



Module Catalogue

Honours Degree in Technology Management

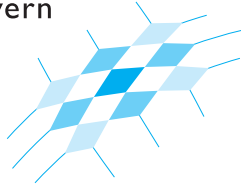
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CDTM0110: Trend Seminar in Digital Technologies and Management

General Information

Module Code:	CDTM0110
Module Title (ger.):	Trend Seminar in Digital Technologies and Management
Module Title (eng.):	Trend Seminar in Digital Technologies and Management
Module Level:	MSc
Abbreviation:	TS
Subtitle:	-
Duration:	1 Semester
Occurrence:	WS and SS
Language:	English
ECTS:	6

Workload

Contact Hours:	60
Self-study Hours:	120
Total Hours:	180

Achievements and Assessments

Description of Achievement
and Assessment Methods:

The Trend Seminar consists of the two phases, Basic Seminar and Scenario Planning Seminar. In order to lessen the examination load at the end of the Seminar 50% of the weighted course work are already assigned and evaluated after the first phase. The other 50% are assigned and evaluated at the end of the module. The trend seminar grade consists of a written assignment, presentations and continuous assessment and comprises of both individual and team assessment.

As the module grade results from various assignments, the weight of the several assignments will be announced in the first session of the module.

Type of Assessment:	oral and written
Duration of Assessment (min):	-
Homework:	no
Term Paper:	yes
Oral Presentation:	yes
Interview:	no
Retake next semester:	yes
Retake at the end of semester:	no



Description

Content:

Each semester students from diverse academic backgrounds collectively write a trend report on a certain topic in the field of emerging digital technologies. This trend report includes a status quo analysis, identification of trends, future developments as well as product or service ideas for the future.

Each student is assigned to a team to work on a certain perspective of the trend report topic. The resulting interdisciplinary teams ensure a thorough analysis of the trend report topic.

The Trend Seminar takes place in two phases:

- The Basic Seminar phase looks at the near future, summarizes the status quo and identifies upcoming trends. An interdisciplinary approach ensures that for example technological, economic, social, political, legal and environmental trends are taken into account. Each team has the task to research the topic from a different perspective and to summarize the findings in a report.
- In the Scenario Planning Seminar phase students build upon the trend analysis from the Basic Seminar phase and analyze the trend report topic with a perspective lying further in the future. They investigate possible developments in areas such as economy, technology, politics, law, environment or society in the future. Based on the results the teams develop innovative products or service ideas for which technical as well as business considerations are analyzed. The teams summarize their findings in a report.

Intended Learning Outcomes:

At the end of the Trend Seminar students are capable of understanding the challenges of working together in interdisciplinary project teams. They are able to apply trend and futures research methodology in a project team. They are able to create and give presentations and gain experience in working on extensive real world problems.

Specific learning outcomes for the Trend Seminar are as follows. Students are able to:

- distinguish between trend and futures research, as well as to apply portfolio related research methodologies
- analyze the status quo of a given topic and to apply the methods of an interdisciplinary trend analysis considering perspectives like economic, technological, social, environmental, political and legal frameworks under high time pressure
- apply the scenario planning methodology in real-world contexts in interdisciplinary project teams
- create possible future scenarios based on a driver analysis and understand the process of developing and describing an innovative product or service idea
- apply the basics of academic writing to document their work results in a comprehensive report in a short amount of time
- discuss topics in an interactive setup and elicit different opinions on the matter
- create and give trend and futures research result presentations
- accept and implement given feedback



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CDTM0110: Trend Seminar in Digital Technologies and Management

Prerequisites (recommended):

This module will be complemented by module CDTM0120, therefore students are requested to register for both modules at the same time.

Media:

PowerPoint, Reader, Flipchart, Films

Reading List:

N/A

Teaching and Learning Methods:

The Trend Seminar is designed as one comprehensive project with a predefined project plan aiming to create the Trend Report as final comprehensive result. This project is divided into two phases – Basic Seminar Phase and Scenario Planning Seminar Phase. In each phase the class is split into interdisciplinary project teams. The teams work independently towards fixed milestones, gain methodology and topic related knowledge in lectures and workshops, are guided by regular coaching sessions, present their results internally and to external project partners as well as get feedback on their learning outcomes.

Lectures: According to the current project phase lectures with external and internal lecturers from academia and industry teach the students the methodology necessary for working on the Trend Seminar project.

Topic Workshops: Experts from different fields of industry and academia with diverse interests and views on the Trend Seminar topic are invited to illustrate different approaches and impart insights from their professional point of view.

Coaching Sessions: Coaching Sessions are distributed along the whole Trend Seminar. In these Coaching Sessions the teams discuss their work with the course instructors and teaching assistants and get advice for possible areas of improvement.

