

**Curriculum
for
Business Economics
and
Information Technology**

University of Southern Denmark
August 2012

General regulations for all institutions providing the programme

Curriculum

Applicable for Business Economics and Information Technology

The curriculum for the Business Economics and Information Technology programme has been prepared on the basis of the guidelines in the Executive Order no 774 of 4 July 2012 on the Bachelor's Degree Programme for Business Economics and Information Technology.

The programme, a full-time course, comprises 3 1/2 student years. One student year is equivalent to a full-time student's work in one year. A student year is equivalent to 60 points in the European Credit Transfer System (ECTS points). The official duration of the study programme is 210 ECTS points.

The Programme Is Governed by the Following Acts and Orders

- Act no 207 of 31 March 2008 on Academy Profession degree programmes and Professional Bachelor programmes
- Executive Order on Academy Profession and Professional Bachelor programmes: no 636 of 29 June 2009
- Executive Order no 774 of 4 July 2012 on the Bachelor's Degree Programme for Business Economics and Information Technology
- Executive Order no 1146 of 1 October 2010 on quality assurance of vocational programmes in further education
- Executive Order no 214 of 21 February 2012 on access to Academy Profession Degree programmes and Professional Bachelor programmes
- Executive Order no 714 of 27 June 2012 on examination regulations
- Executive Order no 262 of 20 March 2007 on marking scale and other types of evaluation
- Executive Order no 684 of 27 June 2008 on accreditation and approval of Academy Profession degree programmes and Professional Bachelor programmes

The acts and orders are accessible under www.fivu.dk.

Titles of Programme and Graduates

The title of the programme is Bachelor programme for Business Economics and Information Technology. The Graduates are entitled to call themselves Bachelor of Business Economics and Information Technology

Programme Objectives

The purpose of the Business Economics and Information Technology programme is to qualify the graduate to solve issues related to business economy, socio economy and information technology in private and public organizations; but also to participate in cross-disciplinary collaboration.

Model for Acquiring Competences

The objective of the programme is to make the student acquire a number of core competences, which will give the student a basis for continuous learning and for solving the tasks of the future in a globalised

knowledge society.

The student acquires learning competence and conceptual competence, which will enable the student to independently develop professionally and in general.

The student acquires innovative competence by focusing on flexibility and adaptation of solutions to current professional conditions.

The student acquires relational competences – the capability to function in networks and communicate in complex and flat structures – by independently taking on responsibilities which make the student able to develop his/her professional identity.

Teaching and learning

The teaching style on the Business Economics & Information Technology programme is a dynamic, interactive process where there is emphasis on the students' active participation. The students assume responsibility for their own learning process alongside active input from the teaching staff. The teaching is a combination of class teaching, project work in groups and individual work, most often with interdisciplinary problems to solve.

To ensure the optimum subject learning and personal development for each individual student, the Business Economics & Information Technology programme uses a variety of teaching methods with an emphasis on dialogue, discussion and projects. The teaching is organised using a variety of methods such as class teaching, working in teams, interdisciplinary cases, team work, guest lecturers, organisation visits and project work.

Business Economy and IT, Programme model

1.-4. semester, Compulsory elements				5. semester Specialization and internationalization	6. semester Internship	Compulsory elements
1. semester: Introduction to IT and business	2. semester: Alignment of IT and business	3. semester: Strategy and relations	4. semester: Business processes and PM			7. semester: Bachelor project
Microeconomics 5 ECTS	Macroeconomics 5 ECTS	Business strategy 1 10 ECTS	Business strategy 2 10 ECTS	Optional modules, 30 ECTS The student selects Economy, IT and/or integration courses. OR Studying abroad.	Internship 30 ECTS	Philosophy of science and project methodology 10 ECTS
Business economics and organization 1 10 ECTS	Business economics and organization 2 10 ECTS		Information Technologies 2 5 ECTS			
Software construction 1 5 ECTS	Software construction 2 5 ECTS	Information Technologies 1 5 ECTS	Systems development 4 10 ECTS			
Systems development 1 5 ECTS	Systems development 2 5 ECTS	Systems development 3 10 ECTS				
Communication and presentation 5 ECTS	International business law 5 ECTS		Innovation and Entrepreneurship 5 ECTS			

Legend, Core Subjects

Socioeconomics	Business Economics	Information technology	Auxiliary subjects	Specialization	Bachelor project
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Business Economics and Information Technology core subjects

Socioeconomics (10 ECTS)

Content: Microeconomics, macroeconomics, international descriptive economics, global economic structures, and international market structures

Learning objectives

Knowledge and understanding

The student has development based knowledge and understanding about and can reflect on applied theories and methodologies regarding

- 1) micro- and macroeconomics and the nature of economic reasoning
- 2) business internationalization in a socioeconomic perspective

Skills

The student masters skills regarding the application of

- 1) the cycle of economics in market economies in a national as well as an international perspective in order to select relevant solution models
- 2) a comprehensive set of economic theories and methods in the global environment analysis and are able to justify and choose relevant solution models
- 3) the evaluation and analysis of a business internationalization process from a practice-oriented and theoretical perspective
- 4) the communication of practice-oriented and academic issues regarding micro- and macroeconomics to collaboration partners and users

Competences

The student is able to handle complex and development-oriented situations regarding

- 1) the development in the global political and financial environment and creating a synthesis
- 2) the independent participation in the analysis of global economic trends and parameters and is able to reflect on their influence on markets and business within the framework of professional ethics
- 3) combining the perspectives of local business with a global macroeconomic understanding

- 4) identifying own learning needs and developing own knowledge, skills, and competences in relation to the micro- and macroeconomics and the the cycle of economics in market economies

Business Economics (45 ECTS)

Content: Organization theories and practice, internal and external accounting methods, international marketing, business process optimization, business strategy, management, and strategic planning of information systems.

