

Module Manual

Master of Science (M.Sc.)

Global Technology and Innovation Management & Entrepreneurship

Joint Master

Cohort: Winter Term 2020

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Table of Contents

| Table of Contents | 2 |
|--|----------|
| Program description | 3 |
| Core Qualification | 4 |
| Module M0524: Non-technical Courses for Master | 4 |
| Module M1601: Foundations of Corporate Management (GTIME) | 6 |
| Module M1600: Mindfulness and Communication | 8 |
| Module M1035: Corporate Entrepreneurship & Growth | 10 |
| Module M1599: Technology Management (GTIME) | 13 |
| Module M1602: Product Planning (GTIME) | 15 |
| Module M1590: Project Seminar Innovation Marketing (GTIME) | 17 |
| Module M0855: Marketing (Sales and Services / Innovation Marketing) | 19 |
| Module M1358: Global Innovation Management | 21 |
| Module M1034: Technology Entrepreneuship | 23 |
| Module M1381: Agile Design Methods | 26 |
| Module M1360: Innovation Management | 28 |
| Specialization Entrepreneurial Engineering (AAU) | 30 |
| Module M1388: Entrepreneurial Practice (AAU) | 30 |
| Module M1389: Agile Business Navigation (AAU) | 32 |
| Module M1392: Corporate Entrepreneurship (AAU) | 33 |
| Module M1391: Understanding Entrepreneurship (AAU) | 34 |
| Module M1393: Applied Business Modelling (AAU) | 35 |
| Module M1390: Design Based Innovation (AAU) | 36 |
| Module M1394: Market, Resources and Entrepreneurship (AAU) | 37 |
| Specialization Global Design Management (UoS) | 38 |
| Module M1386: Global Design (UoS) | 38 |
| Module M1385: Design Management (UoS) | 40 |
| Module M1387: Postgraduate Group Project (UoS) | 41 |
| Specialization Opportunities and Challenges for Innovation Management in New Economic | 40 |
| Powerhouses (MU) | 42 |
| Module M1369: Business Modelling and System Dynamics (MU) | 42 |
| Module M1370: Management in Practice (MU) | 43 |
| Module M1371: Technology and Business (MU) | 44 |
| Module M1372: Technology, Creativity and Innovation (MU) | 45 |
| Module M1373: Business Research Methods (MU) | 46 |
| Module M1374: Seminar Series on Innovation Management (MU) Module M1375: Foreign Language Hindi (MU) | 47 |
| | |
| Specialization Technology and Innovation Management in Japan (APU) | 49 |
| Module M1355: Information Technology Management (APU) | 49 |
| Module M1356: Technology Management (APU) | 51 |
| Module M1357: Japanese Corporations and Asia Pacific (APU) Module M1362: Major Seminar (APU) | 53 55 |
| Module M1362: Major Seminar (APO) Module M1366: Management in Asia and Japan (APU) | 56 |
| Module M1350: Management in Asia and Japan (AFO) Module M1359: National Innovation Systems (APU) | 57 |
| Module M1332: National Innovation Systems (APU) Module M1361: Quality and Operations Management (APU) | 58 |
| Madula M1262, Project Management (ADU) | 60 |
| Module M1269: Management of Jananese Eamily Pusinesses (APU) | 61 |
| Module M1366. Management of Japanese Farmy Businesses (AFO) Module M1367: Supply Chain Management (APU) | 62 |
| Module M1364: Japanese J (APLI) | 63 |
| Specialization Technology Venturing (KTU) | 64 |
| Madula M1276, Ducinaça Madala Innovation (KTII) | 64 |
| Module M1377: Technology Venturing (KTU) | 66 |
| Module M1378: Business Valuation and Investor Relations Management (KTU) | 67 |
| Module M1370: Creative Decision Making (KTU) | 68 |
| Module M1373. Clearly Decision Making (KTO) Module M1380: International Management (KTU) | 69 |
| Module M1382: Intellectual Property Management (KTU) | 70 |
| Module M1383: Management of Organizational Networks (KTU) | 71 |
| Thesis | 72 |
| Module M-003: Master Thesis | 72 |
| | |

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).

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.

| Module Responsible | Dagmar Richter |
|--------------------------------------|--|
| Admission Requirements | None |
| Recommended Previous | None |
| 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, |

| Entrepreneursnip | |
|---------------------|--|
| 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 successful manner, institute devices on former of consciention and confliction is constitute to the second the |
| | 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 | Personal Competences (Social Skills) |
| Social competence | |
| | 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 reaction their own profession and p |
| | 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 | |
| cical points | |

Courses

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

| Module M1601: Found | dations of Corporate Managem | ent (GTIME) | | |
|------------------------------------|---|--|----------|----|
| Courses | | | | |
| Title | | Тур | Hrs/wk | СР |
| Foundations of Business Manageme | ent (L2417) | Project Seminar | 2 | 3 |
| Foundations of International Manag | jement (L2419) | Project Seminar | 2 | 3 |
| Module Responsible | Dr. Stephan Buse | | | |
| 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 I | Lecture 56 | | |
| Credit points | 6 | | | |
| Course achievement | None | | | |
| Examination | Written elaboration | | | |
| Examination duration and | 90 Minuten | | | |
| scale | | | | |
| Assignment for the | Global Innovation Management: Core Qualific | ation: Elective Compulsory | | |
| Following Curricula | Global Technology and Innovation Manageme | ent & Entrepreneurship: Core Qualification: Co | mpulsory | |

| Course L2417: Foundations of | of Business Management |
|------------------------------|---|
| Тур | Project Seminar |
| Hrs/wk | 2 |
| СР | 3 |
| Workload in Hours | Independent Study Time 62, 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. |
| Literature | 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 | Jonnson et al.: Strategisches Management - Eine Einfuhrung: 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 L2419: Foundations of | of International Management |
|------------------------------|--|
| Тур | Project Seminar |
| Hrs/wk | 2 |
| СР | 3 |
| Workload in Hours | Independent Study Time 62, 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 | |

| 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 have | reached the following learning results | | |
| Professional Competence | | | | |
| Knowledge | | | | |
| Skills | | | | |
| Personal Competence | | | | |
| Social Competence | | | | |
| Autonomy | | | | |
| Workload in Hours | Independent Study Time 96, Study Time in L | ecture 84 | | |
| Credit points | 6 | | | |
| Course achievement | None | | | |
| Examination | Written elaboration | | | |
| Examination duration and | 90 Minuten | | | |
| scale | | | | |
| Assignment for the | Global Technology and Innovation Managem | ent & Entrepreneurship: Core Qualification: Co | ompulsory | |
| Following Curricula | | | | |

| Course L2421: Mindfulness a | nd Leadership |
|-----------------------------|---|
| Тур | Project Seminar |
| Hrs/wk | 2 |
| CP | 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 |
| Content | 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. |
| Literature | 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 | on 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. |

| ourses | | | | |
|-----------------------------------|---|--|---|------------------|
| itle | | Тур | Hrs/wk | СР |
| prporate Entrepreneurship in the | Digital Age (L1281) | Seminar | 3 | 4 |
| ntrepreneurial Finance (L1282) | | Seminar | 2 | 2 |
| Module Responsible | , | | | |
| Admission Requirements | | | | |
| Kecommended Previous Knowledge | "Technology Entrepreneurship" is highly | s and finance obtained in the compulsory recommended. | y modules and particip | ation in the mod |
| Educational Objectives | After taking part successfully, students h | ave reached the following learning results | | |
| Professional Competence | | | | |
| Knowledge | Wissen (subject-related knowledge and u | nderstanding): | | |
| | understand similarities and different | nces between corporate and start-up entrepr | reneurshin | |
| | recognize the distinct nature and international organizations understand the different forms of or | d specific elements of corporate entrepres corporate entrepreneurship styles, attitudes and preferences for corporat ifferent valuation methods | neurship in the context | |
| | understand the pros and cons of discussion | ifferent growth and exit options | | |
| Skills | Fertigkeiten (subject-related skills): | | | |
| | organizations • assess the environment within estated • identify creative ways to overcome • be able to formulate corporate objection • evaluate entrepreneurial opportun | ncial contracts is of financial compensation duct financial negotiations and exit options | nstraints for entreprene d companies | |
| | analytical skills | | | |
| Workload in Hours | Independent Study Time 110, Study Time | e in Lecture 70 | | |
| Credit points | 6 | | | |
| Course achievement | | Description | | |
| Examination | Yes 20 % Group discussion | | | |
| | Subject theoretical and practical work | | | |
| Examination duration and scale | Presentations and case study work | | | |
| Assignment for the | Global Innovation Management: Core Qua | alification: Elective Compulsory | | |
| Following Curricula | Global Technology and Innovation Manag International Management and Engineeri | ement & Entrepreneurship: Core Qualificatio ng: Specialisation I. Electives Management: E t: Specialisation Management: Elective Comp | Elective Compulsory | |

| Course L1281: Corporate Entrepreneurship in the Digital Age | |
|---|---------|
| Тур | Seminar |
| Hrs/wk | 3 |
| | 1 |

| | Independent Study Time 78, Study Time in Lecture 42 |
|------------|---|
| | Dr. Hannes Lampe |
| Language | |
| Cycle | |
| - | This is a 4 ECTS course as part of the module "Corporate Entrepreneurship & Growth". Emerging paradigms of digital technology |
| | such as industrial internet of things, blockchain, artificial intelligence, digital fabrication and 3D printing, are fundamenta transforming the competitive landscape and the nature of many companies in a wide range of industri- |
| | Where digital technologies become critical to the development of new products, services and business models, incumbe |
| | corporations in traditional industries suddenly face entirely new competition from purely digital players. Building a corpora |
| | capability to master digital innovation becomes a key success factor to establish and maintain market leadership. T |
| | course places students into the role of corporate managers, who need to understand the strategic implications of new digi |
| | technology, identify organizational strengths and barriers to (re-) act, design new business models that may fundamentally cla with existing ones, and organize broader digital transformation initiatives. We will draw upon recent international scientific findir |
| | from the context of digital corporate venturing. Upon completion of this course, students will be able to: |
| | Derive industry-specific implications of digital technologies for value creation and capture. |
| | Identify organizational sources of corporate (non-) responsiveness to digital opportunities. Contribute to the design and implementation of digitally enhanced business models. |
| | Evaluate options of organizational transformation by corporate venturing as well as open platforms and ecosystems. |
| | Contribute to organization and leadership of corporate-wide digital transformation initiatives. |
| | Course language is English. In this course, value is created interactively, that means it mainly consists of student presentation |
| | and group discussions, structured and moderated by the instructors. This in turn requires that everyone has prepared the relevant |
| | materials in advance of each session. Please devote significant time to do so! All the great ideas relevant to this cou |
| | topic cannot be found in a single textbook. Therefore, we have curated an up-to-date and colourful mix of materials in two different |
| | kinds: (1) academic & managerial papers, and (2) case studies. Please refer to the detailed course schedule for the assignment |
| | paper presentations and case memos to specific participants. For your paper presentations you may also include addition |
| | references, whereas the case memos should only be based on the cases. Even if you are not assigned a specific paper or case, y |
| | should have prepared core materials to participate in the discussion. For the common team project, we cooperate with r |
| | companies from the Hamburg metropolitan region to contribute to their strategic intent of embracing new digital technology. |
| | Student assessment will be based on four aspects with the following grading scheme: |
| | 20%: Participation in class discussions on papers and case studies. |
| | 20%: One paper presentation of 20 minutes length plus 10 minutes discussion: 20%. 20%: Two case memos (2 pages) that summarize in bullet points your answers to assigned questions for two case studies. |
| | 40%: Final project on a real digital transformation project delivered as 30 minutes presentation plus 15 minutes discussion |
| | teams of four students. |
| Literature | Agrawal, Ajay, Joshua Gans and Avi Goldfarb. "The Simple Economics of Machine Intelligence". Harvard Busine |
| | Review, November (2016). |
| | Amit, Raphael, and Christoph Zott. "Creating Value Through Business Model Innovation" MIT Sloan Management Review 53 |
| | (2012): 41-49. |
| | · Birkinshaw, Julian, Alexander Zimmermann, and Sebastain Raisch. "How Do Firms Adapt to Discontinuous Change?" Califorr |
| | Management Review, 58.4 (2016): 36-58. |
| | · Bower, Joseph L., and Clayton M. Christensen. "Disruptive technologies: Catching the wave." Harvard Business Review, 73 |
| | (1995): 43-53. |
| | Campbell, A., Birkinshaw, J., Morrison, A., & van Basten Batenburg, R. "The future of corporate venturing: companies undertaventuring for a variety of reasons." MIT Sloan Management Review 45.1 (2003): 30-38. |
| | Casadesus-Masanell, Ramon, and Joan E. Ricart. "How to Design A Winning Business Model" Harvard Business Review Janua |
| | February (2011): 1-9. |
| | Chakravorti, Bhaskar. "A Note on Corporate Entrepreneurship: Challenge or Opportunity?" HBS Case: 9-810-145 (2010). Charitou, Constantinos D., and Constantinos C. Markides. "Responses to disruptive strategic innovation." N |
| | Sloan Management Review, 44.2 (2002): 55-64. |
| | Chesbrough, Henry W. "Making Sense of Corporate Venture Capital" Harvard Business Review, March (2002): 4-11. Christensen, Clayton M. and Stephen P. Kaufman."Assessing Your Organization's Capabilities: Resources, Processes, a |
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| | |
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Review, May (2016).

Vermeulen, Freek. "How Acquisitions Can Revitalize Companies." MIT Sloan Management Review, 46.4 (2005): 45-51.

• Wolcott, Robert C., and Michael J. Lippitz. "The four models of corporate entrepreneurship." MIT Sloan Management Review, 49.1 (2007): 75-82.