Scenario Workshop: In this workshop students apply the whole process of the scenario planning methodology in a condensed timeframe.

Midterms: In this session students present their product or service ideas and have the opportunity to collect feedback from the class and the teaching assistants on the current status of their work.

Feedback Sessions: Students get feedback on their performance. Their written reports as well as their presentations are discussed in terms of their learning outcomes.

Person responsible

Forename:

Arnold

Surname:

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Lecturer:

Changing lecturers from the CDTM Management Team and Board of Directors as well as industry professionals and guest lecturers from academia.



Courses

1. Course

Type:	Seminar
Name:	Basics of Trend Research
Weekly hours (SWS):	2

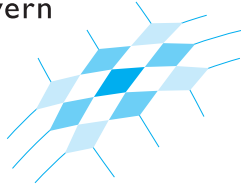
2. Course

Type:	Seminar
Name:	Scenario Planning Seminar in Digital Technology and Management
Weekly hours (SWS):	2

Assignment of Module to Program(s)

1. Program

Name:	Honours Degree in Technology Management
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CDTM0120: Facilitation I - Academic Trends and Futures Research in Interdisciplinary Teams

General Information

Module Code:	CDTM0120
Module Title (ger.):	Facilitation I
Module Title (eng.):	Facilitation I
Module Level:	MSc
Abbreviation:	FAC1
Subtitle:	Academic Trends and Futures Research in Interdisciplinary Teams
Duration:	1 Semester
Occurrence:	WS and SS
Language:	English
ECTS:	3

Workload

Contact Hours:	30
Self-study Hours:	60
Total Hours:	90

Achievements and Assessments

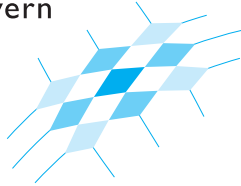
Description of Achievement and Assessment Methods:

The module grade results from a written and an oral assignment each of which makes up 50% of the final grade.

The oral assignment is a team presentation during which the individual as well as the team performance are graded. In addition to that the class participation of the individual students is taken into consideration.

The written assignment is a report about a predefined course related topic completed as homework.

Type of Assessment:	oral and written
Duration of Assessment (min):	-
Homework:	no
Term Paper:	yes
Oral Presentation:	yes
Interview:	no
Retake next semester:	yes
Retake at the end of semester:	no



Description

Content:

In the “Academic Trends and Futures Research in Interdisciplinary Teams” module students train soft skills and learn to apply tools and methods that are prerequisites for the Trend Seminar module. The “Academic Trends and Futures Research in Interdisciplinary Teams” module is therefore a compulsory, complementary module that takes place in parallel to the Trend Seminar.

Due to the interdisciplinary nature of the course, students with different foci in their main studies receive an introduction to topics of complementary fields of study. For example, a computer science student may receive an introduction into basic management tools.

Since the students work in teams, the necessary soft skills that improve the performance and results in team setups are introduced. These soft skills may include topics like team dynamics, feedback sessions, reflections on team experiences and presentation skills. The taught skills aim at allowing the students to productively work in a team environment as well as to present their work results in a professional fashion in a team presentation.

Students are taught how to present their research results in a written report in an academically correct way. This includes information on how to gain access to academic information, how to structure academic works, writing style and referencing.

Intended Learning Outcomes:

- Students from different main study backgrounds are able to apply tools from other fields of study to investigate and solve problems and to improve the ability to work in interdisciplinary teams.
- Students learn to adapt to changing team situations, to organize team work and to solve problems as a team.
- Students learn how to correctly present the results of academic work orally, in a professional presentation, as well as in written form, in a comprehensive report.

Prerequisites (recommended):

This module complements module CDTM0110, therefore students are requested to register for both modules at the same time.

Media:

PowerPoint, Reader, Flipchart, Films

Reading List:

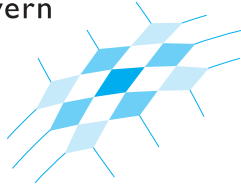
N/A

Teaching and Learning Methods:

The module consists of different workshops, lectures and coaching sessions which accompany the module.

In the lectures knowledge and skills about for example the basics of academic writing tools of interdisciplinary fields of study are conveyed to the students.

The workshops of this module engage the students to work together as teams in order to structure, solve and present a variety of tasks inside a strict time limit. Furthermore the students learn to apply theoretical frameworks to varying tasks and prepare an essay on a given topic. Finally the students are asked to critically reflect upon their own work and of the work of their peers learning to accept and implement feedback from both fellow students and course instructors.



Person responsible

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Lecturer:	Changing lecturers from the CDTM Management Team and Board of Directors as well as industry professionals and guest lecturers from academia.