Learning objectives

Knowledge and understanding

The student has development based knowledge and understanding about and can reflect on applied theories and methodologies regarding

- 1) organization and management theories and models
- 2) internal and external accounting theories and methods
- 3) international marketing economy and basic communication strategies
- 4) supply chain management and business processes
- 5) business optimization and systems integration
- 6) international management and development
- 7) business strategy
- 8) strategic planning of information systems

Skills

The student masters skills regarding the application of

- 1) organizational theories and models in order to reflect on and evaluate organizational practice
- 2) theory and methods of internal and external accounting principles as well as selecting relevant solutions in a business context
- 3) theory and methods of international marketing strategy and communication
- 4) theory and methodologies to analyze, design, and plan business processes
- 5) theory and methodologies to the planning of strategic information systems
- 6) theory and methodologies to develop and participate in implementation of business strategies
- 7) the communication of practice-oriented and academic issues regarding business economics, management, accounting, and international marketing to collaboration partners and users

Competences

The student is able to handle complex and development-oriented situations regarding

- 1) designing and participating in international organizational change processes from creation of strategy to implementation.
- 2) independently participating in accounting tasks and measuring the results
- 3) developing and executing marketing plans, analysis and strategies
- 4) creating and implementing an IT strategy
- 5) designing, planning, and implementing IT processes, services, and products
- 6) identifying own learning needs and developing own knowledge, skills, and competences in relation to business economics, management, accounting, and international marketing

Information technology (50 ECTS)

Content: IT systems development, IT project management, design and management of IT-systems and -processes in organizations, software development involving algorithms, databases and user interfaces, testing, and user involvement

Learning objectives

Knowledge and understanding

The student has development based knowledge and understanding about and can reflect on applied theories and methodologies regarding

- 1) pre-analysis, analysis, and design of activities in system development
- 2) management, planning and quality assurance in IT system life cycle processes
- 3) information technology and software application in organizations
- 4) system architecture
- 5) usability testing and user experience

Skills

The student masters skills regarding the application of

- 1) programming theory and methods, involving algorithms, databases and user interfaces

- 2) theory and methodologies for data modeling, database design, design of user interfaces, quality assurance processes, project planning and management
- 3) methodologies to plan and specify system requirements and system architecture integrating knowledge from organization theory and business strategy
- 4) theory and methods to analyze user behaviour and needs, test usability, and create user experience
- 5) the communication of practice-oriented and academic issues regarding planning, developing, designing and implementing IT-systems and processes to collaboration partners and users

Competences

The student is able to handle complex and development-oriented situations regarding

- 1) constructing information systems involving algorithms, databases, and user interface
- 2) planning, coordinating and managing information system projects, involving interdisciplinary collaboration with e.g. users and stakeholders
- 3) constructing data models and database designs
- 4) evaluating and testing information technology and integrating quality assurance in system development processes
- 5) designing a system architecture
- 6) creating system requirement specifications
- 7) identifying own learning needs and developing own knowledge, skills, and competences in relation to planning, developing, designing and implementing IT-systems and processes

Auxiliary subjects (25 ECTS)

Content: Communication and presentation technique, team collaboration, international IT- and business law, entrepreneurship and innovation processes, and philosophy of science

Learning objectives

Knowledge and understanding

The student has development based knowledge and understanding about and can reflect on applied theories and methodologies regarding

- 1) communication and presentation technique
- 2) philosophy of science
- 3) social science, international law, and ethics

- 4) entrepreneurship and innovation

Skills

The student masters skills regarding the application of

- 1) identifying appropriate communication methods to complex target groups
- 2) philosophy of science to project work and selecting relevant theories and solution models
- 3) theories and methods from social science, international law, and ethics to global business and information technology
- 4) theories and methods to design creative and innovative business processes, services and products
- 5) the communication of practice-oriented and academic issues regarding business law, entrepreneurship, innovation, and ethics to collaboration partners and users

Competences

The student is able to handle complex and development-oriented situations regarding

- 1) communicating technical information orally and in writing to complex target groups
- 2) developing, planning, and facilitating creative and innovative business processes
- 3) developing a business plan for a knowledge intensive organization
- 4) identifying legal issues concerning international business and information technology
- 5) identifying own learning needs and developing own knowledge, skills, and competences in relation to communication, business law, entrepreneurship, innovation, and professional ethics

1. semester

Socioeconomics

Microeconomics (5 ECTS)

Content: Essential economics, basic microeconomics, market structure, and efficiency.

Learning objectives

Knowledge and understanding:

The student has development based knowledge and understanding about and can reflect on applied theories and methodologies regarding

- 1) core concepts of economics, economic reasoning, and economic systems
- 2) supply and demand, consumer and producer behaviour, the price mechanism, and market structures
- 3) microeconomic policies, market efficiency, and the impact of market interventions on efficiency

Skills:

The student masters skills regarding the application of

- 1) microeconomic theories and models of demand and supply including methods to analyze producer and consumer surplus, and short-term and long-term economic profits
- 2) theories and methods to analyze the market efficiency and the impact of market interventions on efficiency
- 3) selecting and presenting relevant microeconomic solution models to collaboration partners and users

Competences:

The student is able to handle complex and development-oriented situations regarding

- 1) the independent participation in an organization's decision making based on economic understanding and the analysis of market efficiency, costs, and benefits
- 2) identifying own learning needs and developing own knowledge, skills, and competences in relation to the microeconomic discipline

Business economics

Business economics and organization 1 (10 ECTS)

Content: Organization theory, accounting models and theories, project organization and budgeting

Learning objectives

Knowledge and understanding:

The student has development based knowledge and understanding about and can reflect on applied theories and methodologies regarding

- 1) organization structure and culture
- 2) project organization and the financial aspects of project management
- 3) internal accounting methods

Skills:

The student masters skills regarding the application of

- 1) theory and models to analyze organizational structure and culture, including the differences between knowledge-intensive companies and manufacturing companies
- 2) theory and methods to establish and manage project organizations
- 3) internal accounting methods, including the financial aspects of projects
- 4) selecting and presenting relevant solution models regarding organization structures and culture, internal accounting, as well as project organization and budgeting to collaboration partners and users

Competences:

The student is able to handle complex and development-oriented situations regarding

- 1) identifying formal and informal characteristics of organization structures and culture and analyzing their impact on individuals and teams
- 2) planning and managing the financial aspect of simple projects using basic accounting methods
- 3) identifying own learning needs and developing own knowledge, skills, and competences in relation to business economics and organization

Information Technology Software construction 1 (5 ECTS)

Content: Introduction to software construction and programming, programming languages, program quality, simple algorithms

Learning objectives

Knowledge and understanding

The student has development based knowledge and understanding about and can reflect on applied theories and methodologies regarding