· Zilis, Shivon, and James Cham. "The Competitive Landscape for Machine Intelligence". Harvard Business Review, November (2016).

| Course L1282: Entrepreneur | ial Finance |
|----------------------------|--|
| Тур | Seminar |
| Hrs/wk | 2 |
| CP | 2 |
| Workload in Hours | Independent Study Time 32, Study Time in Lecture 28 |
| Lecturer | Dr. Hannes Lampe |
| Language | EN |
| Cycle | WiSe |
| | This course examines the elements of entrepreneurial finance, focusing on technology-based start-up ventures and the early stages of company development. The course addresses key questions relevant to both startup and corporate entrepreneurs: 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? This course will focus on the finance principles related to the risk & return of venture capital, the valuation of high growth companies, the capital structure specific to venture capital-backed companies, and investment decisions under uncertainty. Three main topics will be covered: (1) New business opportunity valuation: Most time will be devoted to the understanding and application of tools to valuate early stage business opportunities and high-growth companies versus mature companies. Standard tools for financial and liquidity planning as well as discounted cash flow valuation will be applied to startup situations. Furthermore, the venture capital method, analysis of comparables and the real options approach to valuation are introduced. (2) Financing and employment contracts: We will discuss the main sources of financing that entrepreneurs can choose from. Particular emphasis will be put on venture capital funds and their fund raising process. The design of financial contracts will be analyzed in terms of addressing information and incentive problems in uncertain environments. Employment contracts will be motivated as a compensation device to attract and retain key employees. (3) Growth and exit strategies: We will discuss entrepreneurs' option to grow or exit. Liquidity events are considered such as initial public offering, sale or merger as compared to independent growth as a private company. We also examine later stage options such as mezzanine financing and buy-outs and the specifics of international growth. Guest lecturers will present the latest trends in these ar |
| Literature | Metrick, Andrew, and Ayako Yasuda. Venture Capital and the Finance of Innovation. Wiley, 2010. Leach, J., and Ronald Melicher. Entrepreneurial finance. Cengage Learning, 2011. Selected cases will be made available during class. |

| ourses | | | | | |
|---|---|--|----------------------------|-----------------|--------------------|
| itle | | Тур | | Hrs/wk | СР |
| echnology Management (GTIME) (I | | | t-/problem-based Learning | 3 2 | 3 3 |
| echnology Management Seminar (| | Plojec | t-/problem-based Learning | Z | 3 |
| Module Responsible | | | | | |
| Admission Requirements | | | | | |
| | Bachelor knowledge in business manager | nent | | | |
| Knowledge | | en e | | | |
| - | After taking part successfully, students ha | ave reached the following lear | ning results | | |
| Professional Competence | | | | | |
| Knowledge | Students will gain deep insights into: | | | | |
| | International R&D-Management | | | | |
| | Technology Timing Strategies | | | | |
| | Technology Strategies and Lifecycl | e Management (I/II) | | | |
| | Technology Intelligence and Planni | ng | | | |
| | Technology Portfolio Management | | | | |
| | | | | | |
| | Technology Portfolio Methodology Technology Acquisition and Evaluity | ation | | | |
| | Technology Acquisition and Exploit | ation | | | |
| | IP Management | | | | |
| | Organizing Technology Development | | | | |
| | Technology Organization & Manage | ement | | | |
| | Technology Funding & Controlling | | | | |
| Skills | The course aims to: | | | | |
| | | | | | |
| | Develop an understanding of the ir | | | | |
| | Equip students with an underst | | its of lectinology Man | agement (str | ategic, operation |
| | organizational and process-relatedFoster a strategic orientation to pr | | vation process as well as | Technology I | Management and |
| | importance for corporate strategy | roblem-solving within the hint | wation process as well as | s lecillology i | anagement and |
| | Clarify activities of Technology Mar | nagement (e.g. technology so | urcing maintenance and e | exploitation) | |
| | Strengthen essential communicat | | | | and financial issu |
| | concerning Technology-, Innovation | | | | |
| | Basic concepts, models and tools, r | relevant to the management of | of technology. R&D and in | novation | |
| | Innovation as a process (steps, act | | | | |
| | | - / | | | |
| Personal Competence | | | | | |
| Social Competence | Interact within a team | | | | |
| | Raise awareness for globabl issues | | | | |
| | | | | | |
| Autonomy | Gain access to knowledge sources | | | | |
| | Discuss recent research debates in | the context of Technology an | d Innovation Managemen | t | |
| | Develop presentation skills | | | | |
| | Discussion of international cases in | n R&D-Management | | | |
| Workload in Hours | Independent Study Time 110, Study Time | in Lecture 70 | | | |
| Credit points | | | | | |
| Course achievement | | | | | |
| | Written exam | | | | |
| Examination Examination duration and | | | | | |
| Examination duration and scale | 30 11111 | | | | |
| | | | | | |
| | Global Technology and Innovation Manag | ement & Entrepropourching C | re Qualification: Computer | 00/ | |

| Course L2423: Technology M | lanagement (GTIME) |
|----------------------------|--|
| 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, 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 12424. To she also w | |
|-----------------------------|---|
| Course L2424: Technology M | lanagement 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. 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. |
| | |

| | ct Diagning (CTIME) | | | |
|------------------------------------|---|--------------------------------------|--------|----|
| Module M1602: Produ | ct Planning (GTIME) | | | |
| Courses | | | | |
| Title | | Тур | Hrs/wk | СР |
| Product Planning (GTIME) (L2425) | | Project-/problem-based Learning | 3 | 3 |
| Product Planning Seminar (GTIME) (| L2426) | Project-/problem-based Learning | 2 | 3 |
| Module Responsible | Prof. Cornelius Herstatt | | | |
| Admission Requirements | None | | | |
| | Good basic-knowledge of Business Administration | | | |
| Knowledge | | | | |
| - | After taking part successfully, students have reached the follo | owing learning results | | |
| Professional Competence | | | | |
| Knowledge | Students will gain insights into: | | | |
| | 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 | | | |
| 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 & Entreprene | eurship: Core Qualification: Compuls | ory | |
| Following Curricula | | | | |

| Course L2425: Product Plann | ing (GTIME) |
|-----------------------------|--|
| 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, 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) | | | | |
| | - · · | stomers, market definition and market growth | | | |
| | select the appropriate approach 1 | or leading a competitive analysis | | | |
| | explain the key market-related is | sues (strengths and weaknesses) of technology-bas | sed business opport | unities | |
| Skills | Students are capable of | | | | |
| | | | | | |
| | | inventions and innovative business ideas by using | | | |
| | Investigating whether a market is and the marketing mix. | investigating whether a market is still open for a given innovation and develop a first concept for the market entry strategy | | | |
| | - | n (primary and secondary market data). | | | |
| | • | erpreting the gathered data and giving well for | unded recommenda | tions based on t | |
| | findings. | | | | |
| | | ludes the literature background as well as the deve | elopment of their m | ethods, their resul | |
| | conclusions and recommendation | | | | |
| Personal Competence | | | | | |
| Social Competence | Students are able to | | | | |
| | assess possible consequences of | their own decisions. | | | |
| | define required tasks to find a so | | | | |
| | make elaborated decisions in an | real-world innovation context. | | | |
| | assess their own performance in | a team. | | | |
| Autoromy | The work in teams over an entire co | nester and the interaction with professionals, and | norts and project | arthers outside t | |
| Αυτοποπιγ | | nester and the interaction with professionals, ex their competenece to access the required inforr | | | |
| | founded decisions with a high level of tr | | nation that is field | eu ior making we | |
| | iounded decisions with a high level of th | | | | |
| Workload in Hours | Independent Study Time 124, Study Tim | ne in Lecture 56 | | | |
| Credit points | 6 | | | | |
| Course achievement | None | | | | |
| Examination | Subject theoretical and practical work | | | | |
| Examination duration and | approx. 40 pages written elaboration, p | resentation, oral participation | | | |
| scale | | | | | |
| Assignment for the | Global Technology and Innovation Mana | gement & Entrepreneurship: Core Qualification: Co | mpulsory | | |
| Following Curricula | | | | | |

| 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 4 |
| PBL Marketing of Innovations (L086 | | 1 | 2 |
| Module Responsible | | | |
| Admission Requirements | | | |
| Recommended Previous | | | |
| Knowledge | Module International Business | | |
| | Basic understanding of business administration principles (strategic planning, decision) | on theory, p | roject manageme |
| | international business) | | |
| | Bachelor-level Marketing Knowledge (Marketing Instruments, Market and Competitor Strat | egies, Basics | of Buying Behavio |
| | Unerstanding the differences beweetn B2B and B2C marketing | | |
| | Understanding of the importance of managing innovation in global industrial markets | | |
| | Good English proficiency; presentation skills | | |
| Educational Objectives | After taking part successfully, students have reached the following learning results | | |
| Professional Competence | | | |
| Knowledge | | | |
| 5 | | | |
| | Specific characteristics in the marketing of innovative poroducts and services | | |
| | Approaches for analyzing the current market situation and the future market development The apple of information of the set of the se | ĩ | |
| | The gathering of information about future customer needs and requirements | | |
| | Concepts and approaches to integrate lead users and their needs into product and service Approaches and tools for onsuring sustamer orientation in the development of new product | | |
| | Approaches and tools for ensuring customer-orientation in the development of new produce Marketing mix elements that take into consideration the specific requirements and chall | | |
| | Marketing mix elements that take into consideration the specific requirements and chain services | lenges of find | Juative products a |
| | Pricing methods for new products and services | | |
| | The organization of complex sales forces and personal selling | | |
| | Communication concepts and instruments for new products and services | | |
| Chille | | | |
| SKIIIS | Based on the acquired knowledge students will be able to: | | |
| | Design and to evaluate decisions regarding marketing and innovation strategies | | |
| | Analyze markets by applying market and technology portfolios | | |
| | Conduct forecasts and develop compelling scenarios as a basis for strategic planning | C II I | |
| | Translate customer needs into concepts, prototypes and marketable offers and successions and successions. | rully apply ad | vanced methods f |
| | customer-oriented product and service development Use adequate methods to foster efficient diffusion of innovative products and services | | |
| | Ose adequate methods to loster emclent diffusion of innovative products and services Choose suitable pricing strategies and communication activities for innovations | | |
| | Make strategic sales decisions for products and services (i.e. selection of sales channels) | | |
| | Apply methods of sales force management (i.e. customer value analysis) | | |
| | • Apply methods of sales force management (i.e. customer value analysis) | | |
| Personal Competence | | | |
| Social Competence | The students will be able to | | |
| | have fruitful discussions and exchange arguments | | |
| | have fruitful discussions and exchange arguments develop original results in a group | | |
| | develop original results in a group present results in a clear and concise way | | |
| | carry out respectful team work | | |
| | | | |
| Autor | The students will be able to | | |
| Autonomy | The students will be able to | | |
| | Acquire knowledge independently in the specific context and to map this knowledge on ot | her new comp | olex problem fields |
| | Consider proposed business actions in the field of marketing and reflect on them. | | |
| | | | |
| | Independent Study Time 110, Study Time in Lecture 70 | | |
| Credit points | | | |
| | | | |
| | Subject theoretical and practical work | | |
| Examination duration and | | | |
| scale | | | |
| • | | • | |
| Following Curricula | International Management and Engineering: Specialisation I. Electives Management: Elective Cor | npulsory | |
| | Mechanical Engineering and Management: Specialisation Management: Elective Compulsory | | |
| | | | |
| | Biomedical Engineering: Specialisation Artificial Organs and Regenerative Medicine: Elective Com | npulsory | |
| | Biomedical Engineering: Specialisation Artificial Organs and Regenerative Medicine: Elective Com Biomedical Engineering: Specialisation Implants and Endoprostheses: Elective Compulsory Biomedical Engineering: Specialisation Medical Technology and Control Theory: Elective Compuls | | |

| Course L2009: Marketing of I | Innovations |
|------------------------------|--|
| | Lecture |
| Hrs/wk | 4 |
| СР | 4 |
| Workload in Hours | Independent Study Time 64, Study Time in Lecture 56 |
| | Prof. Christian Lüthje |
| Language | |
| Cycle | sose I. Introduction |
| content | |
| | 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 |
| СР | 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 Managing Global Innovation (L1933 Managing Global Innovation - Semii | | Typ Project-/problem-based Learning Seminar | Hrs/wk 3 2 | CP 3 3 |
| Module Responsible | | Seminar | Z | 5 |
| Admission Requirements | None | | | |
| - | Basic knowledge of innovation management and globalisa | tion | | |
| Knowledge | | | | |
| Educational Objectives | After taking part successfully, students have reached the | following learning results | | |
| Professional Competence Knowledge | Students learn about economic theories and models that | t underlie innovation management in | an increasir | gly globalized world |
| | Particular attention is paid to emerging countries such a America, as they are becoming increasingly important as The following theories/models will be dealt with in the mo | innovation locations and sales market | | |
| | Lead Market Theory Frugal Innovations Open Innovation Approach Transnational Model Internationalisation of Research & Development | | | |
| Skills | By means of the theories and models discussed, students an economic as well as a business perspective. Furth innovation strategies and innovation locations. | | | - |
| Personal Competence | | | | |
| Social Competence | After successful completion of the module, students can addition, they can conduct subject-specific discussions or results of their work in accordance with the requirements | issues of global innovation manageme | | |
| Autonomy | Upon successful completion of the module, students can conduct case studies on global innovation management issues independently and/or as part of a team. They are able to independently select and apply adequate analysis tools and to reflect their analysis results self-critically. | | | |
| Workload in Hours | Independent Study Time 110, Study Time in Lecture 70 | | | |
| Credit points | 6 | | | |
| Course achievement | None | | | |
| Examination | Written exam | | | |
| Examination duration and scale | 90 min | | | |
| Assignment for the Following Curricula | Global Technology and Innovation Management & Entrepr | eneurship: Core Qualification: Compuls | ory | |

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

| 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 | | | | |
|--|---|--|-------------------------|---------------------|
| Fitle Creation of Business Opportunities Entrepreneurship (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 compulse pursuit of new business opportunities either in corporate or startup | | erest in new t | echnologies and |
| Educational Objectives | After taking part successfully, students have reached the following | learning results | | |
| Professional Competence | | - | | |
| Knowledge | Wissen (subject-related knowledge and understanding): develop a working knowledge and understanding of the entr understand the difference between a good idea and scalable understand the process of taking a technology idea and find understand the components of business models understand the components of business opportunity assess | e business opportunity ing a high-potential commerci | al opportunity | 1 |
| 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 bu prepare business opportunity assessment create and verify a plan for gathering resources such pitch a business opportunity to your classmates and t | nypotheses isiness opportunities as talent and capital | portunity | |
| Personal Competence | | | | |
| | Sozialkompetenz (Social Competence): 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 | | | |
| scale | 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 |
| 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 presentation after 5 weeks: 30% • Startup validation presentation after 10 weeks: 30% • Final startup pitches after 13 weeks: 40% |
| 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 | | | | |
|------------------------------|---|-------------------------------------|------------------------|----------------------|
| 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 reached t | ne following learning results | | |
| Professional Competence | | | | |
| Knowledge | The students know: | | | |
| | Different methods from the field of design m | anagement and can explain the | m and their importa | nce for agile proje |
| | management. | | | lice for agrie proje |
| | The distinction between linear and integrative distinction | esian methods. | | |
| | Appropriate software for supporting the process | | | |
| | The interrelation between working culture and a | oplied design methods. | | |
| | The theoretical construct behind human-centered | | ogies. | |
| | The difference between high and low resolution | prototyping and software to realize | e digital Prototyps. | |
| Skills | The students are able: | | | |
| | | | | |
| | to decide on an appropriate method to approache the second second | | cognize the differenc | e between aglie a |
| | iterate of methodologies and water fall project n | | or the implementatio | n of an idea in an |
| | They apply the relevant methods for the fuzzy teams (e.g. Scrum). | front end (e.g. Design Thinking) | or the implementatio | in or an idea in ag |
| | to self-moderate the Design Thinking process in | their team | | |
| | to use appropriate methods to create a commor | | mental teams | |
| | | | | i- |
| | 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 supporting the | process. | | |
| Personal Competence | | | | |
| Social Competence | The students are able: | | | |
| | to work successfully and respectfully in a multic | lltural team | | |
| | to reach the expected results within their team | | | |
| | to engage in scientific and practitioner discussio | | cifically design manag | jement. |
| | to present the results of the work to others in an | | | |
| | | | | |
| Autonomy | The students are able: | | | |
| | to carry out an innovation process for any given | challenge independently, individu | ally or in a team. | |
| | • to solve complex problems independently or | n a team, selecting and using | appropriate analog | design methods ar |
| | software. | | | |
| | to gather knowledge regarding a challenge inde | pendently and apply their knowled | lge in problem-solving | J. |
| | to critically reflect on the results of the work and | their own behavior in the team. | | |
| | | | | |
| | Independent Study Time 110, Study Time in Lecture 70 | | | |
| Credit points | | | | |
| Course achievement | | | | |
| Examination | Written elaboration | | | |
| Examination duration and | Written Assignment | | | |
| scale | | | | |
| Assignment for the | Global Technology and Innovation Management & Entr | epreneurship: Core Qualification: E | Elective Compulsory | |
| Following Curricula | | | | |