Courses

1. Course

Type:	Workshop
Name:	Basics of Technology and Management
Weekly hours (SWS):	0,5

2. Course

Type:	Workshop
Name:	Basics of Academic Writing
Weekly hours (SWS):	0,5

3. Course

Type:	Workshop
Name:	Basics of Presentation
Weekly hours (SWS):	0,5

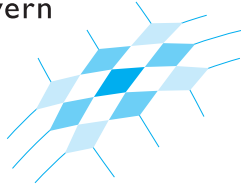
4. Course

Type:	Workshop
Name:	Basics of Team and Communication
Weekly hours (SWS):	0,5

Assignment of Module to Program(s)

1. Program

Name:	Honours Degree in Technology Management
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CDTM0210: Managing Product Development

General Information

Module Code:	CDTM0210
Module Title (ger.):	Managing Product Development
Module Title (eng.):	Managing Product Development
Module Level:	MSc
Abbreviation:	MPD
Subtitle:	-
Duration:	1 Semester
Occurrence:	WS and SS
Language:	English
ECTS:	6

Workload

Contact Hours:	60
Self-study Hours:	120
Total Hours:	180

Achievements and Assessments

Description of Achievement and Assessment Methods:

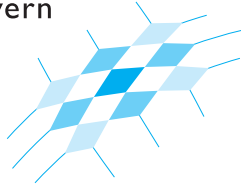
The overall course consists of lectures and a project. Assessment of examination comprises of several elements: weekly milestone presentations, performance in case study sessions, a technical documentation and project website. Whilst performance in case study sessions is an individual grade, the other two elements are graded per team (each student team consists of approx. 5 people). Furthermore, the performance within project team is evaluated.

The milestone presentations are components of a fixed product development process to which the students have to adhere to. Each student has to present at least one milestone. In the milestone presentations students prove that they have understood the challenges of their project as well as relevant context parameters. They show their creative and analytical skills via the project results and the associated thought process but also show their communicative competences by putting the results into appealing visualizations and giving the oral presentation in the class room.

Performance in case study sessions is assessed based on amount and quality of contribution to the discussion.

The technical documentation and project website has to be submitted by a deadline at the end of the term.

As the module grade results from various assignments, the weight of the several assignments will be announced in the first session of the module.



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CDTM0210: Managing Product Development

Type of Assessment:	oral and written
Duration of Assessment (min):	-
Homework:	no
Term Paper:	yes
Oral Presentation:	yes
Interview:	no
Retake next semester:	yes
Retake at the end of semester:	no

Description

Content:	<p>In this module participants are teamed up to groups of approx. 5 students with interdisciplinary background and work on a specific product development task brought in by an industry partner. During this project they get insights into important product development areas as for example:</p> <ul style="list-style-type: none"> • idea generation techniques • user need study techniques • techniques of market and competitor analysis • mockup demonstration techniques (paper based, PowerPoint based, small program) • technical implementation of prototypes • interdisciplinary team work
Intended Learning Outcomes:	<p>At the end of the module, students are able to apply the product development process on a specific technology project.</p> <p>In terms of business knowledge, they are able to analyze markets and user needs based on quantitative or qualitative survey data. Therefore they are able to analyze and evaluate user needs and to respond to these needs with suitable product features. Furthermore they understand the factors that are relevant for creating a new business opportunity.</p> <p>In terms of technical knowledge, students are able to conduct a technology assessment and to develop a prototype (at first a concept, later a functioning prototype).</p> <p>Due to the fact that students work in interdisciplinary teams, they experience challenges and opportunities of having various backgrounds and fields of expertise in a team and learn to apply useful project management tools.</p> <p>At the end of the case study discussions, students are able to understand product development challenges in various high-tech industries and to apply various strategies of problem solving.</p>
Prerequisites (recommended):	<p>This module will be complemented by module CDTM0220, therefore students are requested to register for both modules at the same time.</p>
Media:	PowerPoint, Reader, Flipchart, Films
Reading List:	N/A



Teaching and Learning Methods:

The module comprises a weekly seminar which is mostly divided into two parts: first a milestone presentation by students followed by a short feedback round, then either a case study discussion with an external lecturer (experts from industry or academia) or a project coaching. Between the sessions, students have to prepare the upcoming milestones, read related literature and attend facilitation workshops (see CDTM0220).

Teaching techniques:

- Lectures by industry experts
- Case Discussions
- Project work in a real company
- Team coachings

Learning activities:

- Research of relevant material
- Studying of documents
- Solving problems
- Collaboration with other students
- Production of reports
- Preparation and execution of presentations
- Application of project management tools and concepts
- Constructive criticism of own work
- Constructive criticism of other work
- Implementing criticism in a constructive way
- Working under time pressure
- Sticking to deadlines

Teaching methods:

- Presentations
- Group work
- Project work

Person responsible

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Lecturer:	Changing lecturers from the CDTM Management Team and Board of Directors as well as industry professionals and guest lecturers from academia.