- 1) the description of the syntax and semantics of a programming language
- 2) structure in programs
- 3) simple algorithms
- 4) classic data structures
- 5) program quality criteria

Skills

The student masters skills regarding the application of

- 1) theories and methods to structure the realization of simple algorithms and data structures in a programming language
- 2) theories and methods to define program quality criteria and debug own programs
- 3) the communication of practice-oriented and academic issues regarding program quality and simple algorithms to collaboration partners and users

Competences

The student is able to handle complex and development-oriented situations regarding

- 1) the construction of a simple program from a program specification
- 2) planning of programming activities and quality assurance in software construction
- 3) identifying own learning needs and developing own knowledge, skills, and competences in relation to simple software construction and programming

Information Technology Systems development 1 (5 ECTS)

Content: Development models, project models, project management, user involvement, and test

Learning objectives

Knowledge and understanding

The student has development based knowledge and understanding about and can reflect on applied theories and methodologies regarding

- 1) development methods for software construction and their relation to IT project models
- 2) the structure and design of information systems, including modeling of information flows
- 3) user involvement and testing in software development
- 4) basic project management methods

Skills

The student masters skills regarding the application of

- 1) theory and methods of software development in the planning of simple development processes
- 2) quantitative and qualitative methods in user research
- 3) methods to plan simple test activities
- 4) theories and methods about the design of information systems and the modeling of information flows in software development processes
- 5) selecting and presenting relevant solution models regarding the structure and design of information systems to users and collaboration partners

Competences

The student is able to handle complex and development-oriented situations regarding

- 1) the modeling of information flows and the design of simple information systems
- 2) planning and coordinating a software development project
- 3) conducting user research based on quantitative and qualitative methods
- 4) identifying own learning needs and developing own knowledge, skills, and competences in relation to systems development

Auxiliary subjects

Communication and Presentation Technique (5 ECTS)

Content: Conceptual and technical communication, study technique, international collaboration processes in a project context

Learning objectives

Knowledge and understanding

The student has development based knowledge and understanding about and can reflect on applied theories and methodologies regarding

- 1) written and oral communication and presentation techniques in an international context
- 2) study technique and academic methods
- 3) intercultural relations and collaboration processes

Skills

The student masters skills regarding the application of

- 1) communication theories and methods in order to produce conceptual and technical communication aimed at international target groups
- 2) theories and methods to the establishment of project organizations and understanding of collaborative processes in an intercultural context
- 3) academic methods in oral and written communication
- 4) selecting and presenting relevant solution models regarding the establishment of intercultural project organizations to collaboration partners

Competences

The student is able to handle complex and development-oriented situations regarding

- 1) producing conceptual and technical communication directed at complex target groups
- 2) independently planning and monitoring collaboration practices and team roles in an international project organization
- 3) reflecting on own academic practice and learning strategies

2. semester

Socioeconomics

Macroeconomics (5 ECTS)

Content: Basic macroeconomics, international descriptive economics, global economic structures, and international trade

Learning objectives

Knowledge and understanding:

The student has development based knowledge and understanding about and can reflect on applied theories and methodologies regarding

- 1) macroeconomic models and reasoning concerning the determination and relationship between national income, unemployment, inflation and other macroeconomic objectives
- 2) international descriptive economics, international trade, and the balance of payments
- 3) differences in strategic choices in relation to macroeconomic objectives

Skills:

The student masters skills regarding the application of

- 1) basic macroeconomic theories and methods in order to analyze macroeconomic objectives, including international trade and the balance of payments
- 2) the communication of practice-oriented and academic issues regarding macroeconomic models and international descriptive economics

Competences:

The student is able to handle complex and development-oriented situations regarding

- 1) the use of theoretical models to analyze the impact of macroeconomic factors from a corporate perspective
- 2) identifying own learning needs and developing own knowledge, skills, and competences in relation to macroeconomic reasoning and international descriptive economics

Business economics

Business economics and organization 2 (10 ECTS)

Content: Organizational development and implementation, accounting models in organizations, project organization

Learning objectives

Knowledge and understanding:

The student has development based knowledge and understanding about and can reflect on applied theories and methodologies regarding

- 1) decision making and change management in international organizations
- 2) the fundamental aspects of business economy including key performance indicators, cost/benefit analysis, break even, and supply/demand.
- 3) the financial control of organizations, including external accounting methods
- 4) project management in an international organizational context

Skills:

The student masters skills regarding the application of

- 1) theories and methods in order to assess an organization's economic performance and decision making
- 2) theories and methods of managing change in international organizations
- 3) external accounting methods
- 4) project management models and methods for managing an international project team
- 5) selecting and presenting relevant solution models regarding organizational development and implementation as well as external accounting methods to collaboration partners

Competences:

The student is able to handle complex and development-oriented situations regarding

- 1) presenting financial analysis based on financing and balance sheet structure and finance, respectively equity and capital in international organizations
- 2) analyzing, calculating and presenting accounting and key performance indicators
- 3) integrating a project organization in a larger organizational context
- 4) managing diversities and change in international project organizations
- 5) identifying own learning needs and developing own knowledge, skills, and competences in relation to business economics and external accounting

Information Technology Software construction 2 (5 ECTS)

Content: Construction of IT systems in a programming language, data structures and abstract data types, server side programming

Learning objectives

Knowledge and understanding

The student has development based knowledge and understanding about and can reflect on applied theories and methodologies regarding

- 1) the syntax and semantics of a programming language
- 2) development environments for IT systems
- 3) qualitative properties of selected algorithms
- 4) classic data structures
- 5) transaction handling and rollback in information systems
- 6) server side programming

Skills

The student masters skills regarding the application of

- 1) methods and theories in the development of client-server applications
- 2) methods for testing programs in order to plan and execute validation tests
- 3) methods and theory for manipulating data in and retrieving data from an information system
- 4) methods and theories about the realization of user interfaces in a development environment
- 5) selecting and presenting relevant solution models regarding software construction and server side programming to collaboration partners and users

Competences

The student is able to handle complex and development-oriented situations regarding

- 1) constructing and testing software programs involving algorithms, databases and user interfaces
- 2) programming a server side application
- 3) using a development environment for the realization of user interfaces
- 4) identifying own learning needs and developing own knowledge, skills, and competences in relation to software construction and server side programming

Information Technology Systems development 2 (5 ECTS)