| 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. Sandra-Luisa Moschner |
| 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 o 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 | Course 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. Sandra-Luisa Moschner | |
| Language | EN | |
| Cycle | SoSe | |
| Content | See interlocking course | |
| Literature | See interlocking course | |

| Module M1360: Innov | ation Management | | | |
|-----------------------------------|---|-----------------------------|--------|----|
| | - | | | |
| Courses | | | | |
| Title | Тур | | Hrs/wk | СР |
| Managing Innovations (L1937) | | ect-/problem-based Learning | 3 | 3 |
| Managing Innovations - Seminar (L | | inar | 2 | 3 |
| Module Responsible | Prof. Cornelius Herstatt | | | |
| Admission Requirements | None | | | |
| Recommended Previous | Basic knowledge in business administration | | | |
| Knowledge | | | | |
| Educational Objectives | After taking part successfully, students have reached the following lea | arning results | | |
| Professional Competence | | | | |
| Knowledge | | | | |
| Skills | | | | |
| Personal Competence | | | | |
| Social Competence | | | | |
| Autonomy | | | | |
| 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 & Entrepreneurship: (| Core Qualification: Compuls | ory | |
| Following Curricula | | | | |

| Course L1937: Managing Inn | ovations |
|----------------------------|---|
| 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 |
| | 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 for Organization 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: Managing Inn | ovations - Seminar |
|----------------------------|---|
| Тур | Seminar |
| Hrs/wk | 2 |
| СР | 3 |
| Workload in Hours | Independent Study Time 62, Study Time in Lecture 28 |
| Lecturer | Prof. Cornelius Herstatt, Dr. Daniel Jarr |
| 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 Entrepreneurial Engineering (AAU)

The second year of the GTIME program in Aalborg with its specialisation in Entrepreneurial Engineering develops mind-sets and skills that enable students to create and realise new value for people and organisations. The students will bring a variety of different - mostly - technical competences into the programme, and the purpose is to creatively combine these technical competences with business savvy in order to create new value. From idea to reality - from thought to action.

Business creation and business development competences are keys to the global business arena of the future. Furthermore, such competences are a requisite for a range of knowledge-based organisations, from large to small and medium-sized private companies, start-up companies, as well as public services. Through the study programme, students have the opportunity to acquire the tools, methods, knowledge of processes, as well as an organisational and managerial understanding of innovation and entrepreneurship that will allow them to make a difference.

The semesters within the specialisation in Entrepreneurial Engineering are based on three generic activities, which are part of the process of creating new value: Discovery, Incubation and Acceleration. Discovery explores new opportunities, Incubation is about developing and testing new concepts, and Acceleration deals with realising new value. All three activities are incorporated in the GTIME students' Master's thesis as they can add whichever perspective they might find interesting to the project.

Another core competency of Aalborg University is its problem based project approach which is applied in different in group works. Students will be working closely with peers most of the time, and they are required to be present at the university on a daily basis and spend most of their day there. "The Aalborg Model for Problem Based Learning" is a method which is highly recognised internationally, and the university is host to a successful UNESCO chair in Problem Based Learning in Engineering Education and a Centre for PBL and Sustainability approved by UNESCO.

As a G-TIME graduate with a specialisation in Entrepreneurial Engineering, you have a variety of job options. Your skill profile is attractive for many types of companies and organisations in need of business development, including large private and public companies, small and medium-sized companies, start-up companies, as well as municipalities, regions and governmental agencies. Future job titles of successful graduates may be project manager, entrepreneur/CEO/CTO, business developer, process consultant, innovations manager or product and business developer.

| Courses | | |
|--------------------------------------|---|--|
| ïtle | Typ Hrs/wk CP | |
| ntrepreneurial Practice (AAU) (L19 | Project-/problem-based Learning 15 15 | |
| Module Responsible | NN | |
| Admission Requirements | None | |
| Recommended Previous | General business knowledge. | |
| Knowledge | | |
| | After taking part successfully, students have reached the following learning results | |
| Professional Competence Knowledge | The student must be able to: | |
| | Describe and understand general capabilities needed for organisations to become and stay innovative in their busine development. | |
| | • Describe and understand general abilities and conditions needed for people to become and stay entrepreneurial. | |
| | Describe and understand tools and methods for supporting entrepreneurial processes with an emphasis on discovery processe | |
| | • Describe and understand theories of creative methodologies and creative mind-set (dedicated ressources will be allocated the initiation and sustaining of the objective). | |
| Skills The student must be able to: | | |
| | • Identify and analyse a need or problem using various theoretical perspectives related to a business development process. | |
| | Use creative theory and methods in discovery processes. | |
| | Be able to assess and analyse the entrepreneurial/innovation capabilities of the unit of analysis in focus. | |
| | • The student must be able to identify possible conceptual solutions or development directions for solutions by using theory a creative skills. | |
| Personal Competence | | |
| Social Competence | | |
| Autonomy | The student must be able to: | |
| | Approach an empirical field and identify a problem or need related to innovative and/or entrepreneurial processes and theor thereof, with an emphasis on discovery. | |
| | Contribute to the development of a conceptual solution by relating innovation and/or entrepreneurship theories with empiri- insight. | |
| | • Critically evaluate analysis and solutions. | |
| | • Situational application/facilitation of creative skills (dedicated ressources will be allocated to the initiation and sustaining of t objective). | |
| Workload in Hours | Independent Study Time 240, Study Time in Lecture 210 | |
| Credit points | 15 | |
| Course achievement | None | |
| Examination | Subject theoretical and practical work | |

Examination duration and Examination at Aalborg University

scale Assignment for the Global Technology and Innovation Management & Entrepreneurship: Specialisation Entrepreneurial Engineering (AAU): Compulsory Following Curricula

| ourse L1967: Entrepreneurial Practice (AAU) | | |
|---|---|--|
| Тур | Project-/problem-based Learning | |
| Hrs/wk | 15 | |
| СР | 15 | |
| Workload in Hours | Independent Study Time 240, Study Time in Lecture 210 | |
| Lecturer | NN | |
| Language | EN | |
| Cycle | WiSe | |
| Content | | |
| Literature | | |

| itle | | Тур | Hrs/wk | СР |
|--|---|----------------------------------|----------------------------|---------------------|
| gile Business Navigation (AAU) (L1 | 968) | Lecture | 5 | 5 |
| Module Responsible | NN | | | |
| Admission Requirements | None | | | |
| Recommended Previous | General business knowledge. | | | |
| Knowledge | | | | |
| Educational Objectives | After taking part successfully, students have reached | the following learning results | | |
| Professional Competence | | | | |
| Knowledge | The student will be able to understand the different | positions within agile methods. | | |
| | • The student will be able to understand the underlyi | ng methodology behind innovati | ve agile business process | ses. |
| | • The student will be able to navigate between agile | methods related to different pra | ctical business constrains | |
| The student will be able to understand human and own preferences in order to understand group dynamic within a agile team. | | | within an innovati | |
| <i>Skills</i> • The student will be able to navigate with agile methods related to different business cases and related organization context. | | ess cases and related to | problem areas in | |
| | The student will be able to navigate through inn through a project cycle from idea to finalizing. | ovative agile processes using i | methods to sustain high | innovation capac |
| | • The student will be able to navigate in a multidisci most value to an innovative project cycle. | plinary business environment w | th different business driv | vers in order to br |
| | • The student will be able to set, supply and navigat facilitation of agile processes. | e an interdisciplinary team thro | ugh an innovative projec | t cycle including |
| Personal Competence | | | | |
| Social Competence | | | | |
| , Autonomy | | | | |
| | • The student will enhance his or her personal level o | f innovative businesses navigati | on. | |
| Workload in Hours | Independent Study Time 80, Study Time in Lecture 7 |) | | |
| Credit points | 5 | | | |
| - | None | | | |
| Examination | | | | |
| Examination duration and | Examination at Aalborg University | | | |
| scale | | | | |
| Assignment for the Following Curricula | Global Technology and Innovation Management & E | ntrepreneurship: Specialisation | Entrepreneurial Enginee | ering (AAU): Elect |

| Course L1968: Agile Busines | Course L1968: Agile Business Navigation (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 | | |
| Literature | | |