Courses

1. Course

Type:	Seminar
Name:	Managing Product Development
Weekly hours (SWS):	4

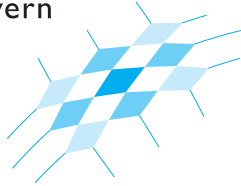


Assignment of Module to Program(s)

1. Program

Name:

Honours Degree in Technology Management



CDTM0220: Facilitation II - Skills and Tools Facilitating the Product Development Process

General Information

Module Code:	CDTM0220
Module Title (ger.):	Facilitation II
Module Title (eng.):	Facilitation II
Module Level:	MSc
Abbreviation:	FAC2
Subtitle:	Skills and Tools Facilitating the Product Development Process
Duration:	1 Semester
Occurrence:	WS and SS
Language:	English
ECTS:	3

Workload

Contact Hours:	30
Self-study Hours:	60
Total Hours:	90

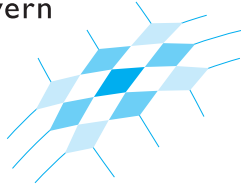
Achievements and Assessments

Description of Achievement and Assessment Methods:

Students demonstrate their progress by completing several practical assignments that are relevant to the product development cycle, e.g. creating a mockup or writing a business plan. The assignments are completed in interdisciplinary teams consisting of approximately 4-6 students. In addition, each team has to present the results in front of the participants of the course and the lecturers.

The overall grade for the module is comprised of attendance and participation in sessions (individual grade 50%), as well as the quality of the assignments and presentations (team grade 50%).

Type of Assessment:	oral and written
Duration of Assessment (min):	-
Homework:	no
Term Paper:	yes
Oral Presentation:	yes
Interview:	no
Retake next semester:	yes
Retake at the end of semester:	no



Description

Content:	<p>The module contains of several courses revolving around knowledge and abilities facilitating product development. The learning objectives are prerequisites for certain steps of the product development cycle taught in the Managing Product Development module. Accordingly, Facilitation II has to be taken in parallel to the MPD module (CDTM0210).</p> <p>Topics are aligned with certain steps of the product development cycle. The module includes topics that support these steps, such as project management, prototyping or business planning. According lectures demonstrate tools and techniques and impart knowledge and abilities enabling the efficient and substantiated execution of the different product development cycle steps.</p>
Intended Learning Outcomes:	<p>After successfully completing the module, students are well prepared to execute the product development process as taught in the MPD module. They are familiar with necessary tools and techniques and have acquired the relevant knowledge and abilities to perform the different steps of the product development cycle in an efficient and substantiated manner. Accordingly, the students possess all the prerequisites necessary for the MPD module.</p>
Prerequisites (recommended):	<p>This module complements module CDTM0210, therefore students are requested to register for both modules at the same time.</p>
Media:	<p>PowerPoint, Reader, Flipchart, Films</p>
Reading List:	<p>N/A</p>
Teaching and Learning Methods:	<p>The module consists of a number of lectures and practical assignments. The lectures introduce certain concepts, tools and techniques that have to be utilized in according assignments. The results of the assignments have to be turned in and presented in front of the other participants of the course and the lecturers.</p> <p>The lectures consist of a theoretical part that introduces relevant concepts, tools and techniques and a practical part that utilize case studies to demonstrate their usage. All lectures are designed to be highly interactive and require a high level of student participation.</p>

Person responsible

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Lecturer:	<p>Changing lecturers from the CDTM Management Team and Board of Directors as well as industry professionals and guest lecturers from academia</p>



Courses

1. Course

Type: Workshop
Name: Business Planning
Weekly hours (SWS): 1

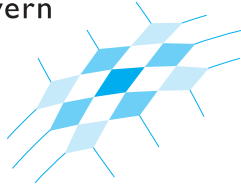
2. Course

Type: Workshop
Name: Human Computer Interaction
Weekly hours (SWS): 1

Assignment of Module to Program(s)

1. Program

Name: Honours Degree in Technology Management



CDTM0310: Entrepreneurship Laboratory

General Information

Module Code:	CDTM0310
Module Title (ger.):	Entrepreneurship Laboratory
Module Title (eng.):	Entrepreneurship Laboratory
Module Level:	MSc
Abbreviation:	ELAB
Subtitle:	-
Duration:	1 Semester
Occurrence:	WS and SS
Language:	English
ECTS:	6

Workload

Contact Hours:	60
Self-study Hours:	120
Total Hours:	180

Achievements and Assessments

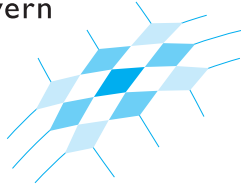
Description of Achievement and Assessment Methods:

The overall module consists of lectures and a project. The evaluation takes place via a participation & attendance grade, several presentations of the project throughout the semester and a project report at the end of the project. Furthermore, the performance within the project team is evaluated as well as the overall project success.