Content: Data models, database analysis and design, development methods, project models, project management, user involvement, test

Learning objectives

Knowledge and understanding

The student has development based knowledge and understanding about and can reflect on applied theories and methodologies regarding

- 1) data and information, entity-relationships models, normalization and database integrity
- 2) datamodels, database analysis and design of logical and physical databases
- 3) IT project management including stakeholder analysis, risk analysis and quality management.
- 4) user involvement and tests in relation to IT project models

Skills

The student masters skills regarding the application of

- 1) theories and methods to transforming information about recorded data and business rules to a data model
- 2) normalization techniques to identify and eliminate redundant data
- 3) theory and methods of IT project management to plan complex development processes
- 4) theories and methods to create a test plan for a development cycle
- 5) selecting and presenting relevant solution models regarding database analysis and design to collaboration partners and users

Competences

The student is able to handle complex and development-oriented situations regarding

- 1) the construction of a logical and physical database design
- 2) the modeling of information flows and design of information systems
- 3) planning and coordinating the development of an information system with the integration of user research and test as a part of quality management
- 4) identifying own learning needs and developing own knowledge, skills, and competences in relation to database design and project management

Auxiliary subjects

International business law, 5 ECTS

Content: National and international business law, international IT-law

Learning objectives

Knowledge and understanding

The student has development based knowledge and understanding about and can reflect on applied theories and methodologies regarding

- 1) legal issues concerning the business environment
- 2) legal issues concerning IT-systems and –products
- 3) differences in the legal setup and practices in international markets

Skills

The student masters skills regarding the application of

- 1) relevant subjects of national and international business law to identify legal issues related to an organization
- 2) relevant IT-law related to IT-systems and –products, including copyright and transnational activities
- 3) theories and methods to analyze legal differences between international markets and the implications for the organization and its products or services.
- 4) the communication of practice-oriented and academic issues regarding relevant legal solution models to collaboration partners and users

Competences

The student is able to handle complex and development-oriented situations regarding

- 1) identifying and communicating potential legal issues concerning an organization and its products or services.
- 2) identifying and communicate potential legal issues concerning international IT-systems, products or services
- 3) identifying own learning needs and developing own knowledge, skills, and competences in relation to international business and IT law

3. semester

Business economics

Business strategy 1 (10 ECTS)

Content: Business strategy, IT-supported strategic management, supply chain management and logistics

Learning objectives

Knowledge and understanding:

The student has development based knowledge and understanding about and can reflect on applied theories and methodologies regarding

- 1) international strategic business and management
- 2) the alignment of business and IT strategy using IT as an enabler in the process of creating and implementing business strategies in an international organization
- 3) the impact of information, transportation and warehousing technologies on global supply chain and logistics operations, including transaction costs
- 4) key performance indicators deriving from a business strategy

Skills:

The student masters skills regarding the application of

- 1) theories and methods in order to analyse the international competition in an industry and an organization's strategic position
- 2) theories and methods to identify strategic resources and key performance indicators in an organization
- 3) theories and models to IT strategic planning as an integrated part of a the creation of business strategies
- 4) theory and methods to plan the successful implementation of a business strategy on the organizations global supply chain, including the identification of critical success factors
- 5) theory and methods to analyse the cost/benefit of implementing IT-driven processes in an international organization.
- 6) key theories, models and concepts to analyse management issues in a global supply chain and logistics operation
- 7) selecting and presenting relevant solution models regarding the alignment of IT and business strategy to collaboration partners and users

Competences:

The student is able to handle complex and development-oriented situations regarding

- 1) the creation or revision of a business strategy based on the strategic analysis of an organization
- 2) designing the implementation of IT-supported business strategies in an international organization
- 3) identifying strategic resources and key performance indicators for an organization
- 4) identifying and communicating global supply chain issues in an organization
- 5) identifying own learning needs and developing own knowledge, skills, and competences in relation to the alignment of business and IT strategies

Business economics**Strategic marketing (5 ECTS)**

Content: strategic marketing planning, intercultural relationship, and networking management

Learning objectives**Knowledge and understanding:**

The student has development based knowledge and understanding about and can reflect on applied theories and methodologies regarding

- 1) collecting and analyzing international data about markets, clients, and users
- 2) strategic marketing in international corporations
- 3) creating value through intercultural relationship management
- 4) marketing plans, including communication strategies

Skills:

The student masters skills regarding the application of

- 1) theories and methods to analyze markets and international competition
- 2) theories and methods to analyze relationships and intercultural communication
- 3) theories and methods to plan international strategic marketing
- 4) theories and models within international marketing economy in order to identify markets as well as select and present relevant solution models to collaboration partners and users

Competences:

The student is able to handle complex and development-oriented situations regarding

- 1) the independent participation in the development of a marketing strategy based on data collection and analysis of markets, competition, and consumers
- 2) the interdisciplinary collaboration in the development of plans to penetrate new international markets
- 3) developing and managing relationships and networks in an intercultural context
- 4) identifying own learning needs and developing own knowledge, skills, and competences in relation to strategic marketing

Information Technology Systems development 3 (10 ECTS)

Content: IT-supported business systems and processes, user experience, international usability, global project management, test and validation of IT-systems

Learning objectives

Knowledge and understanding

The student has development-based knowledge and understanding about and can reflect on applied theories and methodologies regarding

- 1) IT-supported business systems and processes
- 2) design processes, user interface design, and user experience
- 3) international usability testing
- 4) international project management
- 5) test and validation in software construction

Skills

The student masters skills regarding the application of

- 1) theories and methods about design processes and prototyping in the development of architecture, functionality, and user interfaces in IT-systems
- 2) theories and methods about international usability in the development and test of systems and interfaces in a multinational context

- 3) theory and methods to model information about business processes and business rules in the development of IT-supported business systems and -solutions
- 4) theory about usability and qualitative and quantitative methods in usability testing and user experience
- 5) theory and methods to manage international teams and projects
- 6) theory and methods to assure quality in IT systems through test and validation procedures
- 7) selecting and presenting relevant solution models regarding user experience, test, and validation to collaboration partners and users

Competences

The student is able to handle complex and development-oriented situations regarding