| Title Typ Hrs/wk Corporate Entrepreneurship (AAU) (L1971) Lecture 5 Module Responsible NN 4dmission Requirements None Recommended Previous General business knowledge. 6 6 Knowledge Educational Objectives After taking part successfully, students have reached the following learning results 7 Professional Competence Knowledge 1 6 6 Knowledge The student must be able to: 6 6 6 • Gain theoretical insight into high impact innovation concepts such as corporate entrepreneurship/(radical) innovation in organizations. 9 0 • Understand the role and impact of corporate entrepreneurship/(radical) innovation in organizations. 9 0 0 Skills 8e able to identify and analyse challenges of corporate entrepreneurship/innovation in organizations. 9 8 | Courses | | | | |
|---|----------------------------------|--|--|-------------------------|----------------------|
| Module Responsible NN Admission Requirements None Recommended Previous General business knowledge. Knowledge General business knowledge. Educational Objectives After taking part successfully, students have reached the following learning results Professional Competence Knowledge Knowledge The student must be able to: • Gain theoretical insight into high impact innovation concepts such as corporate entrepreneurship, disr breakthrough/radical innovation/innovation. • Understand the role and impact of corporate entrepreurship/(radical) innovation in organisations. • Understanding high-impact innovation processes and how to organize them in and around companies. Skills Be able to identify and analyse challenges of corporate entrepreneurship/innovation in organizations. • Be able to choose and use relevant theories, methods, and tools. Personal Competence Social Competence Autonomy • Be able to better navigate in contexts of corporate entrepreneurship/(radical) innovation given the complemergent nature of the processes. • Ability to develop conceptual solutions to the challenges faced by established organisations when atter corporate entrepreneurship/(radical) innovation. Workload in Hours Independent Study Time 80, Study Time in Lecture 70 <th>ïtle</th> <th></th> <th>Тур</th> <th>Hrs/wk</th> <th>СР</th> | ïtle | | Тур | Hrs/wk | СР |
| Admission Requirements Recommended Previous Knowledge None Educational Objectives Knowledge After taking part successfully, students have reached the following learning results Professional Competence Knowledge The student must be able to: • Gain theoretical insight into high impact innovation concepts such as corporate entrepreneurship, disr breakthrough/radical innovation/innovation. • Understand the role and impact of corporate entrepreurship/(radical) innovation in organisations. • Understanding high-impact innovation processes and how to organize them in and around companies. • Be able to identify and analyse challenges of corporate entrepreneurship/innovation in organizations. • Be able to choose and use relevant theories, methods, and tools. Personal Competence Social Competence Autonomy • Be able to audit, evaluate and contribute to design of the innovative capabilities of an established organisation • Be able to better navigate in contexts of corporate entrepreneurship/(radical) innovation given the comple emergent nature of the processes. • Ability to develop conceptual solutions to the challenges faced by established organisations when atter corporate entrepreneurship/(radical) innovation. Workload in Hours Independent Study Time 80, Study Time In Lecture 70 Credit points Course achievement None None Examination Written exam | Corporate Entrepreneurship (AAU) | L1971) | Lecture | 5 | 5 |
| Recommended Previous Knowledge General business knowledge. Educational Objectives After taking part successfully, students have reached the following learning results Professional Competence Knowledge The student must be able to: • Gain theoretical insight into high impact innovation concepts such as corporate entrepreneurship, disr breakthrough/radical innovation/innovation. • Understand the role and impact of corporate entrepreurship/(radical) innovation in organisations. • Understanding high-impact innovation processes and how to organize them in and around companies. Skills • Be able to identify and analyse challenges of corporate entrepreneurship/innovation in organizations. • Be able to identify and analyse challenges of corporate entrepreneurship/innovation in organizations. • Be able to choose and use relevant theories, methods, and tools. Personal Competence Social Competence Autonomy • Be able to audit, evaluate and contribute to design of the innovative capabilities of an established organisation • Be able to better navigate in contexts of corporate entrepreneurship/(radical) innovation given the comple emergent nature of the processes. • Ability to develop conceptual solutions to the challenges faced by established organisations when atter corporate entrepreneurship/(radical) innovation. Workload in Hours Independent Study Time 80, Study Time in Lecture 70 Credit points 5 Course achievemeet None | Module Responsible | NN | | | |
| Knowledge After taking part successfully, students have reached the following learning results Professional Competence The student must be able to: Knowledge Gain theoretical insight into high impact innovation concepts such as corporate entrepreneurship, disr breakthrough/radical innovation/innovation. Understand the role and impact of corporate entrepreurship/(radical) innovation in organisations. Understanding high-impact innovation processes and how to organize them in and around companies. Skills Be able to identify and analyse challenges of corporate entrepreneurship/innovation in organizations. Be able to identify and analyse challenges of corporate entrepreneurship/innovation in organizations. Be able to choose and use relevant theories, methods, and tools. Personal Competence Be able to audit, evaluate and contribute to design of the innovative capabilities of an established organisation and around companies. Be able to better navigate in contexts of corporate entrepreneurship/(radical) innovation given the complement anture of the processes. Autonomy Ability to develop conceptual solutions to the challenges faced by established organisations when atter corporate entrepreneurship/(radical) innovation. Workload in House Independent Study Time 80. Study Time in Lecture 70 Course achievement None Examination duration at Aalborg University | Admission Requirements | None | | | |
| Educational Objectives After taking part successfully, students have reached the following learning results Professional Competence Knowledge Knowledge The student must be able to: • Gain theoretical insight into high impact innovation concepts such as corporate entrepreneurship, disr breakthrough/radical innovation. • Understand the role and impact of corporate entrepreurship/(radical) innovation in organisations. • Understanding high-impact innovation processes and how to organize them in and around companies. Skills Be able to identify and analyse challenges of corporate entrepreneurship/innovation in organizations. • Be able to identify and analyse challenges of corporate entrepreneurship/innovation in organizations. • Be able to choose and use relevant theories, methods, and tools. Personal Competence Social Competence Autonomy • Be able to better navigate in contexts of corporate entrepreneurship/(radical) innovation given the complemergent nature of the processes. • Ability to develop conceptual solutions to the challenges faced by established organisations when atterr corporate entrepreneurship/(radical) innovation. Workload in Hours Independent Study Time 80, Study Time in Lecture 70 Credit points 5 Course achievement None Examination Written exam Examination at Aalborg Un | Recommended Previous | General business knowledge. | | | |
| Professional Competence Knowledge The student must be able to: • Gain theoretical insight into high impact innovation concepts such as corporate entrepreneurship, disr breakthrough/radical innovation/innovation. • Understand the role and impact of corporate entrepreurship/(radical) innovation in organisations. • Understanding high-impact innovation processes and how to organize them in and around companies. <i>Skills</i> • Be able to identify and analyse challenges of corporate entrepreneurship/innovation in organizations. • Be able to identify and analyse challenges of corporate entrepreneurship/innovation in organizations. • Be able to choose and use relevant theories, methods, and tools. Personal Competence <i>Autonomy</i> • Be able to better navigate in contexts of corporate entrepreneurship/(radical) innovation given the complemergent nature of the processes. • Ability to develop conceptual solutions to the challenges faced by established organisations when atterr corporate entrepreneurship/(radical) innovation. Workload in Hours Independent Study Time 80, Study Time in Lecture 70 Credit points 5 5 Course achievement None Examination Examination at Aalborg University | - | | | | |
| Knowledge The student must be able to: Knowledge Gain theoretical insight into high impact innovation concepts such as corporate entrepreneurship, disr breakthrough/radical innovation/innovation. Understand the role and impact of corporate entrepreurship/(radical) innovation in organisations. Understanding high-impact innovation processes and how to organize them in and around companies. Skills Be able to identify and analyse challenges of corporate entrepreneurship/innovation in organizations. Personal Competence Social Competence Social Competence Be able to audit, evaluate and contribute to design of the innovative capabilities of an established organisation Be able to better navigate in contexts of corporate entrepreneurship/(radical) innovation given the complemergent nature of the processes. Ability to develop conceptual solutions to the challenges faced by established organisations when atterr corporate entrepreneurship/(radical) innovation. Workload in Hours Independent Study Time 80, Study Time in Lecture 70 Course achievement None Examination Written exam Examination duration ad Kritten exam | Educational Objectives | After taking part successfully, students have | reached the following learning results | | |
| Gain theoretical insight into high impact innovation concepts such as corporate entrepreneurship, disr breakthrough/radical innovation/innovation. Understand the role and impact of corporate entrepreurship/(radical) innovation in organisations. Understanding high-impact innovation processes and how to organize them in and around companies. Skills Be able to identify and analyse challenges of corporate entrepreneurship/innovation in organizations. Be able to identify and analyse challenges of corporate entrepreneurship/innovation in organizations. Be able to choose and use relevant theories, methods, and tools. Personal Competence Social Competence Autonomy Be able to audit, evaluate and contribute to design of the innovative capabilities of an established organisation Be able to better navigate in contexts of corporate entrepreneurship/(radical) innovation given the complemergent nature of the processes. Ability to develop conceptual solutions to the challenges faced by established organisations when atterr corporate entrepreneurship/(radical) innovation. Workload in Hours Independent Study Time 80, Study Time in Lecture 70 Course achievement None Examination Written exam Examination duration and Examination at Aalborg University | Professional Competence | | | | |
| breakthrough/radical innovation/innovation. • Understand the role and impact of corporate entrepreurship/(radical) innovation in organisations. • Understand the role and impact of corporate entrepreurship/(radical) innovation in organisations. • Understanding high-impact innovation processes and how to organize them in and around companies. Skills • Be able to identify and analyse challenges of corporate entrepreneurship/innovation in organizations. • Be able to identify and analyse challenges of corporate entrepreneurship/innovation in organizations. • Be able to choose and use relevant theories, methods, and tools. Personal Competence Autonomy • Be able to better navigate in contexts of corporate entrepreneurship/(radical) innovation given the complemergent nature of the processes. • Ability to develop conceptual solutions to the challenges faced by established organisations when atterr corporate entrepreneurship/(radical) innovation. Workload in Hours Independent Study Time 80, Study Time in Lecture 70 Credit points 5 Course achievement None Examination duration and Evamination at Aalborg University | Knowledge | The student must be able to: | | | |
| Understand the role and impact of corporate entrepreurship/(radical) innovation in organisations. Understanding high-impact innovation processes and how to organize them in and around companies. Skills Be able to identify and analyse challenges of corporate entrepreneurship/innovation in organizations. Be able to choose and use relevant theories, methods, and tools. Personal Competence Social Competence Autonomy Be able to audit, evaluate and contribute to design of the innovative capabilities of an established organisation Be able to better navigate in contexts of corporate entrepreneurship/(radical) innovation given the complemergent nature of the processes. Ability to develop conceptual solutions to the challenges faced by established organisations when attere corporate entrepreneurship/(radical) innovation. Workload in Hours Independent Study Time 80, Study Time in Lecture 70 Credit points S Course achievement None Examination duration and Written exam Examination duration and Alborg University | | Gain theoretical insight into high impac | t innovation concepts such as corpora | te entrepreneurship, d | isruptive innovation |
| Understanding high-impact innovation processes and how to organize them in and around companies. Skills Be able to identify and analyse challenges of corporate entrepreneurship/innovation in organizations. Be able to choose and use relevant theories, methods, and tools. Personal Competence Social Competence Autonomy Be able to better navigate in contexts of corporate entrepreneurship/(radical) innovation given the complemergent nature of the processes. Ability to develop conceptual solutions to the challenges faced by established organisations when attem corporate entrepreneurship/(radical) innovation. Workload in Hours Independent Study Time 80, Study Time in Lecture 70 Credit points 5 Course achievement None Examination duration and Examination at Aalborg University | | breakthrough/radical innovation/innovation. | | | |
| Understanding high-impact innovation processes and how to organize them in and around companies. Skills Be able to identify and analyse challenges of corporate entrepreneurship/innovation in organizations. Be able to choose and use relevant theories, methods, and tools. Personal Competence Social Competence Autonomy Be able to better navigate in contexts of corporate entrepreneurship/(radical) innovation given the complemergent nature of the processes. Ability to develop conceptual solutions to the challenges faced by established organisations when attem corporate entrepreneurship/(radical) innovation. Workload in Hours Independent Study Time 80, Study Time in Lecture 70 Credit points 5 Course achievement None Examination duration and Examination at Aalborg University | | . Understand the role and impact of corporat | to optroprovide (radical) in povotion in a | rappiantions | |
| Skills • Be able to identify and analyse challenges of corporate entrepreneurship/innovation in organizations. • Be able to choose and use relevant theories, methods, and tools. Personal Competence Social Competence Autonomy • Be able to audit, evaluate and contribute to design of the innovative capabilities of an established organisation • Be able to better navigate in contexts of corporate entrepreneurship/(radical) innovation given the completemergent nature of the processes. • Ability to develop conceptual solutions to the challenges faced by established organisations when attem corporate entrepreneurship/(radical) innovation. Workload in Hours Independent Study Time 80, Study Time in Lecture 70 Credit points 5 Course achievement None Examination duration and Written exam | | Orderstand the role and impact of corporat | le entrepreursnip/(radical) innovation in o | rganisations. | |
| Be able to choose and use relevant theories, methods, and tools. Personal Competence Social Competence Autonomy Be able to audit, evaluate and contribute to design of the innovative capabilities of an established organisation Be able to better navigate in contexts of corporate entrepreneurship/(radical) innovation given the complemergent nature of the processes. Ability to develop conceptual solutions to the challenges faced by established organisations when attern corporate entrepreneurship/(radical) innovation. Workload in Hours Independent Study Time 80, Study Time in Lecture 70 Credit points S Course achievement None Examination duration and Examination duration at Aalborg University | | Understanding high-impact innovation proc | esses and how to organize them in and a | round companies. | |
| Be able to choose and use relevant theories, methods, and tools. Personal Competence Social Competence Autonomy Be able to audit, evaluate and contribute to design of the innovative capabilities of an established organisation Be able to better navigate in contexts of corporate entrepreneurship/(radical) innovation given the comple emergent nature of the processes. Ability to develop conceptual solutions to the challenges faced by established organisations when attem corporate entrepreneurship/(radical) innovation. Workload in Hours Independent Study Time 80, Study Time in Lecture 70 Credit points Social Course achievement None Examination duration and Examination duration at Aalborg University | Skills | • Be able to identify and analyse challenges of corporate entrepreneurship/innovation in organizations | | | |
| Personal Competence Social Competence AutonomyBe able to audit, evaluate and contribute to design of the innovative capabilities of an established organisation • Be able to better navigate in contexts of corporate entrepreneurship/(radical) innovation given the completence emergent nature of the processes.• Ability to develop conceptual solutions to the challenges faced by established organisations when attem corporate entrepreneurship/(radical) innovation.• Morkload in HoursIndependent Study Time 80, Study Time in Lecture 70• Credit points5• Course achievementNone• Examination duration andExamination at Aalborg University | SKIIS | | | in organizations. | |
| Social Competence Autonomy • Be able to audit, evaluate and contribute to design of the innovative capabilities of an established organisation • Be able to better navigate in contexts of corporate entrepreneurship/(radical) innovation given the complement nature of the processes. • Ability to develop conceptual solutions to the challenges faced by established organisations when attem corporate entrepreneurship/(radical) innovation. Workload in Hours Independent Study Time 80, Study Time in Lecture 70 Credit points 5 Course achievement None Examination Written exam Examination duration and Examination at Aalborg University | | Be able to choose and use relevant theories | s, methods, and tools. | | |
| Autonomy • Be able to audit, evaluate and contribute to design of the innovative capabilities of an established organisation • Be able to better navigate in contexts of corporate entrepreneurship/(radical) innovation given the complement of the processes. • Ability to develop conceptual solutions to the challenges faced by established organisations when attent corporate entrepreneurship/(radical) innovation. Workload in Hours Independent Study Time 80, Study Time in Lecture 70 Credit points 5 Course achievement None Examination duration and Examination duration at Aalborg University | Personal Competence | | | | |
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| emergent nature of the processes. • Ability to develop conceptual solutions to the challenges faced by established organisations when attem corporate entrepreneurship/(radical) innovation. Workload in Hours Independent Study Time 80, Study Time in Lecture 70 Credit points 5 Course achievement None Examination Written exam Examination duration and Examination at Aalborg University | Autonomy | • Be able to audit, evaluate and contribute to | o design of the innovative capabilities of a | n established organisat | ion. |
| emergent nature of the processes. • Ability to develop conceptual solutions to the challenges faced by established organisations when attem corporate entrepreneurship/(radical) innovation. Workload in Hours Independent Study Time 80, Study Time in Lecture 70 Credit points 5 Course achievement None Examination Written exam Examination duration and Examination at Aalborg University | | · Do able to better povigate in contexts of | f corporate entroproperty (radical) in | pountion given the con | anlovity nolitics o |
| Workload in Hours Independent Study Time 80, Study Time in Lecture 70 Credit points 5 Course achievement None Examination Written exam Examination duration and Examination at Aalborg University | | | r corporate entrepreneurship/(radical) in | novation given the con | npiexity, politics a |
| workload in Hours Independent Study Time 80, Study Time in Lecture 70 Credit points 5 Course achievement None Examination Written exam Examination duration and Examination duration at Aalborg University | | emergent nature of the processes. | | | |
| Workload in Hours Independent Study Time 80, Study Time in Lecture 70 Credit points 5 Course achievement None Examination duration and Examination at Aalborg University | | | - · · | organisations when att | empting to organ |
| Credit points 5 Course achievement None Examination Written exam Examination duration and Examination at Aalborg University | | corporate entrepreneurship/(radical) innovati | ion. | | |
| Course achievement None Examination Written exam Examination duration and Examination duration at Aalborg University | Workload in Hours | Independent Study Time 80, Study Time in Lo | ecture 70 | | |
| Examination Written exam Examination duration and Examination at Aalborg University | Credit points | 5 | | | |
| Examination duration and Examination at Aalborg University | Course achievement | None | | | |
| | Examination | Written exam | | | |
| scale | Examination duration and | Examination at Aalborg University | | | |
| State | scale | | | | |
| Assignment for the Global Technology and Innovation Management & Entrepreneurship: Specialisation Entrepreneurial Engineerin | Assignment for the | Global Technology and Innovation Manager | nent & Entrepreneurship: Specialisation | Entrepreneurial Engine | ering (AAU): Electi |

| Course L1971: Corporate Entrepreneurship (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 | |
| Literature | |

| Courses | | | | |
|---|---|---|----------------------------|----------------------|
| Title | | Tree | Here /u-l- | СР |
| I ITIE Understanding Entrepreneurship (A | AU) (L1970) | Typ Lecture | Hrs/wk | 5 |
| Module Responsible | | | | |
| Admission Requirements | | | | |
| Recommended Previous | None | | | |
| Knowledge | | | | |
| Educational Objectives | After taking part successfully, students have | reached the following learning results | | |
| Professional Competence | | | | |
| Knowledge | During this course the students will gain know | owledge about the foundations of entrep | reneurship as an acadei | mic field of researc |
| | We will discuss entrepreneurship from a mac | roeconomic, a psychological, and a mana | gerial point of view. | |
| | The students will acquire an understanding | of entrepreneurship concepts and theori | es, methods and tools. | |
| | | | | |
| | The student must understand theories of the | ne entrepreneurial role at a personal, orga | anisational as well as soc | cietal level. |
| Skills | The student will continuously be required to | relate the theoretical learnings to entre | preneurship as a practi | ce. The students v |
| | thereby acquire an understanding of entrepreneurship theory, methods and tools. The student must understand the implications o | | | |
| | the entrepreneurial role on a personal, or | rganizational as well as societal level. | The student must furt | hermore be able |
| | understand and describe his or her own situa | tion in relation to an entrepreneurial con | text. | |
| | The student must be able to analyse entrep | preneurial problems by using relevant the | ory, methods and tools. | |
| | • The students must be able to use theory in | analysing entrepreneurial challenges at | the personal and organis | ational level. |
| Personal Competence | | | | |
| Social Competence | | | | |
| Autonomy | The student must be able to select and use various relevant theoretical perspectives, methods and tools in relation to the planni | | ation to the planni | |
| | and engaging in entreneurial business develo | opment processes. | | |
| Workload in Hours | Independent Study Time 80, Study Time in L | ecture 70 | | |
| Credit points | | | | |
| Course achievement | | | | |
| Examination | Written exam | | | |
| Examination duration and | Examination at Aalborg University | | | |
| scale | | | | |
| Assignment for the | Global Technology and Innovation Managen | nent & Entrepreneurship: Specialisation | Entrepreneurial Enginee | ering (AAU): Electi |
| Following Curricula | Compulson | | | |

| Course L1970: Understandin | ourse L1970: Understanding Entrepreneurship (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 | | |
| Literature | | |