The participation and attendance grade encourages active involvement of students and ensures that students reflect lecture contents more intensively. The grade takes the degree of activity as well as the quality of contributions into account. Students thus learn not only from the lecturer but also from each other by bringing their own experiences, background and thought into the classroom.

In the several project presentations students prove that they have understood the challenges of their project as well as relevant context parameters. They show their creative and analytical skills via the project results and the associated thought process but also show their communicative competences by putting the results into appealing visualizations and giving the oral presentation in the class room.

The project report allows more detailed insights into the course of the analyses, the research, and calculations leading to the project results and give students the chance to show their writing skills as well to reflect and evaluate their own work in depth.



The “performance within teams” grade reflects students’ team competences, e.g. reliability, commitment and contribution to project success.

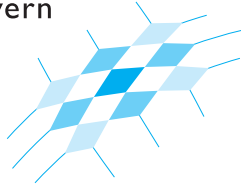
The evaluation of project results takes the value of the project that was created for the partner company into account.

As the module grade results from various assignments, the weight of the several assignments will be announced in the first session of the module.

Type of Assessment:	oral and written
Duration of Assessment (min):	-
Homework:	no
Term Paper:	yes
Oral Presentation:	yes
Interview:	no
Retake next semester:	yes
Retake at the end of semester:	no

Description

Content:	<ul style="list-style-type: none"> • Introduction to challenges when founding a company: evaluating business ideas, choosing the right team, adopting the right mindset, choosing an adequate legal form and financing strategy, writing a business plan • Hands-on experience in solving strategic problems in high-tech companies and coming up with clear recommendations • Exercises and coaching in project management and structuring content in a way that it can be easily grasped by recipients
Intended Learning Outcomes:	<ul style="list-style-type: none"> • Students have gained insights into problems of young companies. They know the advantages and disadvantages of different legal forms and financing methods. • Students are aware of the advantages and disadvantages of founding a company and have evaluated their own attitude towards risk and an entrepreneurial lifestyle. • Students are able to solve strategic problems in a systematic way by creating a solution space and then apply adequate filter criteria to end up with clear recommendations. • Students are able to organize their thoughts in a systematic way and communicate their findings in a precise and structured way
Prerequisites (recommended):	This module will be complemented by module CDTM0320, therefore students are requested to register for both modules at the same time.
Media:	PowerPoint, Reader, Flipchart, Films
Reading List:	N/A



Teaching and Learning Methods:

The module consists of weekly sessions where invited lectures introduce the students to a variety of perspectives on entrepreneurship as well as a real-life project for a company.

Project work is done in teams. The project work typically includes structuring a project analytically into different work packages or sub-problems, performing research e.g. via interviews or a document search.

For the project partner and for the module, students sum up their results in various presentations and written reports.

Student teams are regularly coached and receive feedback on their work and thus get the chance to implement criticism in a constructive way. After presentations students are asked for a constructive criticism of their own work first.

In team-internal feedback rounds students also provide feedback to and receive feedback from their peers.

Project work typically involves working under time pressure and the need to stick to deadlines and to communicate problems and necessary changes of direction in a responsible and professional way.

Teaching techniques:

- Lectures by industry experts and experienced entrepreneurs
- Project work in a real company
- Team coachings

Learning activities:

- Research of relevant material
- Studying of documents
- Solving problems
- Collaboration with other students
- Production of reports
- Preparation and execution of presentations
- Constructive criticism of own work
- Constructive criticism of other work
- Implementing criticism in a constructive way
- Working under time pressure
- Sticking to deadlines

Teaching methods:

- Presentations
- Group work
- Project work

Person responsible

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Lecturer:	changing lecturers from the CDTM Management Team and Board of Directors as well as industry professionals and guest lecturers from academia



Courses

1. Course

Type:	Seminar
Name:	Entrepreneurship Laboratories
Weekly hours (SWS):	4

Assignment of Module to Program(s)

1. Program

Name:	Honours Degree in Technology Management
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CDTM0320: Facilitation III - Professional Communication and Business Modeling

General Information

Module Code:	CDTM0320
Module Title (ger.):	Facilitation III
Module Title (eng.):	Facilitation III
Module Level:	MSc
Abbreviation:	FAC3
Subtitle:	Professional Communication and Business Modeling
Duration:	1 Semester
Occurrence:	WS and SS
Language:	English
ECTS:	3

Workload

Contact Hours:	30
Self-study Hours:	60
Total Hours:	90

Achievements and Assessments

Description of Achievement
and Assessment Methods:

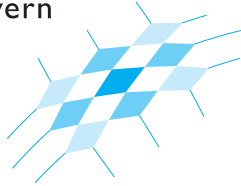
The module grade results from various components. The overall topic is professional communication and business modeling.