- 1) planning, testing and analyzing usability and user experience in interface design and functionality
- 2) the collaboration concerning the integration of a design process in the development of an IT system
- 3) developing, testing and evaluating user interfaces in a multinational context
- 4) creating a usability test plan and testing the functionality and user experience of IT-systems and -solutions
- 5) managing cross-border development projects and international teams
- 6) integrating test and validation procedures in the development of IT-systems and –solutions
- 7) identifying own learning needs and developing own knowledge, skills, and competences in relation user experience, test and project management

Information Technology Information technologies 1 (5 ECTS)

Content: Structure of computers and operating systems, network communication technologies, software applications, IT governance, and IT transparency

Learning objectives

Knowledge and understanding

The student has development based knowledge and understanding about and can reflect on applied theories and methodologies regarding

- 1) the structure of computers and computer components
- 2) operating systems and platforms

- 3) network communication technologies
- 4) different software applications types
- 5) IT-governance and IT transparency in an organization

Skills

The student masters skills regarding the application of

- 1) theory and methods to analyze properties and interrelationships between different information technologies
- 2) theory and methods to analyze an organization's IT service management processes and strategy
- 3) theories and methods to analyze the IT governance in an organization
- 4) selecting and presenting relevant solution models regarding IT-service management processes to collaboration partners and users

Competences

The student is able to handle complex and development-oriented situations regarding

- 1) the discipline-specific and interdisciplinary collaboration regarding the evaluation and test of information technology
- 2) independently participating in formulating an IT governance strategy and implementing it in the organization
- 3) understanding a layered communication model and addressing in networks
- 4) identifying own learning needs and developing own knowledge, skills, and competences in relation to IT governance and IT transparency

4. semester

Business economics

Business strategy 2 (10 ECTS)

Content: Business process optimization and standardization, integration of systems and business units, strategic information systems planning

Learning objectives

Knowledge and understanding:

The student has development based knowledge and understanding about and can reflect on applied theories and methodologies regarding

- 1) integration of systems and business units
- 2) business process optimization and standardization through process design based on research and IT modeling tools
- 3) human, cultural and organizational aspects of IT-driven business processes
- 4) strategic information systems planning and financial management of IT systems
- 5) international aspects of IT project portfolio management

Skills:

The student masters skills regarding the application of

- 1) theories and methods to analyze the integration of IT systems and business units
- 2) theories and methods to research, model, and document IT-driven business processes
- 3) theory and methods to create an IT strategy based on central processes in an organization
- 4) theory and methods to prioritize and plan the development of an organization's IT project portfolio
- 5) theory and methods to strategically analyse an organization's IT infrastructure
- 6) selecting and presenting relevant solution models regarding strategic information systems planning to collaboration partners and users

Competences:

The student is able to handle complex and development-oriented situations regarding

- 1) independently participating in creating or revising an IT strategy based on the strategic analysis of an organization's infrastructure and central processes

- 2) managing an IT project portfolio with a focus on optimization through internationalization of the organization
- 3) creating, modeling, and communicating concepts and documentation for IT-driven business processes to a complex target group
- 4) creating or revising plans for the integration of IT systems and business units
- 5) identifying own learning needs and developing own knowledge, skills, and competences in relation to business process optimization and standardization

Information Technology Systems development 4 (10 ECTS)

Content: System development methodologies, IT systems requirements, advanced project management, quality assurance, and risk management

Learning objectives

Knowledge and understanding

The student has development based knowledge and understanding about and can reflect on applied theories and methodologies regarding

- 1) methodologies and paradigms in IT system development
- 2) project management methods and the role of the project manager and team
- 3) IT systems requirement specifications
- 4) advanced project management, including risk and stakeholder analysis
- 5) quality assurance in project management
- 6) resource allocation, estimation and monitoring in development processes

Skills

The student masters skills regarding the application of

- 1) combining theories and methods about development paradigms with a project model and select the appropriate project strategy and tools
- 2) theories and methods to research and analyze a system development domain from a business, technological, and user perspective to determine requirements
- 3) theories and methods to analyze risk, stakeholders, scope, objectives, and critical success factors in project management of IT system development

- 4) theories and methods to design a process for a specific system development project
- 5) theories and methods to assure the quality of the process and product in a development cycle
- 6) theories and methods to estimate projects and allocate resources in development processes
- 7) selecting and presenting relevant solution models regarding project management to collaboration partners and users

Competences

The student is able to handle complex and development-oriented situations regarding

- 1) independently creating a complete and comprehensive project plan based on a methodological approach
- 2) managing a system development project on the basis of a project model and related tools and methodology
- 3) planning, estimating and allocating resources to system development projects
- 4) assuring the quality of both a development process and a product
- 5) establishing relationships and communicating with stakeholders
- 6) identifying own learning needs and developing own knowledge, skills, and competences in relation to project management of systems development

Information Technology Information technologies 2 (5 ECTS)

Content: Software application, cost of ownership, systems specifications, trends in information technology, security, systems architecture

Learning objectives

Knowledge and understanding

The student has development based knowledge and understanding about and can reflect on applied theories and methodologies regarding

- 1) creating concepts for software applications
- 2) cost of ownership
- 3) IT security
- 4) distribution of computer processing
- 5) system architecture

- 6) information technology trends

Skills

The student masters skills regarding the application of

- 1) theories and methods to analyze security aspects of an IT portfolio, processes, or practice
- 2) theories and methods to design a systems architecture integrating knowledge about information technology, business processes, and business objectives
- 3) theories about information technology trends to create concepts for software applications
- 4) methodologies to forecast short term and long term cost consequences of IT acquisitions, including environmental aspects
- 5) selecting and presenting relevant solution models regarding trends in information technology to collaboration partners and users

Competences

The student is able to handle complex and development-oriented situations regarding

- 1) design of a systems architecture
- 2) creating concepts for software applications or IT systems based on technological trends
- 3) estimating and communicating the consequences of software, hardware, and IT systems acquisitions, including a cost/benefit analysis
- 4) analyzing and communicating the security aspects of the IT portfolio, processes or practices
- 5) identifying own learning needs and developing own knowledge, skills, and competences in relation to systems architecture and trends in information technology

Auxiliary subjects

Entrepreneurship and innovation (5 ECTS)

Content: Innovative and create processes, concept development, idea management, creating a business plan, and financing

Learning objectives

Knowledge and understanding

The student has development based knowledge and understanding about and can reflect on applied theories and methodologies regarding