| Courses | | | | |
|------------------------------------|--|---|--------------------------|-------------------|
| Title | | Тур | Hrs/wk | СР |
| Applied Business Modelling (AAU) (| L1972) | Lecture | 5 | 5 |
| Module Responsible | NN | | | |
| Admission Requirements | None | | | |
| Recommended Previous | General business knowledge. | | | |
| Knowledge | | | | |
| Educational Objectives | After taking part successfully, students h | nave reached the following learning results | | |
| Professional Competence | | | | |
| Knowledge | | | | |
| | • The student will be able to distinguish between different business models archetypes and how their design features differ. | | | eatures differ. |
| Skills | <i>Skills</i> • The student will be able to develop the most suitable business model for a new business based on data collected throu and field research. | | ected through de | |
| | • The student will be able to distinguish between different archetypes of business models and describe the implicat adopting a new business model within an existing business. | | | the implications |
| | • The student will be able to use the bus | iness model as a strategic tool of communical | tion within new business | creation. |
| | • The student will be able to unfold diffe | rent scenarios through business model prototy | yping. | |
| Personal Competence | | | | |
| Social Competence | | | | |
| Autonomy | The student will be able to analyse and modelling approach. | develop new business with both an external | and internal perspective | e through a busin |
| Workload in Hours | Independent Study Time 80, Study Time | in Lecture 70 | | |
| Credit points | 5 | | | |
| Course achievement | None | | | |
| Examination | Written exam | | | |
| Examination duration and | Examination at Aalborg University | | | |
| scale | | | | |
| Assignment for the | Global Technology and Innovation Mana | agement & Entrepreneurship: Specialisation | Entrepreneurial Enginee | ring (AAU): Elect |
| Following Curricula | Compulsory | | | |

| Course L1972: Applied Business Modelling (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 | SoSe |
| Content | |
| Literature | |

| Courses | | | | |
|-----------------------------------|---|--|----------------------------|---------------------|
| Title | | Тур | Hrs/wk | СР |
| Design Based Innovation (AAU) (L1 | 969) | Lecture | 5 | 5 |
| Module Responsible | NN | | | |
| Admission Requirements | None | | | |
| Recommended Previous Knowledge | Basics in design management. | | | |
| Educational Objectives | After taking part successfully, students | have reached the following learning results | | |
| Professional Competence | | | | |
| Knowledge | The students | | | |
| | must understand the prototyping pro | cess and the strengths and weaknesses of fast | prototyping. | |
| | must understand the concept of prob a product/service business concept | lem framing and reframing through a rapid an | d iterative prototyping pr | ocess for developin |
| | must understand the process of user- | driven innovation used in a prototyping proces | 55. | |
| Skills | The students | | | |
| | must be able to use observation, inte | rviews and other research methods to collect o | data on user/customer be | haviour. |
| | must be able to transform data on u for problem framing and a prototyping | ser/customer behavior into specifications and process. | demands and subsequer | ntly use this as ba |
| | must be able to apply prototyping too | ols to problem solving, product-, service- and b | usiness development. | |
| | must be able to work through and do | cument a process of design-driven innovation. | | |
| | must be able to frame specific proble | m-areas and/or opportunities. | | |
| Personal Competence | | | | |
| Social Competence | | | | |
| Autonomy | The students | | | |
| | must be able to plan and execute a p | rototyping process that to a large extent invol | ves users, customers and | other stakeholder |
| | must bel able to navigate through an | d facilitate an open-ended process. | | |
| | must be able to reflect on the process | s and outcome of the prototyping process with | in a business developme | nt context. |
| Workload in Hours | Independent Study Time 80, Study Tim | e in Lecture 70 | | |
| Credit points | 5 | | | |
| Course achievement | None | | | |
| Examination | Written exam | | | |
| Examination duration and scale | Examination at Aalborg University | | | |
| Assignment for the | Global Technology and Innovation Ma | nagement & Entrepreneurship: Specialisation | Entrepreneurial Enginee | ering (AAU): Electi |
| Following Curricula | Compulsory | , , , | . 5 | |

| Course L1969: Design Based Innovation (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 | SoSe | |
| Content | | |
| Literature | | |

| Courses | | | | |
|--|---|---|-------------------------|----------------------|
| Title | | Тур | Hrs/wk | СР |
| Market, Resources and Entreprene | urship (AAU) (L1973) | Lecture | 5 | 5 |
| Module Responsible | NN | | | |
| Admission Requirements | None | | | |
| Recommended Previous | None | | | |
| Knowledge | | | | |
| Educational Objectives | After taking part successfully, students have r | eached the following learning results | | |
| Professional Competence | | | | |
| Knowledge | • The student will understand theories of mark | ket analysis and market development stra | tegies and implementa | ation of strategies. |
| | • The student will understand and distinguish between the different types of financing including: lending based, equity based an cash-flow based. | | | |
| Skills | • The student will learn aspect of how to identify and analyse markets and how to make strategies for approaching the market. | | | |
| | • The student will learn how to address financ | ing issues of the business from a resource | e standpoint. | |
| | • The students will learn to identify the most s | suitable form of financing and resource ac | quirement for a specifi | c business. |
| Personal Competence Social Competence | | | | |
| Autonomy | • The student will be able to use methods strategy. | of identifying a market, and develop a | market strategy, and | to implementing t |
| | • The student will be able to identify the need to acquire the resources to meet the needs. | ls of the new business and approach pote | ntial stakeholders and | key persons in ord |
| | • The student will be able to operate under the | e restraints of limited resources and optin | nize the usage of those | resources. |
| 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 Aalborg University | | | |
| Assignment for the | Global Technology and Innovation Manageme | ent & Entrepreneurship: Specialisation E | ntrepreneurial Enginee | ering (AAU): Electi |
| Following Curricula | Compulsory | | | |

| Course L1973: Market, Resources and Entrepreneurship (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 | SoSe | |
| Content | | |
| Literature | | |

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 | None | | | |
| Recommended Previous | | | | |
| Knowledge | | | | |
| | After taking part successfully, students have reached the following learning results | | | |
| Professional Competence | | | | |
| Knowledge | P - Demonstrate knowledge and understanding of the nature of distributed design. | | | |
| | - Demonstrate knowledge and understanding of the management of distributed design projects. | | | |
| | - Demonstrate knowledge and understanding of how technology can effectively support distributed design activity. | | | |
| 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 duration and | Examination at University of Strathclyde | | | |
| scale | | | | |
| Assignment for the | Global Technology and Innovation Management & Entrepreneurship: Specialisation Global Design Management (UoS): Compulsory | | | |
| 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 have | reached the following learning results | | |
| Professional Competence | | | | |
| | Appreciate and understand the role of design within an organisation and the organisational structures required for effective design. Appreciate the role of design models, approaches and methods. | | | |
| | 3. Know a variety of aspects and the comple | xities of design development. | | |
| | 4. Appreciate the role of innovation in design | n and know how to measure design perform | mance. | |
| Skills | Ability to articulate the impact of early product delivery with regards to quality, cost and market sales. | | | |
| | Describe the different main organisational s | tructures and their impact on the design a | ctivity. | |
| | Articulation of the different types of design i | nodels, approaches and methods. | | |
| | Appreciation of the different strengths and w | veaknesses of models, approaches and me | ethods. | |
| | Able to describe multiple aspects of design of | levelopment. | | |
| | Articulation of complexities in design develo | pment. | | |
| 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 I | ecture 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 Managem | ent & Entrepreneurship: Specialisation Glo | bbal 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 Postgraduate Group Project (UoS) | (L1966) | Typ Project Seminar | Hrs/wk 20 | CP 20 |
| Module Responsible | Dr. Anup Nair | | | |
| Admission Requirements | | | | |
| Recommended Previous | | | | |
| Knowledge | | | | |
| Educational Objectives | After taking part successfully, students have reach | ed the following learning results | | |
| Professional Competence | | | | |
| Knowledge | Demonstrate knowledge and understanding of the | various elements associated with the | respective course dis | ciplines. |
| | Demonstrate knowledge and understanding of pro | ducts and management practices in in | dustry. | |
| | Demonstrate knowledge and ability in applying and using various analysis and modelling tools and techniques in product process realisation. | | | iques in product ar |
| | Demonstrate project planning and management, data collection and analysis, presentation, consulting and team working skills | | | am working skills. |
| Skills | Is Ability to describe and discuss course contents relevant to the particular project and the course theme. | | | |
| | Critically review and evaluate products and manage | gement practices of the particular com | pany. | |
| | Critically review and evaluate analysis tools and m | odelling techniques. | | |
| | Discuss and critically evaluate the implementation | of analysis tools and modelling techni | iques. | |
| Personal Competence | | | | |
| Social Competence | Teamwork, team leadership. | | | |
| Autonomy | Ability to plan, control and lead an industrial project | ct from inception to completion. | | |
| | Evidence of achieving deliverables which meet the | client company requirements. | | |
| | Ability to work responsibly as part of a project tear | n. | | |
| Workload in Hours | Independent Study Time 320, Study Time in Lectu | re 280 | | |
| Credit points | 20 | | | |
| Course achievement | None | | | |
| Examination | Subject theoretical and practical work | | | |
| Examination duration and | Examination at University of Strathclyde | | | |
| scale | | | | |
| Assignment for the | Global Technology and Innovation Management $\&$ | Entrepreneurship: Specialisation Globa | al Design Managemer | nt (UoS): Compulsor |

| Course L1966: Postgraduate | 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 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 Dynami | cs (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 reach | ed the following learning results | | |
| Professional Competence | | | | |
| Knowledge | Know the importance of system thinking in | an organization | | |
| | Understand the importance of modelling an | • | | |
| | Appreciate the wide range of applications or | | | |
| | Understand the stages of modelling process | | | |
| | Methods for validating a System Dynamics | model. | | |
| Skills | After completing this module, students will have s | kills in: | | |
| | Identifying key parameters and its influence | on the system for a specific problem | I. | |
| | Developing a System Dynamics model. | | | |
| | Interpretation of simulation results and policy | cy formulation. | | |
| Personal Competence | | | | |
| Social Competence | | | | |
| Autonomy | After completing this module, students will have s | kills: | | |
| | In predicting dynamic scenarios in business | innovation. | | |
| | Developing business models which will be h | elpful in predicting the success of inn | ovation. | |
| | Applying a holistic view to business problem | 15. | | |
| Workload in Hours | Independent Study Time 80, Study Time in Lecture | 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 | pportunities and Challer | nges for Innovation |
| Following Curricula | Management in New Economic Powerhouses (MU): | Compulsory | | |
| | | | | |

| Course L1948: Business Mod | Course L1948: Business Modelling 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 | | Тур | Hrs/wk | СР |
| Management in Practice (MU) (L19 | | Lecture | 6 | 6 |
| | Prof. Lakshmi Narayanan | | | |
| Admission Requirements | | | | |
| Recommended Previous | None | | | |
| Knowledge | | | | |
| | After taking part successfully, students | have reached the following learning results | | |
| Professional Competence Knowledge Skills | Understand the Indian Business of Exposure to structure and contecurrent investment climate in India Exposure to technology capabilities Liaison with an MSME in India Exposure to business incubator: Promotes innovation driven start After completing this module, students Analyzing cultural diversity and india design a business proposal Design an appropriate structure | xt of business operations , business etiquette dia ies and innovation in business design Manipal University Technology Business Incub -ups will have skills in: ts impact on business and analysing the variou that suits the Indian business practices. | ator (MUTBI) | |
| | Designing appropriate business | regotiation strategies. | | |
| Personal Competence | | | | |
| Social Competence | Teamwork and leadership. | | | |
| Autonomy | | will have skills: of business environment in India with special unctioning of Indian industries and to promote | | |
| Workload in Hours | Independent Study Time 96, Study Tim | e in Lecture 84 | | |
| Credit points | 6 | | | |
| Course achievement | None | | | |
| Examination | Written exam | | | |
| Examination duration and scale | Prüfung abgelegt an der Manipal Unive | rsity | | |
| Assignment for the | Global Technology and Innovation Mar | agement & Entrepreneurship: Specialisation | Opportunities and Challe | enges for Innovation |
| Following Curricula | Management in New Economic Powerho | ouses (MU): Compulsory | | |
| | | | | |
| Course L1949: Management | in Practice (MU) | | | |
| Тур | Lecture | | | |
| Hrs/wk | 6 | | | |

| Тур | Lecture |
|-------------------|---|
| Hrs/wk | 6 |
| СР | 6 |
| Workload in Hours | Independent Study Time 96, Study Time in Lecture 84 |
| Lecturer | Prof. Lakshmi Narayanan |
| Language | EN |
| Cycle | WiSe |
| Content | |
| Literature | |

| Courses | |
|---|--|
| Title Technology and Business (MU) (L1 | TypHrs/wkCP950)Lecture66 |
| | Prof. Pallavi Upadhyaya |
| Admission Requirements | None |
| Recommended Previous | |
| Knowledge | |
| Educational Objectives | After taking part successfully, students have reached the following learning results |
| Professional Competence | |
| Knowledge | Important trends in information technology and their applications in business Role of information technology in process innovation Understand various business models of electronic marketplaces in India Understand new technologies that facilitate MSMEs to market their products and services |
| Skills | After completing this module, students will have skills in: Analyzing issues in information systems implementation. Evaluate suitable e-marketplace for new product launch. Designing appropriate e-marketing strategies. |
| Personal Competence | |
| - | Teamwork and communication skills |
| Autonomy | - Descision making |
| | - Analysation and evaluation of market opportunities |
| Workload in Hours | Independent Study Time 96, Study Time in Lecture 84 |
| Credit points | 6 |
| 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 Opportunities and Challenges for Innovat |
| Following Curricula | Management in New Economic Powerhouses (MU): Compulsory |
| | |
| Course L1950: Technology a | |
| Тур | Lecture |
| Hrs/wk | |
| CP | 6 Indexedent Study Time 00, Study Time in Letture 04 |
| workload in Hours | Independent Study Time 96, Study Time in Lecture 84 |

| Workload in Hours | Independent Study Time 96, Study Time in Lecture 84 |
|-------------------|---|
| Lecturer | Prof. Pallavi Upadhyaya |
| 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 h | nave reached the following learning results | | |
| Professional Competence | | | | |
| Personal Competence Social Competence | Managing creativity, innovation and Understand the basic frameworks Know the importance of facilitatin Understand the importance of cree After completing this module, students w Developing framework and strates Assess and audit the technology of Analyse the problems related to communication skills After completing this module, students w | ilding an ecosystem for creativity and innovation nd technology. for assessing the technology capabilities of a b g the adoption of new technology. eativity, innovation & technology to gain compe- will have skills in: gies for enabling a supportive environment for capabilities of a business. creativity, innovation and technology managem will have skills: | business. titive advantage. fostering creativity and ent. | innovation. |
| | Identify the need for innovation an Assessing the feasibility of innovation | nd apply creative solutions for the technologica tive ideas. | I development. | |
| Workload in Hours | Independent Study Time 80, Study Time | in 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 Mana | agement & Entrepreneurship: Specialisation O | pportunities and Challe | enges for Innovat |
| | Management in New Economic Powerhou | | | |