The grading is based on class participation and a written assignment.

The participation grade encourages active involvement of students and ensures that students reflect lecture contents more intensively. The grade takes the degree of activity as well as the quality of contributions into account. Students thus learn not only from the lecturer but also from each other by bringing their own experiences, background and thought into the classroom.

The written assignment gives students the chance to apply theoretical knowledge from the workshops and transfer it to their own situation of their project work.

As the module grade results from various assignments, the weight of the several assignments will be announced in the first session of the module



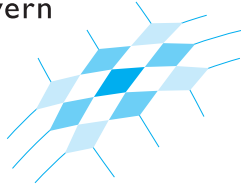
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CDTM0320: Facilitation III - Professional Communication and Business Modeling

Type of Assessment:	oral and written
Duration of Assessment (min):	-
Homework:	no
Term Paper:	yes
Oral Presentation:	yes
Interview:	no
Retake next semester:	yes
Retake at the end of semester:	no

Description

Content:	<ul style="list-style-type: none"> Theoretical frameworks in the areas of communication (e.g. the Minto Pyramid Principle), moderation, interview techniques, leadership, negotiation and business planning Application of theoretical frameworks in real life and project work Advice how to structure and design a business model and to implement it
Intended Learning Outcomes:	<ul style="list-style-type: none"> Students are able to reflect their own behavior in professional situations such as meetings, interviews and negotiations and can apply theoretical frameworks to evaluate and structure the situation and act appropriately. Students are able to understand the special context of professional communication, e.g. summarizing relevant information in a short time and structuring information in a clear and concise way. Students are able to structure and conceptually design business models, to evaluate and implement them.
Prerequisites (recommended):	This module complements module CDTM0310, therefore students are requested to register for both modules at the same time.
Media:	PowerPoint, Reader, Flipchart, Films
Reading List:	N/A



Teaching and Learning Methods:

The module consists of several workshops and exercises throughout the semester. Invited lecturers with experience in trainings from industry make the students familiar with various theoretical as well as practical concepts within the framework of workshops, coaching and project work.

Students have to work on real business problems and case studies. In order to successfully solve those problems the students have to cooperate within teams, have to criticize their own work and the work of the other team members. Furthermore they have to work under time pressure. The group work and several experiments also make the students reflect on their own behavior.

Teaching techniques:

- Workshops
- Coachings
- Projects

Learning activities:

- Working on problems and solving these
- Cooperation with other students within teams
- Compilation of reports and presentations
- Working on case studies
- Constructive criticism of own work and of others
- Work under time pressure
- Reflections on own behavior
- Being on time

Teaching method:

- Co-teaching
- Individual work
- Group work
- Case studies
- Presentations
- Question developing method
- Lecture units
- Experiments

Person responsible

Forename:	Dietmar
Surname:	Harhoff
Email:	course-management@cdtm.de
Lecturer:	Changing lecturers from the CDTM Management Team and Board of Directors as well as industry professionals and guest lecturers from academia.



Courses

1. Course

Type: Workshop
Name: Business Modeling
Weekly hours (SWS): 1

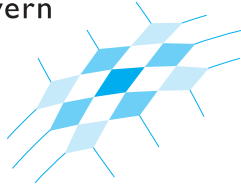
2. Course:

Type: Workshop
Name: Entrepreneurial Negotiation
Weekly hours (SWS): 1

Assignment of Module to Program(s)

1. Program

Name: Honours Degree in Technology Management



CDTM0410: Interdisciplinary Competences

General Information

Module Code:	CDTM0410
Module Title (ger.):	Interdisciplinary Competences
Module Title (eng.):	Interdisciplinary Competences
Module Level:	MSc
Abbreviation:	InCo
Subtitle:	-
Duration:	3 Semesters
Occurrence:	WS and SS
Language:	English
ECTS:	6

Workload

Contact Hours:	60
Self-study Hours:	120
Total Hours:	180

Achievements and Assessments

Description of Achievement and Assessment Methods:

The module consists of various courses that can be selected by the students, e.g. workshops, lectures, project work, etc.

The students will attend and participate in various courses that complete their studies of Technology Management by addressing interdisciplinary competences.