- 1) concept development and innovative and creative processes
- 2) idea management in innovative organizations
- 3) entrepreneurship and the potential value of entrepreneurial processes
- 4) creating a business plan, including a plan for financing

Skills

The student masters skills regarding the application of

- 1) theories and methods to develop concepts for new products, services, or processes in an existing organization.
- 2) theories and methods to identify potential risks or gains of an entrepreneurial process
- 3) selecting and presenting relevant solution models regarding innovation and entrepreneurship to collaboration partners and users

Competences

The student is able to handle complex and development-oriented situations regarding

- 1) independently participating in planning and managing the development of concepts for new products, services, or business processes
- 2) participating in interdisciplinary collaboration situations concerning planning and facilitating innovative processes in a knowledge-intensive organization
- 3) creating a business plan, including a plan for financing, based on the analysis of the risks, constraints and potential value of an entrepreneurial process
- 4) identifying own learning needs and developing own knowledge, skills, and competences in relation to entrepreneurship and innovation

5. semester

Optional modules (30 ECTS)

The 5th semester is the specialization semester. At each institution, the student will have alternative programme element choices within the following subject areas:

- Economic subjects
- IT subjects
- Integration subjects

The student will also be able to take relevant courses at other domestic or international institutions for a part of or the entire length of the semester.

Content, learning goals, and ECTS points will be published online by the individual institutions. The optional elements will include a compulsory exercise, which must be approved. See also the institution's individual exam regulations.

6. semester

Internship (30 ECTS)

The internship takes place in the 6th Semester. During the internship the student is affiliated with one or more private or public organizations.

The aim of the internship is to provide the student with a practical understanding of how the different theories and concepts developed in the Business Economics and Information Technology programme can be applied to specific organizational environments.

The internship allows the student to continue the specialization and reflection process from the previous semester. It is also an opportunity to find a problem area for the bachelor project.

Content:

Application of theories, concepts and models from the previous courses in the programme to a specific problem related to the internship company or organization.

The student should get insight in:

- the company structure and organization
- work functions
- internal and external collaborators

The internship can form the basis for the student's final project and can be planned to allow both flexibility and differentiation.

The internship is unpaid.

The student – in collaboration with the organization and the Institution– sets the learning objectives for the internship based on the objectives listed below.

The learning objectives of the internship are:

- 1) to develop a set of personal objectives and goals for the work experience
- 2) to gain insight into what organizations expect and require of the student's knowledge, skills and attitudes toward work
- 3) to experience everyday life and job assignments over a substantial period of time in the profession
- 4) to work with issues related to Business Economics and/or Information Technology in line with own learning objectives
- 5) evaluate the strengths and weaknesses of the company and its resources
- 6) assume the role of an internal employee, external consultant, or entrepreneur
- 7) create a network of contacts in the company or business area

- 8) present recommendations to the organization, based on extensive internal and/or external research
- 9) for the student to try out in practice – and reflect upon – the knowledge and skills gained through the Business Economics and Information Technology Programme

During the internship, the student has a supervisor from the programme and a contact/supervisor from the organization.

How well the individual learning objectives are fulfilled is evaluated after the internship. See also the institution's individual exam regulations.

7. semester

Auxiliary subjects

Philosophy of science and project methodology (10 ECTS)

Content: History of philosophy, scientific method and project methodology, professional ethics, and the influence on culture on scientific traditions

Learning objectives

Knowledge and understanding

The student has development based knowledge and understanding about and can reflect on applied theories and methodologies regarding

- 1) the history of philosophy within the major scientific traditions
- 2) scientific tradition and method in social science
- 3) the philosophy of ethics in a culture and business context
- 4) philosophical and scientific traditions in a cultural perspective
- 5) project methodology

Skills

The student masters skills regarding the application of

- 1) theories of philosophy of science to structure a project
- 2) theories and methods from social science to plan a systematic research process
- 3) philosophy of professional ethics in an international business context
- 4) the communication of practice-oriented and academic issues regarding philosophy of science to collaboration partners and users

Competences

The student is able to handle complex and development-oriented situations regarding

- 1) applying philosophy of science to projects
- 2) selecting and discussing relevant scientific theories and methods in project work
- 3) analyzing, structuring, and presenting a scientific problem in a relevant scientific tradition
- 4) identifying own learning needs and developing own knowledge, skills, and competences in relation to philosophy of science

Bachelor project (20 ECTS)

Content: The aim is to show that the student has the qualifications to combine theoretical, practical, and developmental issues independently. The student should be able to choose relevant solution models and to communicate these. Furthermore, the student should demonstrate the skills to combine business, economics, and IT related knowledge and understanding and the ability to work on a specific problem from a scientific perspective on the basis of a practice-related issue.

The bachelor thesis should be a comprehensive, independent report, and may also include a fully or partially developed IT-related product.

The problem of the bachelor thesis should be stated by the student and wherever possible in cooperation with an enterprise. The problem statement of the bachelor thesis must be approved by the academy.

The student should apply core theories and methods from the entire programme when solving the stated problem. Besides, the bachelor thesis should involve empirical data to solve the problem in question.

Learning objectives and requirements

- The student must be able to explain, argue for and discuss the use of theory and models of description and analysis of a problem that concerns a concrete enterprise or organisation and provide proposals for solutions.
- The student should demonstrate understanding of the problem field and the ability to view this field from different angles.
- In the research question and delimitation, the student should be able to outline the premises for the interpretation and understanding of the problem.
- The student should be able to explain, argue for and discuss methodical considerations
- The student should be able to explain and argue for the use of concepts, models, theory and empirical data
- The conclusions of the report must provide solutions/answers to the research question
- The student should demonstrate Independence in preparing the project, including literature search
- The work should be presented in a structured report as well as an oral presentation.
- At the oral exam, the student must be able to explain and discuss the project in terms of the areas listed above.

Special conditions

In order to be enrolled for the bachelor examination the student must have passed the 6th semester internship test and the 7th semester Philosophy of Science test.

The written part of the bachelor thesis can be prepared individually or in groups of two students. The problem statement of each student and his/her plan for the bachelor thesis must be approved by the institution.

External Exam

An oral test based on the project which may be produced individually or in groups of up to 2 students. The exam in the Bachelor project consists of a project and an oral exam which is held at the end of the 7th semester.