| Course L1951: Technology, C | course L1951: Technology, Creativity and Innovation (MD) | |
|-----------------------------|--|--|
| 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 |
| Business Research Methods (MU) (I | 1952) | Lecture | 5 | 5 |
| Module Responsible | Dr. Rajasekharan Pillai | | | |
| Admission Requirements | None | | | |
| Recommended Previous | None | | | |
| Knowledge | | | | |
| Educational Objectives | After taking part successfully, students hav | e reached the following learning results | | |
| Professional Competence | | | | |
| Knowledge | After the completion of the module the lear | ners will: | | |
| | familiarize the way of scientific researcher | arch and it characteristics. | | |
| | get an orientation on sampling desig | | | |
| | | surement scales used in research and diffe | rent scaling techniques; | |
| | fully be oriented to prominent method | ds of data collection. | | |
| | learn the tools of data processing an | d analysis amenable to be interpreted and | inferred, with the help o | f SPSS. |
| Skills | /s - Students can obtain knowledge about research process, research design, inter alia, practical significance of knowing RM. | | | nowing RM. |
| | - They will be able to develop questionnaire | independently. | | |
| | - They will be able to understand various m | ethods of testing of hypotheses. | | |
| Personal Competence | | | | |
| Social Competence | Coordination and teamwork. | | | |
| Autonomy | Students will gain competences in research | ing data and communicating it to various p | arties within a professio | nal environment. |
| Workload in Hours | Independent Study Time 80, Study Time in | Lecture 70 | | |
| Credit points | 5 | | | |
| Course achievement | None | | | |
| Examination | Written exam | | | |
| Examination duration and | Examination at Manipal University | | | |
| scale | | | | |
| Assignment for the | Global Technology and Innovation Manage | ment & Entrepreneurship: Specialisation (| Opportunities and Challe | enges for Innovati |
| Following Curricula | Management in New Economic Powerhouse | s (MU): Compulsory | | |

| Course L1952: Busiliess Rese | Course L1552: Business Research Methous (MO) | |
|------------------------------|---|--|
| Тур | Lecture | |
| Hrs/wk | 5 | |
| СР | 5 | |
| Workload in Hours | Independent Study Time 80, Study Time in Lecture 70 | |
| Lecturer | Dr. Rajasekharan Pillai | |
| Language | EN | |
| Cycle | WiSe | |
| Content | | |
| Literature | | |

| Courses | | | | |
|-----------------------------------|---|--------------------------------------|-------------------------|--------------------|
| Title | | Тур | Hrs/wk | СР |
| Seminar Series on Innovation Mana | gement (MU) (L1953) | Seminar | 3 | 3 |
| Module Responsible | Dr. V K Ranjith | | | |
| Admission Requirements | None | | | |
| Recommended Previous | Basics in Innovation Management | | | |
| Knowledge | | | | |
| Educational Objectives | After taking part successfully, students have read | hed the following learning results | | |
| Professional Competence | | | | |
| Knowledge | - Inconstinue Deconstruction according | | | |
| | Innovation Process in emerging economies Context of innovation | | | |
| | Innovation and markets | | | |
| | Innovation and markets Innovative practices in the select industrie | - Healthcare Education and EMCC | | |
| | Innovative practices in the select industrie Innovation and the role of incubators-A cas | | | |
| | Innovation and the role of incubators-A cas | e of Manipal Oniversity | | |
| Skills | After completing this module, students will have | skills in: | | |
| | understanding innovation in the emerging | market process. | | |
| | decision making for facilitating the innovat | ion process. | | |
| | methods to foster innovation. | | | |
| Personal Competence | | | | |
| Social Competence | Teamwork and communication skills. | | | |
| Autonomy | - Leadership | | | |
| | | | | |
| | - Decision making | | | |
| Workload in Hours | Independent Study Time 48, Study Time in Lectur | re 42 | | |
| Credit points | 3 | | | |
| Course achievement | None | | | |
| Examination | Written exam | | | |
| Examination duration and | Examination at Manipal University | | | |
| scale | | | | |
| Assignment for the | Global Technology and Innovation Management | & Entrepreneurship: Specialisation C | pportunities and Challe | enges for Innovati |
| Following Curricula | Management in New Economic Powerhouses (MU |): Elective Compulsory | | |

| Course L1953: Seminar Series on Innovation Management (MU) | |
|--|---|
| Тур | Seminar |
| Hrs/wk | 3 |
| СР | 3 |
| Workload in Hours | Independent Study Time 48, Study Time in Lecture 42 |
| Lecturer | Dr. V K Ranjith |
| Language | EN |
| Cycle | WiSe |
| Content | |
| Literature | |

| Courses | | | | |
|-----------------------------------|---|---|----------------------------|---------------------|
| Title | | Тур | Hrs/wk | СР |
| Foreign Language Hindi (MU) (L195 | 4) | Lecture | 3 | 3 |
| Module Responsible | NN | | | |
| Admission Requirements | None | | | |
| Recommended Previous | None | | | |
| Knowledge | | | | |
| Educational Objectives | After taking part successfully, students have re | eached the following learning results | | |
| Professional Competence | | | | |
| Knowledge | By the end of the module students will have le | arned: | | |
| | To speak and familiarize themselves with | th Hindi as a foreign language | | |
| | The students will be able to identify the | 5 5 5 | of the Hindi Janguage. The | w will be able to s |
| | or express basic ideas, sentences, an | | | |
| | enough vocabulary to continue with the | | | iai script and rea |
| | | | | |
| | Students will gain basic communication skills i | n the Indian language. | | |
| Personal Competence | | | | |
| Social Competence | Communication skills. | | | |
| Autonomy | The course will help students orienting them | nselves in every day life in India thro | ugh a better understandir | ng of language ar |
| | culture. | | | <u> </u> |
| | | | | |
| | Independent Study Time 48, Study Time in Leo | cture 42 | | |
| Credit points | 3 | | | |
| Course achievement | None | | | |
| Examination | Written exam | | | |
| Examination duration and | Examination at Manipal University | | | |
| scale | <u> </u> | | | |
| Assignment for the | Global Technology and Innovation Manageme | ent & Entrepreneurship: Specialisation | Opportunities and Challe | nges for Innovation |
| , looiginiter the | 55 5 | | | - |

| Course L1954: Foreign Lange | Course L1954: Foreign Language Hindi (MU) | |
|-----------------------------|---|--|
| Тур | Lecture | |
| Hrs/wk | 3 | |
| СР | 3 | |
| Workload in Hours | Independent Study Time 48, Study Time in Lecture 42 | |
| 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 CP Тур Hrs/wk 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 In Lecturer Pr Language EN Cycle W Content Th ad frc an ad In th ex Th an | ecture a a a a a a b b c c c c c c c c c c c c c |
|--|--|
| Hrs/wk 4 CP 4 Workload in Hours In Lecturer Pr Language EN Cycle W Content Th ad frc an ad In th ex Th an | ndependent Study Time 64, Study Time in Lecture 56 Prof. Yukihiko Nakata N ViSe The aim of this course is to demonstrate and discuss the essential role of information technology for innovation and competitive Idvantage of a company. Innovations of the 21st century such as Apple's iPod - and the competiveness advantage that results |
| CP 4 Workload in Hours In Lecturer Pr Language EN Cycle W Content Th ad frc an ad In th ex Th an | ndependent Study Time 64, Study Time in Lecture 56 Prof. Yukihiko Nakata IN ViSe The aim of this course is to demonstrate and discuss the essential role of information technology for innovation and competitive Idvantage of a company. Innovations of the 21st century such as Apple's iPod - and the competiveness advantage that results |
| Workload in Hours Ind Lecturer Pr Language EN Cycle W Content Th ad In th th th th th th Language Th add In th th add Th <th>ndependent Study Time 64, Study Time in Lecture 56 Prof. Yukihiko Nakata EN ViSe The aim of this course is to demonstrate and discuss the essential role of information technology for innovation and competitive Idvantage of a company. Innovations of the 21st century such as Apple's iPod - and the competiveness advantage that results</th> | ndependent Study Time 64, Study Time in Lecture 56 Prof. Yukihiko Nakata EN ViSe The aim of this course is to demonstrate and discuss the essential role of information technology for innovation and competitive Idvantage of a company. Innovations of the 21st century such as Apple's iPod - and the competiveness advantage that results |
| Lecturer Pr Language EN Cycle W Content Th ad frc an ad In th ex Th an | rof. Yukihiko Nakata N ViSe The aim of this course is to demonstrate and discuss the essential role of information technology for innovation and competitive Idvantage of a company. Innovations of the 21st century such as Apple's iPod - and the competiveness advantage that results |
| Language EN Cycle W Content Th ad frc an ad In th ex Th an | N ViSe The aim of this course is to demonstrate and discuss the essential role of information technology for innovation and competitive Idvantage of a company. Innovations of the 21st century such as Apple's iPod - and the competiveness advantage that results |
| Cycle W Content Th ad frc an ad In th ex Th an | ViSe The aim of this course is to demonstrate and discuss the essential role of information technology for innovation and competitive Idvantage of a company. Innovations of the 21st century such as Apple's iPod - and the competiveness advantage that results |
| Content Th ad frc an ad In th ex Th an | he aim of this course is to demonstrate and discuss the essential role of information technology for innovation and competitive idvantage of a company. Innovations of the 21st century such as Apple's iPod - and the competiveness advantage that results |
| ad frc an ad In th ex Th an | dvantage of a company. Innovations of the 21st century such as Apple's iPod - and the competiveness advantage that results |
| | Norm 1 are indice based on information in physical apparatus. Information is processed or made available through the apparatus. In distance on how much information is processed or made available through the apparatus. In distance on the much information is processed or made available through the apparatus. In distance on the much information is processed or made available through the apparatus. In this sense information technology and the apparatus is based on how much information is processed or made available through the apparatus. In the apparatus is based on how much information is processed or made available through the apparatus. In the apparatus is based on the work of the key parts of Management of Technology (MOT), which is the management to lead R&D to business and add xtra value. the course objective is to master "Total Information Technology (MOT), which is the management to lead R&D to business and add xtra value. the course objective is to master "Total Information Technology (SOT)" and "Management to lead R&D to business and add xtra value. 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 Knowledge Management Supply Chain Enterprise Resource Radio Frequency Identification (RFID Case Study of JR-Suica Video Case Study "Project X; Challenger IC Card Syste |
| Literature | Turban, E., Volonino, L., Wood, G. R. (2005) Information Technology for Management: Digital Strategies for Insight, Action, |

| 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 have | ve 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 | niversity | | |
| scale | | | | |
| Assignment for the | Global Technology and Innovation Manage | ement & Entrepreneurship: Specialisation Te | chnology and Innova | tion Management in |
| Following Curricula | Japan (APU): Compulsory | | | |

| Тур | Lecture |
|-------------------|---|
| Hrs/wk | 4 |
| CP | 4 |
| Workload in Hours | Independent Study Time 64, Study Time in Lecture 56 |
| | Prof. Masanori Namba |
| Language | EN |
| Cycle | |
| Content | |
| 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 6 Market Creation: Ideation, Conceptualization and Business Model, Case Study (TiVo) |
| | Class 7 Project Management for New Product Development (Stage Gates/ PACE method) |
| | Class 8 New Business Development (Alliance/introduction to Self Development) |
| | Part[]3[]Managing of Information Technology(IT) |
| | Class 9 Information needs in an organization and role of IT |
| | Class 10 Alternative ways to match the IT function to the structure and behavior of the organization |
| | Class 10 Alerheiter ways to match the information of 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 |
| | Parting Competitiveness and Poduction Management Class 12 Comparison of Mass Production Method &∏Lean System; Ford System and Toyota System |
| | |
| | Class 13 Cost, Productivity and Learning Curve |
| | Class 14 Supply Chain and Open Architecture |
| | Class 15 Total Innovation Management |
| | |
| Literature | Leifer, Richard, McDermott, Christopher M., O'Connor, Gina Colarelli, Peters, Lois S. Rice, Mark P. Veryzer Robert W. (20 |
| | 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 |
| | 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 management |
| | innovation-driven enterprises (Industrielle Organisation). |
| | Simon, H. () Hidden champions of the twenty-first century : success strategies of unknown world market leaders, Springer |

| Courses | | | | |
|----------------------------------|--|---|--|---|
| Fitle | | Түр | Hrs/wk | СР |
| apanese Corporations and Asia Pa | ific (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, studen | s have reached the following learning results | | |
| Professional Competence | | | | |
| | Pacific region. The contents of the commanagement, keiretsu, general tradinternationalization strategy (or region corporations have conducted foreign the students' participation through a which will be selected in the Asia Pacian By the end of the module students will completion of the course will assists a political economy as well as issues in are required of anyone if they wish to Subject-related knowledge and under the Knowledge of Japanese manag Knowledge of Japanese political context of the course political context of the course manag as the knowledge of Japanese politication of the course manag context of the course manage context of the course manage context of the course context of the course manage context of the course context of the course manage context of the course conte | l have learned: students to establish a good working knowledge of the Asia Pacific. It will also assist students to dev put their analytical thinking capabilities into prac | conomic systems inclu vernment in the econo icularly examine how Ja perspective. In addition ract Japanese corporat of Japanese business m velop research and pres ctice. | ding human resour- omy, as well as t panese multination , the course requir ions into the countr anagement, Japane entation skills, whic e unions, kaizen. |
| | Knowledge of the Asia Pacific econom | y and international relations in Asia. | | |
| Personal Competence | | | | |
| Social Competence | Teamwork and communication skills | | | |
| Autonomy | - Management skills | | | |
| | - Decision making | | | |
| | - Presentation skills | | | |
| | - FIESEIILALIOII SKIIIS | | | |
| Workload in Hours | Independent Study Time 64, Study Ti | me in Lecture 56 | | |
| Credit points | 4 | | | |
| Course achievement | None | | | |
| Examination | Written exam | | | |
| | Examination at Ritsumeikan Asia Paci | fic University | | |
| scale | | | | |
| | Global Technology and Innovation M | | | |

| | porations and Asia Pacific (APU) |
|-------------------|--|
| Тур | Lecture |
| Hrs/wk | 4 |
| СР | 4 |
| Workload in Hours | Independent Study Time 64, Study Time in Lecture 56 |
| Lecturer | Prof. Kaoru Natsuda |
| Language | |
| | |
| Cycle | |
| Content | I. Competitive Advantages of Country |
| | Porter, Michael (1990) The Competitive Advantage of Nations, New York, The Free Press.(Chapter 3) World Economic Forum (2013) The Global Competitiveness Report 2013-2014, Geneva, World Economic Forum. |
| | II. Japanese Management Systems |
| | Abegglen, James (2006) 21st Century Japanese Management: New Systems, lasting value, New York, Palgrave Macmillan (cha |
| | |
| | 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 Kawamu (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.), Japa 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.) Econ 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. 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, Cambr 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 Macmilla |
| | Abeggien, James (2006) 21st Century Japanese Management: New Systems, Jasting Value, New York, Paigrave Machinia Chen, Min (2004) Asian Management Systems (2nd edition), London, Thomson. |