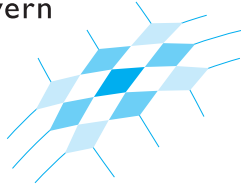
The assessment varies according to the specific course within the module. This could be a written assignment, participation and attendance, group work, presentations, etc. or combinations out of these.

Within this module students will have to work under time pressure and stick to deadlines.

The participation and attendance encourages an active involvement of students.

Within this module students learn not only from the lecturers and instructors but also from each other by bringing their own experiences, background and thought into the class.

For further Information about the assessment visit <http://my.cdtm.de>



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CDTM0410: Interdisciplinary Competences

Type of Assessment:	oral and written
Duration of Assessment (min):	-
Homework:	no
Term Paper:	yes
Oral Presentation:	yes
Interview:	no
Retake next semester:	yes
Retake at the end of semester:	no

Description

Content:	<p>The module consists of various courses that are related to the topic of Technology Management. The intention is to offer a set of elective courses that complete the program Technology Management.</p> <p>In order to do so the offered courses cover different topics, e.g. Technologies, Product Development and Engineering, Information Systems Management, Economics, Management and Entrepreneurship as well as Interpersonal Skills.</p> <p>For further information about the courses visit http://my.cdtm.de</p>
Intended Learning Outcomes:	<ul style="list-style-type: none"> • Students have gained insights into problems and topics that are related to the field of Technology Management. • Students are aware of their role within a group that manages a project over a period of time. • Students are able to take responsibility for their work and to work under time pressure and stick to deadlines. • Students remember various aspects as far as Technology Management is concerned with respect of an interdisciplinary and international environment.
Prerequisites (recommended):	N/A
Media:	PowerPoint, Reader, Flipchart, Films
Reading List:	N/A



Teaching and Learning Methods:

The module consists of various courses that can be selected by the students. Therefore the learning and teaching methods accordingly vary.

Teaching methods:

- Project work
- Lectures
- Exercises
- Workshops
- Research seminars
- Case studies
- Coaching

Learning activities:

- Solving problems
- Literature review
- Production of reports, written assignments
- Preparation and giving of presentations
- Collaboration with other students
- Constructive criticism of own work
- Constructive criticism of other work
- Implementing criticism in a constructive way
- Working under time pressure
- Sticking to deadlines

Person responsible

Forename:	Dieter
Surname:	Kranzmüller
Email:	course-management@cdtm.de
Lecturer:	Changing lecturers from the CDTM Management Team and Board of Directors as well as industry professionals and guest lecturers from academia.

Courses

1. Course For further information about the courses visit <http://my.cdtm.de>

Assignment of Module to Program(s)

1. Program

Name: Honours Degree in Technology Management



CDTM0510: Project Management in Practice

General Information

Module Code:	CDTM0510
Module Title (ger.):	Project Management in Practice
Module Title (eng.):	Project Management in Practice
Module Level:	MSc
Abbreviation:	PMP
Subtitle:	-
Duration:	4 Semesters
Occurrence:	WS and SS
Language:	English
ECTS:	3

Workload

Contact Hours:	60
Self-study Hours:	30
Total Hours:	90

Achievements and Assessments

Description of Achievement and Assessment Methods:

The module takes place throughout the semester and consists of practical work in project management. The students work in teams on a concrete project within the context of the Technology Management program. The overall module consists of project related meetings and project work. Students will have to work under time pressure and stick to deadlines.

As the module will be considered as Coursework (Studienleistung) it will not be graded.

Students will accordingly gain their credits designated for this module via participation and attendance as well as the successful outcome of the specific project.

The participation and attendance encourages active involvement of students.

Within this module students learn not only from the lecturer (scientific assistant who is the project leader) but also from each other by bringing their own experiences, background and thought into the project.

Students accordingly will gain their credits designated for this module via a confirmation by the respective coach and a project documentation.



Type of Assessment:	Semester Project
Duration of Assessment (min):	-
Homework:	-
Term Paper:	-
Oral Presentation:	-
Interview:	-
Retake next semester:	yes
Retake at the end of semester:	no

Description

Content:	<ul style="list-style-type: none"> • Introduction to a specific project and corresponding tasks, e.g. organization of events with several stakeholders such as internal and external guests, speakers, etc. • Hands-on experience in a specific project within the framework of the Technology Management program. • Coaching in management of the specific project.
Intended Learning Outcomes:	<ul style="list-style-type: none"> • Students have gained insights into problems of managing projects in practice. • Students are aware of their role within a group that manages a project over a period of time. • Students are able to take responsibility for an important real world project and to work under time pressure. • Students are able to manage projects with several stakeholders involved in a hands-on approach and stick to deadlines. • Students are able to manage a project within an interdisciplinary team by organizing it from the initial idea until its successful realization.
Prerequisites (recommended):	N/A
Media:	PowerPoint, Reader, Flipchart, Films
Reading List:	N/A



Teaching and Learning Methods:

The module usually consists of a kickoff-session at the beginning of the semester. At this session the project leader (scientific assistant) describes a specific project with corresponding tasks that shall be successfully worked on by the students throughout the semester. During the semester there are several status update meetings where the student team informs the project leader about the status of the project and planned activities.