Handing in

The report must not exceed 30 standard pages* plus a maximum of 15 standard pages per group member, excluding appendices.

Examination

1. Group presentation of product and report: 15 minutes.
2. Individual or group examination based on product and report: 25 minutes pr. student.
3. Discussion of performance and announcement of mark: 10 minutes.

Evaluation

An individual mark is given based on an overall evaluation of report, presentation and individual examination, including an assessment of the student's written language skills.

Re-sit examination

The re-sit examination is held immediately before or at the beginning of the following semester. Grounds for re-sit examination – of a group project or an individual project – depend on a professional assessment of the reason why a re-examination is necessary.

Re-examination of a Group Project. The test is conducted in the same way as the ordinary exam. The new project can either be based on the same problem as the project that formed the basis for the ordinary exam, or on a new problem.

Re-examination of an Individual Project. The project can either be based on the same problem as the project that formed the basis of the ordinary test, or on a new problem.

The exam serves the same purpose as the ordinary exam, but as the project is carried out individually, teamwork is not included. Instead, the institution attaches importance to the requirements that the student can work methodically and plan his/her work independently based on the leading principles of the project description.

Re-sit examination on ground of sickness or other acceptable reasons

The re-sit examination on ground of sickness or other acceptable reasons should be held immediately before or at the beginning of the following semester.

If the institution assesses that the student has participated to an acceptable degree in the project, this exam will be held as an individual test based on the group project.

If the institution assesses that the student has not participated to an acceptable degree in the project, an examination will be held as an individual project examination.

* A standard page contains 2400 keystrokes including spaces

Exam Regulations

The aim of the exam regulations is to ensure the quality of the programme, and that the subjects passed by the student are equivalent to corresponding subjects in other institutions that offer this programme.

To secure coherence in the teaching, and between the examination and the teaching, each institution lays down specific demands for examination projects etc. For each exam, the requirements will be specified by the individual institution.

Overview of exams

Semester	Exam	Internal/external exam	Exam determined by	Marking
1 st sem.	Microeconomics, Business economics and Communication (group)	Internal	All institutions providing the programme	7-point grading scale
	Software construction and systems development (individual)	Internal	All institutions providing the programme	7-point grading scale
2 nd sem.	First year test (group)	External	All institutions providing the programme	7-point grading scale
	International Business Law (individual)	External	All institutions providing the programme	7-point grading scale
3 rd sem.	Project exam (group)	External	All institutions providing the programme	7-point grading scale
4 th sem.	Project exam (group)	External	All institutions providing the programme	7-point grading scale
5 th sem.	Optional module exams (group/individual)	External/Internal	Copenhagen Technical Academy	7-point grading scale
6 th sem.	Internship exam (group/individual)	Internal	Copenhagen Technical Academy	Passed/not passed
7 th sem.	Philosophy of science exam (individual)	External	All institutions providing the programme	7-point grading scale

	Bachelor project exam (group)	External	All institutions providing the programme	7-point grading scale
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In order to pass the complete programme, the students must pass both the internship test and obtain a pass mark of 2 in the bachelor thesis exam.

All grades are individual. If there is a group based effort for the exam, the students' contribution to the group process can be part of the marking process.

Exam Attempts

Students can have at least three attempts to pass the same exam. The college can allow a fourth attempt should sufficient reasons and grounds be presented.

Assessment and external examiners

Exams can be individual exams or group exams. On the written group project, the individual students should clearly identify themselves. During the oral exam, where the students are being examined individually on a product produced by a group, the other members of the group cannot be present while an individual student is being examined. The goal of the exam is to assess the degree to which the student has achieved a suitable level of knowledge in accordance with the goals and requirements specified in the curriculum.

Exam language

The exam shall be held in the primary language of instruction.

Special exam conditions

The college can depart from the normal conditions for an individual exam should there be any special circumstances that affect the student such as physical or mental disabilities, for students whose mother tongue is other than Danish and for students with other conditions that could affect their performance in the exam situation.

Deadlines and time limits in connection with exams

The institution's rules and regulations regarding registering and deferring from exams, such as for reasons of illness, can be found in the institution's curriculum

Complaints about assessment

Complaints about the assessment, exam process etc should be submitted to the institution at the latest two weeks after the exam grade has been published to the students. Guidance can be found at www.kvu-censor.dk.

Exam Results

A document with exam evidence and Diploma Supplement is issued at the end of the education, when all exams have been successfully passed. The student who has not successfully completed the programme, has a right to receive written confirmation of sections passed. This documentation supplies information on the exam type and final grade.

Description of exams in the programme:

1st semester – Microeconomics, Business Economics and Organisation, and Communication and Presentation exam – internal exam (20 ECTS) (common for all providers of the programme)

Conceptual communication and presentation of a problem related to Microeconomics and Business Economics and Organisation

The exam must show that the student

- can communicate with one or more target groups
- can analyse and present a problem related to Microeconomics and Business Economics
- can complete a project^{1*} in a team.

Internal Test

An oral group test based on the project made by a group of 2-4 students is held at the end of the 1st semester.

Project, Presentation and Report

The project must be interdisciplinary and problem oriented.

The institution lays down the actual requirements for the project, which will combine essential fields of the 1st semester teaching of Microeconomics, Business Economics and Organisation, and Communication and Presentation. The institution can make further demands for group size, project scope and process documentation, including the student's written language skills. The institution must secure that the project description is given to the students and the examiners.

Handing in Report

The report must not exceed 10 standard pages^{**} plus a maximum of 5 standard pages per group member, excluding appendices. Appendices should be kept to a minimum.

Examination

The student will be examined in several subjects (Microeconomics, Business Economics and Organisation, and Communication and Presentation). The examination must secure that the examination covers subjects that are not already dealt with in the report.

1. Group presentation based on report: 15 minutes.
2. Individual examination: 15 minutes.

* A project description is formulated by the institution arranging the examination and must as a minimum contain: the size of the project expressed in ECTS points, the type of guidance, including support and tutoring the students receive during the project working process together with the rules for handing it out and handing it in, such as dates, size and other quality requirements.

** A standard page contains 2400 keystrokes including spaces.

3. Discussion of performance and announcement of grade: 5 minutes.

Evaluation

The student will receive an individual grade for the overall performance covering report, presentation and individual examination. The evaluation of the performance is based on the degree to which it complies with the purpose and learning objectives of the subjects, as described in the curriculum.