| Courses | | | | |
|---|---|---|------------------------|-----------------|
| Title Major Seminar (APU) (L1939) | | Typ Seminar | Hrs/wk 6 | CP 6 |
| Module Responsible | Prof. Rian Beise-Zee | | | |
| Admission Requirements | None | | | |
| Recommended Previous | None | | | |
| Knowledge | | | | |
| Educational Objectives | After taking part successfully, student | ts have reached the following learning results | | |
| Professional Competence | | | | |
| Knowledge | Changing programme related topics. | | | |
| Skills | Competence to be gained according t | to the different topics (projects in cooperation wi | th Japanese firms). | |
| Personal Competence | | | | |
| Social Competence | Teamwork and communication skills. | | | |
| Autonomy | Management and decision making ski | ills. | | |
| Workload in Hours | Independent Study Time 96, Study Tim | me in Lecture 84 | | |
| Credit points | 6 | | | |
| Course achievement | None | | | |
| Examination | Written elaboration | | | |
| Examination duration and | Examination at Ritsumeikan Asia Paci | fic University | | |
| scale | | | | |
| Assignment for the | Global Technology and Innovation M | anagement & Entrepreneurship: Specialisation | Technology and Innovat | tion Management |
| 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 (AP | 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 card Balance the needs of the society and Develop oral and written communication skill 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 I | Lecture 56 | | |
| Credit points | 4 | | | |
| Course achievement | None | | | |
| Examination | Written exam | | | |
| Examination duration and | Examination at Ritsumeikan Asia Pacific Uni | versity | | |
| scale | | | | |
| Assignment for the | Global Technology and Innovation Manage | ment & Entrepreneurship: Specialisation Tec | hnology and Innovat | ion Management |
| Following Curricula | Japan (APU): Elective Compulsory | | | |

| Course L1945: Management | 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 | СР |
| National Innovation Systems (APU) | | Lecture | 4 | 4 |
| Module Responsible | Prof. Behrooz Asgari | | | |
| Admission Requirements | | | | |
| Recommended Previous | None | | | |
| Knowledge | | | | |
| Educational Objectives | After taking part successfully, students hav | e reached the following learning results | | |
| Professional Competence | | | | |
| Knowledge | Subject-related knowledge and understand | ing: | | |
| | Key concepts of national systems of | innovation | | |
| | • The nation-specific determinants of i | nnovation | | |
| | The system-approach to the develop | ment of product and service innovations | | |
| Chille | | have ability in | | |
| SKIIIS | After completing this module, students will | have skills in: | | |
| | language and concepts of national a | nd regional determinants of innovation for | product and service deve | lopment |
| | related product development issues | to the national and regional | | |
| Personal Competence | | | | |
| Social Competence | | | | |
| Autonomy | After completing this module, students will | have skills | | |
| Autonomy | Arter completing this module, students will | nuve skiis. | | |
| | familiarization with the system approx | bach of innovation | | |
| | ability of apply principles of national | systems of innovation to decision problem | is of policy makers and pu | blic administrato |
| Workload in Hours | Independent Study Time 64, Study Time in | Lecture 56 | | |
| Credit points | | | | |
| Course achievement | | | | |
| Examination | | | | |
| | Examination at Ritsumeikan Asia Pacific Un | iversity | | |
| scale | | liversity | | |
| | Global Technology and Innovation Manage | ment & Entrepreneurshin: Specialisation | Technology and Innovati | on Management |
| - | Japan (APU): Compulsory | inche & Entrepreneursnip. Specialisation | icennology and innovati | on Management |
| | | | | |
| Course L1935: National Inno | vation Systems (APU) | | | |
| Тур | Lecture | | | |
| Hrs/wk | 4 | | | |
| CP | 4 | | | |
| Workload in Hours | Tindependent Study Time 64, Study Time in | Lecture 56 | | |
| Lecturer | Prof. Behrooz Asgari | | | |
| Language | 5 | | | |
| Cycle | | | | |
| | WISe | | | |
| Content | Why study National Innovation Syste | ms? | | |
| | The Concept of National Innov | ration Systems | | |
| | National Structures and Policie | es framing innovations | | |
| | Analytical Perspectives: What is Inno | | | |
| | History and Development of the | | | |
| | The system nature of innovati | on | | |
| | Recent Trends in NIS Research | | | |
| | NIS and Innovation Policy Symples of National Innovation System | toma | | |
| | Examples of National Innovation System | LETTIS | | |
| | | | | |
| | United StatesJapan | | | |

• Korea

∘ Malaysia

Literature No textbook , but a journal articles and book chapters

| Courses | | | | |
|---------------------------------|--|---|-------------------------|-------------------|
| Title | | Тур | Hrs/wk | СР |
| Quality and Operations Manageme | nt (APU) (L1936) | Lecture | 4 | 4 |
| Module Responsible | Prof. Behrooz Asgari | | | |
| Admission Requirements | None | | | |
| Recommended Previous | None | | | |
| Knowledge | | | | |
| Educational Objectives | After taking part successfully, students have re | eached the following learning results | | |
| Professional Competence | | | | |
| Knowledge | knowledge base for studies and work in | the field of Quality and Operations Mana | agement | |
| | knowledge of the foundations of Quality | | igeniene | |
| | an introduction to tools and approaches | · • | esses and products | |
| | Understanding of Japanese-style quality | | | |
| | | | | |
| Skills | After completing this module, students will have | ve skills in: | | |
| | language, concepts, and tools to deal | with quality and operations issues in or | der to gain competitive | e advantage throu |
| | operations. | | | |
| | | | | |
| Personal Competence | | | | |
| Social Competence | | | | |
| Autonomy | After completing this module, students will have | e skills: | | |
| | familiarization with the problems and iss | sues confronting operations managers | | |
| | ability of apply principles and methods of | of an integrated quality and operations n | nanagement. | |
| Workload in Hours | Independent Study Time 64, Study Time in Lec | ture 56 | | |
| Credit points | | | | |
| Course achievement | None | | | |
| Examination | Written exam | | | |
| Examination duration and | Examination at Ritsumeikan Asia Pacific Univer | rsity | | |
| scale | | | | |
| Assignment for the | Global Technology and Innovation Manageme | nt & Entrepreneurship: Specialisation - | Technology and Innovat | ion Management |
| Following Curricula | Japan (APU): Compulsory | | | |

| urse L1936: Quality and O | perations Management (APU) |
|---------------------------|--|
| Тур | Lecture |
| Hrs/wk | 4 |
| CP | 4 |
| Workload in Hours | Independent Study Time 64, Study Time in Lecture 56 |
| Lecturer | Prof. Behrooz Asgari |
| Language | EN |
| Cycle | WiSe |
| Content | Operations Strategy in a Global Environment Operations and Productivity Quality and Operations Management Lean Production Decision-Making Tools Forecasting Managing Quality Design for Quality Improvement Processes Total Quality Management Statistical Process Control Process Strategy Process View. Inventory, Thruput, Flowtime Work flow management Bottleneck Analysis, Level vs. Chase plans Control charts and Just-in-time Processes Capacity Planning Linear Programming: Objectives, Constraints Linear Programming Formulations Location Strategies Transportation Models Tensportation Models |
| Literature | Linear Programming Formulations Location Strategies |

| 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 | Practical knowledge and skills to structure manage and evaluate projects Identify project risks Apply methods for motivating teams and retaining focus Knowledge project management that combines the 3K of kakusin (innovation), kaihatsu (development), and kaize (improvement) |
| 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 strategie for conditions of uncertainty and organizational factors in policies, gaining acceptance, assuring implementation, and copin with unanticipated consequences. |
| Personal Competence | |
| Social Competence | - Teamwork and communication skills |
| Autonomy | Intercultural management skills specific to Japan and Asia 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 Management (APU) | | | |
|--|--|--|--|
| Тур | Lecture | | |
| Hrs/wk | 4 | | |
| СР | 4 | | |
| Workload in Hours | ndependent Study Time 64, Study Time in Lecture 56 | | |
| Lecturer | of. 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 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. | | | | | | |
| | - Hojeet management skiis. | | | | | | |
| 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 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) (I | 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 ha | ve reached the following learning results | | |
| Professional Competence | | | | |
| Knowledge Skills | How the supply chain is designed using fundamental principles How to achieve balance and efficiency by focusing on Variety: of offerings based on operational efficiency and mark demand, Velocity through all processes of the supply chain and Manage inconsistencies carefully to reduce cost a improve quality and transparency to enable continuous learning and improvement How to improve production and operations in a variety of industries, including manufacturing, banking, health care a retailing Skills to design 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 in | 1 Lecture 56 | | |
| Credit points | 4 | | | |
| Course achievement | None | | | |
| Examination | Written exam | | | |
| Examination duration and | Examination at Ritsumeikan Asia Pacific U | niversity | | |
| scale | | | | |
| • | Global Technology and Innovation Manag Japan (APU): Elective Compulsory | ement & Entrepreneurship: Specialisation | Technology and Innovat | ion Management |

| 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 | Prof. Rian Beise-Zee | |
| Language | EN | |
| Cycle | WiSe | |
| Content | | |
| Literature | | |

| Module M1364: Japan | | | | | |
|-----------------------------|---|---|----------------------------|---------------------|--|
| Courses | | | | | |
| Title | | Тур | Hrs/wk | СР | |
| Japanese I (APU) (L1943) | | Lecture | 4 | 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 h | nave learned: | | | |
| | To speak and familiarize themsel | ves with Japanese as a foreign language | | | |
| | | | f the Japanese Japquage | Thoy will be able | |
| | The students will be able to identify the basic sounds, words and expressions of the Japanese language. They will be say or express basic ideas, sentences, and desires in simple sentences. They will learn to write the Japanese script and | | | | |
| | | | ii learn to write the Japa | nese script and lea | |
| | enough vocabulary to continue w | with the Basic 2 level course. | | | |
| Skills | Students will gain basic communication | skills in the Japanese language. | | | |
| Personal Competence | | | | | |
| Social Competence | Communication skills. | | | | |
| | | | | | |
| Autonomy | | g themselves in every day life in Japan throu | gh a better understand | ing of language a | |
| | culture. | | | | |
| Workload in Hours | Independent Study Time 64, Study Time | e 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 Man | agement & Entrepreneurship: Specialisation | Technology and Innovat | ion Management | |
| Following Curricula | Japan (APU): Elective Compulsory | | | | |

| 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 | rof. 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 M1376: Business Models Innovation (KTU) Courses Title Hrs/wk СР Тур Business Models Innovation (KTU) (L1955) Lecture 5 5 Module Responsible Prof. Giedrius Jucevičius **Admission Requirements** None **Recommended Previous** General management theory (non-mandatory) Knowledge **Educational Objectives** After taking part successfully, students have reached the following learning results Professional Competence Knowledge 1. Knows the concepts of value innovation and business model innovation, understands their theoretical structure and is capable of making the projections of new value creation 2. Knows the theoretical alternatives of new value creation and is capable of applying the methods of rethinking the boundaries of markets and industries 3. Knows the main patterns of business models and is capable of linking them with the new value propositions 4. Is capable of identifying the opportunities of new business models and new value propositions in the contemporary business environment 5. Knows the recent trends of consumption in the contemporary markets and is capable of integrating them into the construction of new value propositions 6. Understands the challenges underlying the practical implementation of value innovation and is capable of meeting them successfully in the organizational practice 7. Knows the key theories and practices in change management, related to value innovation, and is capable of applying them successfully in organizational activities 8. Is capable of testing the prototypes of new value propositions in the market and interpreting the obtained data 1. Able to identify new business possibilities through profound and entrepreneurial evaluation of economic, social, and other Skills changes 2. Capable of creating innovative business models, processes of innovation implementation, and business intelligence systems. 3. Able to think sistemically, critically, and creatively; capable of communicating and presenting the acquired knowledge. Personal Competence Teamwork, discussion, ideas sharing, harmonizing business development and the principles of sustainable development Social Competence Autonomy Presentation skills, literature research, data collection, analyses and interpretation based on gained theoretical concepts. Workload in Hours Independent Study Time 80, Study Time in Lecture 70 Credit points 5 Course achievement None Written exam Examination **Examination duration and** Examination at Kaunas Technical University scale Global Technology and Innovation Management & Entrepreneurship: Specialisation Technology Venturing (KTU): Compulsory Assignment for the **Following Curricula**

| Course L1955: Business Mod | els Innovation (KTU) |
|----------------------------|--|
| Тур | Lecture |
| Hrs/wk | 5 |
| СР | 5 |
| Workload in Hours | Independent Study Time 80, Study Time in Lecture 70 |
| Lecturer | Prof. Giedrius Jucevičius |
| Language | EN |
| Cycle | WiSe |
| 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 Managing organizational change to support value innovation Key concepts in change management |
| Literature | Overcoming the barriers to implementing value innovation 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 Successfu |

| Courses | | | | | |
|-----------------------------------|--|--|-------------------------|---------------|--|
| Title | | Тур | Hrs/wk | СР | |
| Technology Venturing (KTU) (L1956 |) | Lecture | 5 | 5 | |
| Module Responsible | Prof. Monika Petraite | | | | |
| Admission Requirements | None | | | | |
| Recommended Previous | General management theory (non-mandatory |) | | | |
| Knowledge | | | | | |
| Educational Objectives | After taking part successfully, students have r | reached the following learning results | | | |
| Professional Competence | | | | | |
| | able to generate business idea, and knows major business generation techniques, and is capable to build a technology venturi team corresponding to the competences desired, and team life cycle, as well as is capable to act as a business mentor for start-u. He (she) is knows the techniques of technological business opportunity search and evaluation, including market validati techniques, as well as business communication methods 2. The student is able to put technology venture in action, while executing technology business idea market validation, defining of to-market strategy and taking entrepreneurial marketing decisions, combined with agile product development and business id pivoting techniques. 3. The student is able to carry out financial planning and deal with venture capital issues; to carry out financing modelling a metrics, plan capitalization, manage venture capitalist relations and pitch business ideas to investors. | | | | |
| Skills | Ability to solve problems, carry out financial modelling and planning, pitch ideas, communicate with stakeholders. | | | | |
| Personal Competence | | | | | |
| Social Competence | Communication, team building, idea exchange in social groups. | | | | |
| Autonomy | Presentation and idea pitching skills, communication, business development. | | | | |
| Workload in Hours | Independent Study Time 80, Study Time in Lecture 70 | | | | |
| Credit points | 5 | | | | |
| Course achievement | None | | | | |
| Examination | Written exam | | | | |
| Examination duration and | Examination at Kaunas Technical University | | | | |
| scale | | | | | |
| Assignment for the | Global Technology and Innovation Manageme | nt & Entropropourching Enocialization To | choology Venturing (KTI | I): Compulson | |

| Course L1956: Technology Venturing (KTU) | | |
|--|---|--|
| Тур | Lecture | |
| Hrs/wk | 5 | |
| СР | 5 | |
| Workload in Hours | Independent Study Time 80, Study Time in Lecture 70 | |
| Lecturer | Prof. Monika Petraite | |
| Language | EN | |
| Cycle | WiSe | |
| Content | | |
| Literature | | |