The students mostly have to manage the projects themselves and are thus forced to take over responsibility for their actions and also to reasonably take decisions within the context of their specific projects.

As the projects consistently are real projects in practice, the students will get immediate feedback on their performance and thus will be able to directly experience the success of their projects.

Teaching activities:

- Project work on a real world project
- Team coaching

Learning activities:

- Solving problems
- Collaboration with other students
- Production of deliverables related to the project
- Preparation and execution of decisions
- Constructive criticism of own work
- Constructive criticism of other work
- Implementing criticism in a constructive way
- Working under time pressure
- Sticking to deadlines

Teaching method:

- Group work
- Project work

Person responsible

Forename:	Dieter
Surname:	Kranzlmüller
Email:	course-management@cdtm.de
Lecturer:	Changing lecturers from the CDTM Management Team and Board of Directors as well as industry professionals and guest lecturers from academia.

Courses

1. Course

Type:	Project
Name:	Project Management in Practice
Weekly hours (SWS):	2



Assignment of Module to Program(s)

1. Program

Name:

Honours Degree in Technology Management



CDTM0520: Interdisciplinary International Experiences and Qualifications

General Information

Module Code:	CDTM0520
Module Title (ger.):	Interdisciplinary International Experiences and Qualifications
Module Title (eng.):	Interdisciplinary International Experiences and Qualifications
Module Level:	MSc
Abbreviation:	IIEQ
Subtitle:	-
Duration:	1 Semester
Occurrence:	WS and SS
Language:	English
ECTS:	9

Workload

Contact Hours:	135
Self-study Hours:	135
Total Hours:	270

Achievements and Assessments

Description of Achievement and Assessment Methods:

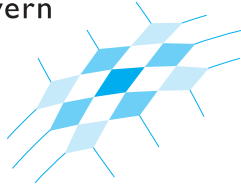
The module consists of a stay abroad with a minimum length of 4 months. This international experience can either be an academic stay abroad or a professional practical work, e.g. an international internship.

As the module will be a Coursework (Studienleistung) it will not be graded.

Students accordingly will gain their credits designated for this module via a confirmation of completion by the respective organization abroad and an experience report.

CDTM does not expect full time studies or full time work placements during the course of the stay abroad.

Type of Assessment:	Experience report
Duration of Assessment (min):	-
Homework:	-
Term Paper:	-
Oral Presentation:	-
Interview:	-
Retake next semester:	yes



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CDTM0520: Interdisciplinary International Experiences and Qualifications

Retake at the end of semester: no

Description

Content:	<ul style="list-style-type: none"> Academic or professional stay abroad. Interdisciplinary international experiences.
Intended Learning Outcomes:	<ul style="list-style-type: none"> Students are able to understand, communicate with, and effectively interact with people across cultures Students are able to professionally work within an international environment Students are able to take responsibility for themselves within an international setting
Prerequisites (recommended):	N/A
Media:	N/A
Reading List:	N/A
Teaching and Learning Methods:	As the module consists of a stay abroad (either academic or professional) the offered teaching and learning methods vary accordingly.

The students mostly have to manage their stay abroad themselves (their course work or projects) and are thus forced to take over responsibility for their actions and also to reasonably take decisions within the international context.

Teaching activities:

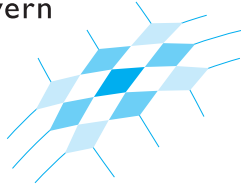
- Project work
- Seminar
- Lecture
- Practical work
- Team coaching

Learning activities:

- Solving problems
- Collaboration with other students
- Review of literature
- Preparation and execution of decisions
- Constructive criticism of own work
- Constructive criticism of other work
- Implementing criticism in a constructive way
- Working under time pressure
- Sticking to deadlines

Teaching method:

- Group work
- Project work
- Presentation
- Case study



Person responsible

Forename:	Dieter
Surname:	Kranzlmüller
Email:	course-management@cdtm.de
Lecturer:	N/A

Courses

1. Course

- | | |
|---------------------|-----|
| Type: | N/A |
| Name: | N/A |
| Weekly hours (SWS): | N/A |

Assignment of Module to Program(s)

1. Program

- | | |
|-------|---|
| Name: | Honours Degree in Technology Management |
|-------|---|