| Module M1378: Busin | ess Valuation and Investor Relati | ons Management (KTU) | | | | |
|------------------------------------|--|---|---------------------------|-------------------|--|--|
| Courses | | | | | | |
| Title | | Тур | Hrs/wk | СР | | |
| Business Valuation and Investor Re | elations Management (KTU) (L1957) | Lecture | 10 | 10 | | |
| Module Responsible | Prof. Lina Užienė | | | | | |
| Admission Requirements | None | | | | | |
| Recommended Previous | General management theory (non-mandatory) | | | | | |
| Knowledge | | | | | | |
| Educational Objectives | After taking part successfully, students have read | ched the following learning results | | | | |
| Professional Competence | | | | | | |
| Knowledge | 1. To understand the essence of business valuati | on and be able to apply valuation me | thods within different co | ntexts. | | |
| | 2. To understand business financing principles ar | 2. To understand business financing principles and be able to reason the selection of business financing sources. | | | | |
| | 3. To understand the concept of business risks taken and be able to apply risk management methods. | | | | | |
| | 4. To understand principles of organization's communication and be able to develop relations with investors. | | | | | |
| Skills | Ability to solve problems, analyse case studies, apply valuation methods, pitch ideas, communicate with stakeholders | | | | | |
| Personal Competence | | | | | | |
| Social Competence | The students shall work in teams while solvir communication and idea exchange in social grou | • | s they will gain compe | tence in teamwork | | |
| Autonomy | Presentation skills, literature research, creative n | nethods' application. | | | | |
| Workload in Hours | Independent Study Time 160, Study Time in Lect | ure 140 | | | | |
| Credit points | 10 | | | | | |
| Course achievement | None | | | | | |
| Examination | Written exam | | | | | |
| Examination duration and | Examination at Kaunas Technical University | | | | | |
| scale | | | | | | |
| Assignment for the | Global Technology and Innovation Management | & Entrepreneurship: Specialisation Te | chnology Venturing (KTU |): Compulsory | | |
| Following Curricula | | | | | | |

| Course L1957: Business Valuation and Investor Relations Management (KTU) | | |
|--|---|--|
| Тур | Lecture | |
| Hrs/wk | 10 | |
| СР | 10 | |
| Workload in Hours | Independent Study Time 160, Study Time in Lecture 140 | |
| Lecturer | Prof. Lina Užienė | |
| Language | EN | |
| Cycle | WiSe | |
| Content | | |
| Literature | | |

| Courses | | | | | |
|------------------------------------|---|--|-------------------------|-------------------|--|
| Title | | Тур | Hrs/wk | СР | |
| Creative Decision Making (KTU) (L1 | 958) | Lecture | 5 | 5 | |
| Module Responsible | Inga Uus | | | | |
| Admission Requirements | None | | | | |
| Recommended Previous | General management theory (non-ma | indatory) | | | |
| Knowledge | | | | | |
| Educational Objectives | After taking part successfully, student | ts have reached the following learning results | | | |
| Professional Competence | | | | | |
| Knowledge | The students shall know the stages of creative decision making, they will be aware of different approaches to creative decision | | | | |
| | making as well as tactics and tools ap | plied in creative decision making. | | | |
| Skille | The students shall be able to choose appropriate ways to solve problems on individual and group levels, they shall be able t | | | | |
| SKIIIS | choose tactics and instruments in order the decision made could be considered creative. The students shall be able to analyse the | | | | |
| | way the decisions had been made and to recognize creative features of decisions made by others. The course attendants sha | | | | |
| | solve a real-life business problem in a creative way thus gaining practical skills in creative problem solving. | | | | |
| | | | itte problem borring. | | |
| Personal Competence | | | | | |
| Social Competence | The students shall work in teams whil | e solving a real-life problem, thus they will gain | competence in teamwor | k and idea exchan | |
| | in social groups. | | | | |
| Autonomy | Presentation skills, literature research | creative methods' application | | | |
| hatehenny | | | | | |
| Workload in Hours | Independent Study Time 80, Study Tir | me in Lecture 70 | | | |
| Credit points | 5 | | | | |
| Course achievement | None | | | | |
| Examination | Written exam | | | | |
| Examination duration and | Examination at Kaunas Technical Univ | versity | | | |
| scale | | | | | |
| Assignment for the | Global Technology and Innovation | Management & Entrepreneurship: Specialisat | tion Technology Venturi | ng (KTU): Electiv | |
| | Compulsory | | | | |

| Course L1958: Creative Decision Making (KTU) | | |
|--|---|--|
| Тур | Lecture | |
| Hrs/wk | 5 | |
| СР | 5 | |
| Workload in Hours | Independent Study Time 80, Study Time in Lecture 70 | |
| Lecturer | Inga Uus | |
| Language | EN | |
| Cycle | WiSe | |
| Content | | |
| Literature | | |

| Courses | | | | | |
|--|---|--|---|---------------------------------|--|
| litle | | Тур | Hrs/wk | СР | |
| nternational Management (KTU) (L | 1959) | Lecture | 5 | 5 | |
| Module Responsible | Prof. Jurgita Sekliuckiene | | | | |
| Admission Requirements | None | | | | |
| Recommended Previous | General management theory (non-man | datory) | | | |
| Knowledge | | | | | |
| Educational Objectives | After taking part successfully, students | have reached the following learning results | | | |
| Professional Competence Knowledge | understanding of the international man concerned. The national diversity is link | d of comparative international management. T agement processes, especially as far as the na ed with the innovation processes taking place ches to international comparative managem | ational cultural and insti in various socio-cultural | itutional diversity a contexts. | |
| | globalization and the remaining aspects 2. Knows the cultural and institutional p taking them into account while impleme | parameters of the diversity of international env | vironment of organizatio | ins, and is capable | |
| | | companies and organizations, understands th | ne international aspects | of leadership and | |
| | 4. Understands the international aspects of human resource management and is capable of applying them in organizational practice | | | | |
| | 5. Knows the strategies of entry into international markets, outsourcing and the aspects of managing the international value networks | | | | |
| | 6. Understands the functioning of inte competitive advantage of the firm | rnational networks of knowledge and innova | tion and their potentia | l contribution to t | |
| | 7. Knows the specifics of national s organizational strategies | ystems of management and innovation, an | id is capable of adapt | ing accordingly t | |
| | 8. Knows the main dimensions of cult capable of managing in the culturally di | aral diversity, understands potential areas of verse environments | coss-cultural conflicts a | nd synergies, and | |
| Skills | Case study, problem solving sessions | | | | |
| Personal Competence | | | | | |
| Social Competence | Teamwork | | | | |
| Autonomy | Presentation skills, literature research | | | | |
| Workload in Hours | Independent Study Time 80, Study Time | e in Lecture 70 | | | |
| Credit points | 5 | | | | |
| Course achievement | | | | | |
| Examination Examination duration and scale | Written exam Examination at Kaunas Technical Unive | rsity | | | |
| Assignment for the Following Curricula | 57 | anagement & Entrepreneurship: Specialisat | ion Technology Ventur | ing (KTU): Electiv | |

| Course L1959: International Management (KTU) | | |
|--|---|--|
| Тур | Lecture | |
| Hrs/wk | 5 | |
| СР | 5 | |
| Workload in Hours | Independent Study Time 80, Study Time in Lecture 70 | |
| Lecturer | Prof. Jurgita Sekliuckiene | |
| Language | EN | |
| Cycle | WiSe | |
| Content | | |
| Literature | | |

| Courses | | | | |
|-----------------------------------|--|--|--|---|
| ītle | | Тур | Hrs/wk | СР |
| ntellectual Property Management (| KTU) (L1960) | Lecture | 5 | 5 |
| Module Responsible | Prof. Lina Užienė | | | |
| Admission Requirements | None | | | |
| Recommended Previous | General management theory (non-r | nandatory) | | |
| Knowledge | | | | |
| Educational Objectives | After taking part successfully, stude | nts have reached the following learning results | | |
| Professional Competence | | | | |
| | module student will know and und Student will be able to manage the | es for creating international competitiveness of b erstand main IP exploitation strategies for increas processes of IP creation, exploitation and protect efficiency of creation and usage, to model the lease is. | ing international busin tion, to define the spec | ess competitivene ifics of IP objects, |
| | international competitiveness understand the operation of i 2. Know and understand sp management strategies ant t 3. Is able to analyse the envi intellectual property objects. 4. Is able to identify intellectu with regard to their legaliza | essence, importance and management peculiaritie s. Know the intellectual property objects, their r ntellectual property information system and its pos ecifics and methods of intellectual property object heir characteristics depending on the objects of loc ronment of intellectual property objects, using natio hal property objects, to evaluate them and to select cion, protections and usage aspects. Is able to sel and international legislations. | national and internatio sibilities in the business its evaluation, applied al or international prote- onal and international ir most efficient commer | nal legal protections. intellectual prope ection. oformation systems |
| Skills | Case study, problem solving sessior | is. | | |
| Personal Competence | | | | |
| Social Competence | Teamwork, debate, idea exchange i | n social groups. | | |
| Autonomy | Presentation skills, literature resear | ch, data collection, analyses and interpretation base | ed on gained theoretica | al concepts. |
| Workload in Hours | Independent Study Time 80, Study | Fime in Lecture 70 | | |
| Credit points | 5 | | | |
| Course achievement | None | | | |
| Examination | Written exam | | | |
| Examination duration and | Examination at Kaunas Technical U | iversity | | |
| scale | | | | |
| | | | | |

| Course L1960: Intellectual P | Course L1960: Intellectual Property Management (KTU) | | |
|------------------------------|--|--|--|
| Тур | Lecture | | |
| Hrs/wk | 5 | | |
| СР | 5 | | |
| Workload in Hours | Independent Study Time 80, Study Time in Lecture 70 | | |
| Lecturer | Prof. Lina Užienė | | |
| Language | EN | | |
| Cycle | WiSe | | |
| Content | | | |
| Literature | | | |

| Courses | | | | | |
|---|--|--|--|--|--|
| | | | 11 | | |
| Title Management of Organizational Netv | vorks (KTU) (11961) | Typ Lecture | Hrs/wk | CP 5 | |
| Module Responsible | | | - | - | |
| Admission Requirements | | | | | |
| | General management theory (non-m | andatory) | | | |
| Knowledge | , (| , | | | |
| Educational Objectives | After taking part successfully, studer | ts have reached the following learning results | | | |
| Professional Competence | | | | | |
| | and other types of inter-organization the students shall know core concep peculiarities of designing, creating a | knowledge of and experience in analyzing, devel al relationships and systems in diverse institution ts and theories in analyzing and managing organ and managing such inter-organizational structure such as clusters, national business systems, they vation, business and manufacturing. | nal contexts, upon com izational networks. The s. The students will als | pletion of the cour y will understand t o gain knowledge | |
| | The course provides with knowledge and skills in understanding origins and existence of contemporary organizational their context and main preconditions for the development. Generally this course emphasizes different methodologies, re approaches to organizational networks by pointing out its complexity in three levels - micro (inter-organizational aspe (clusters, etc.) and macro (social systems). | | | | |
| | activities in the network developmen in different contexts, they shall be a solving the identified problems. Th organizational clusters, they will kno are going on in clusters as well as dis | define the structure and the system of the relat it. The students will know and shall be able to ap ole to interpret research results in a broader socia e students will be able to understand the ev w the core concepts in cluster management, the scuss the value of clusters in wider national and in | ply business and entrep al context and prepare r olution, development a y will be able to describ iternational contexts. | preneurship mind-s recommendations f and management se the processes th | |
| | in the discussions on organizationa organizational networks, and they w identify strategic challenges, and pre | essional terms in the discussions on organization networks at the professional level. They will a II be able to manage core processes in organizati pare adequate responses based on smart use of ole to communicate effectively with people in r | s well be able to analy ional networks. The stuc key competences and a | vze core concepts dents shall be able bsorption of exter | |
| Personal Competence | | | | | |
| Social Competence | Multinational virtual team work (X-Cu | lture project) | | | |
| Autonomy | Co-working in a multicultural virtual | eam, project work, writing of an essay. | | | |
| Workload in Hours | Independent Study Time 80, Study T | me in Lecture 70 | | | |
| Credit points | 5 | | | | |
| Course achievement | None | | | | |
| Examination | Written exam | | | | |
| Examination duration and scale | Examination at Kaunas Technical Un | versity | | | |
| | | | | | |

| Course L1961: Management of Organizational Networks (KTU) | | |
|---|---|--|
| Тур | Lecture | |
| Hrs/wk | 5 | |
| СР | 5 | |
| Workload in Hours | Independent Study Time 80, Study Time in Lecture 70 | |
| Lecturer | Inga Uus | |
| Language | EN | |
| Cycle | WiSe | |
| Content | | |
| Literature | | |

see specific regulations

Assignment for the Global Technology and Innovation Management & Entrepreneurship: Thesis: Compulsory

Examination duration and

Following Curricula

scale

| | | Thesis | | | |
|-------------------------|---|-------------------------------|-----------------------------|------------------------------|--------------------|
| | | | | | |
| Module M-003: Maste | er Thesis | | | | |
| | | | | | |
| Courses | | | | | |
| Title | | | Тур | Hrs/wk | СР |
| Module Responsible | lt. FSPO | | | | |
| Admission Requirements | According to General Regi | ulations 821 (1). | | | |
| | · According to concrut Reg | | | | |
| | At least 60 credit points h | ave to be achieved in study | / programme. The examir | nations board decides on e | ceptions. |
| Recommended Previous | | | | | |
| Knowledge | | | | | |
| Educational Objectives | After taking part successfully, st | udents have reached the fo | llowing learning results | | |
| Professional Competence | | | | | |
| Knowledge | • The students can use sp | ocialized knowledge (facto | theories and mothods |) of their subject compete | antly on chocializ |
| | issues. | ecialized knowledge (lacts | , theories, and methods |) of their subject compete | entry on specializ |
| | The students can explain | n in depth the relevant a | pproaches and terminolo | ogies in one or more are | as of their subje |
| | | oments and taking up a cri | | - | |
| | • The students can place a | research task in their sub | oject area in its context a | and describe and critically | assess the state |
| | research. | | | | |
| | | | | | |
| | | | | | |
| Skills | The students are able: | | | | |
| | • To select, apply and, if ne | cessary, develop further m | ethods that are suitable f | or solving the specialized p | roblem in questio |
| | To apply knowledge they | have acquired and metho | ods they have learnt in t | he course of their studies | to complex and/ |
| | | lems in a solution-oriented | | | |
| | To develop new scientific | findings in their subject are | a and subject them to a o | critical assessment. | |
| Personal Competence | | | | | |
| Social Competence | Students can | | | | |
| | Both in writing and orally | outline a scientific issue | for an expert audience a | curately understandably | and in a structure |
| | way. | outline a scientine issue | or an expert addience a | | |
| | Deal with issues compete | ntly in an expert discussio | n and answer them in a | manner that is appropriat | e to the addresse |
| | while upholding their own | assessments and viewpoir | ts convincingly. | | |
| | | | | | |
| | | | | | |
| Autonomy | Students are able: | | | | |
| | • To structure a project of t | neir own in work packages | and to work them off acco | ordingly. | |
| | To work their way in dept | n into a largely unknown su | bject and to access the ir | formation required for the | m to do so. |
| | • To apply the techniques o | f scientific work comprehe | nsively in research of thei | r own. | |
| Workload in Hours | Independent Study Time 900, St | udy Time in Lecture 0 | | | |
| Credit points | | ady fine in Lecture 0 | | | |
| Course achievement | | | | | |
| Examination | | gulations | | | |
| | | , | | | |

Thesis