Re-sit examination

The re-sit examination is held immediately before or at the beginning of the following semester. Grounds for re-sit examination – of a group project or an individual project – depend on a professional assessment of the reason why a re-examination is necessary.

Re-examination of a Group Project. The test is conducted in the same way as the ordinary exam. The new project can either be based on the same problem as the project that formed the basis for the ordinary exam, or on a new problem.

Re-examination of an Individual Project. The project can either be based on the same problem as the project that formed the basis of the ordinary test, or on a new problem.

The exam serves the same purpose as the ordinary exam, but as the project is carried out individually, teamwork is not included. Instead, the institution attaches importance to the requirements that the student can work methodically and plan his/her work independently based on the leading principles of the project description.

Re-sit examination on ground of sickness or other acceptable reasons

The re-sit examination on ground of sickness or other acceptable reasons should be held immediately before or at the beginning of the following semester.

If the institution assesses that the student has participated to an acceptable degree in the project, this exam will be held as an individual test based on the group project.

If the institution assesses that the student has not participated to an acceptable degree in the project, an examination will be held as an individual project examination.

1st semester – Software construction and systems development – internal exam (10 ECTS)

(common for all providers of the programme)

Documentation of software construction and development.

The exam must show that the student

- can plan the construction and development of software
- can analyse and present a problem related to software construction and systems development
- can document the development process

Internal Test

An oral individual test based on the project is held at the end of the 1st semester.

Project, Presentation and Report

The project must be interdisciplinary and problem oriented.

The institution lays down the actual requirements for the project, which will combine essential fields of the 1st semester teaching of Software Construction and Systems Development. The institution can make

further demands for project scope and process documentation, including requirements for the demonstration of working code and/or the student's written language skills. The institution must secure that the project description is given to the students and the examiners.

Handing in Report

The report must not exceed 10 standard pages **, excluding appendices. Appendices should be kept to a minimum.

Examination

The student will be examined in several subjects (Software Construction and Systems Development). The examination must secure that the examination covers subjects that are not already dealt with in the report.

1. Individual examination, including a short presentation based on report: 15 minutes.
2. Discussion of performance and announcement of grade: 5 minutes.

Evaluation

The student will receive an individual grade for the overall performance covering report, presentation and individual examination. The evaluation of the performance is based on the degree to which it complies with the purpose and learning objectives of the subjects, as described in the curriculum.

Re-sit examination

The re-sit examination is held immediately before or at the beginning of the following semester. Grounds for re-sit examination depend on a professional assessment of the reason why a re-examination is necessary. The new project can either be based on the same problem as the project that formed the basis for the ordinary exam, or on a new problem.

Re-sit examination on ground of sickness or other acceptable reasons

The re-sit examination on ground of sickness or other acceptable reasons should be held immediately before or at the beginning of the following semester.

2nd semester – First year exam (25 ECTS) (common for all providers of the programme)

The alignment of IT and business

The exam must show that the student

- can communicate core concepts from Macroeconomics, Business economics and Organisation, Software construction, and Systems development.
- can analyse and present a problem related to Macroeconomics, Business Economics and Organisation, Software Construction, and Systems Development from an interdisciplinary perspective.
- can complete a project^{2*} in a team.

** A standard page contains 2400 keystrokes including spaces.

* A project description is formulated by the institution arranging the examination and must as a minimum contain: the size of the project expressed in ECTS points, the type of guidance, including support and tutoring the students receive during the project working process together with the rules for handing it out and handing it in, such as dates, size and other quality requirements.

External Test

An oral test based on the project made by a group of 2-4 students is held at the end of the 2nd semester.

Project, Presentation and Report

The project must be interdisciplinary and problem oriented.

The institution lays down the actual requirements for the project, which will combine essential fields of the 2nd semester teaching of Macroeconomics, Business Economics and Organisation, Software Construction, and Systems Development. The institution can make further demands for group size, project scope and process documentation, including requirements for the demonstration of working code. The institution must secure that the project description is given to the students and the examiners.

Handing in Report

The report must not exceed 15 standard pages ** plus a maximum of 5 standard pages per group member, excluding appendices. Appendices should be kept to a minimum.

Examination

The student will be examined in several subjects (Macroeconomics, Business Economics and Organisation, Software Construction, and Systems Development). The examination must secure that the examination covers subjects that are not already dealt with in the report.

1. Individual presentation based on report: 5 minutes.
2. Individual examination: 20 minutes.
3. Discussion of performance and announcement of grade: 5 minutes.

Evaluation

The student will receive an individual grade for the overall performance covering report, presentation and individual examination. The evaluation of the performance is based on the degree to which it complies with the purpose and learning objectives of the subjects, as described in the curriculum.

Re-sit examination

The re-sit examination is held immediately before or at the beginning of the following semester. Grounds for re-sit examination – of a group project or an individual project – depend on a professional assessment of the reason why a re-examination is necessary.

Re-examination of a Group Project. The test is conducted in the same way as the ordinary exam. The new project can either be based on the same problem as the project that formed the basis for the ordinary exam, or on a new problem.

Re-examination of an Individual Project. The project can either be based on the same problem as the project that formed the basis of the ordinary test, or on a new problem.

The exam serves the same purpose as the ordinary exam, but as the project is carried out individually, teamwork is not included. Instead, the institution attaches importance to the requirements that the student can work methodically and plan his/her work independently based on the leading principles of the project description.

Re-sit examination on ground of sickness or other acceptable reasons

** A standard page contains 2400 keystrokes including spaces.

The re-sit examination on ground of sickness or other acceptable reasons should be held immediately before or at the beginning of the following semester.

If the institution assesses that the student has participated to an acceptable degree in the project, this exam will be held as an individual test based on the group project.

If the institution assesses that the student has not participated to an acceptable degree in the project, an examination will be held as an individual project examination.

2nd semester – International Business Law (5 ECTS) **(common for all providers of the programme)**

Business and IT law

The exam must show that the student

- demonstrates knowledge of central concepts of IT- and business law
- can analyse and present a problem related to IT- and business law

External Test

An oral individual test based on the synopsis is held at the end of the 2nd semester.

Synopsis and Presentation

The institution lays down the actual requirements for the test, which will combine essential fields of the teaching of International Business Law. The institution can make further demands for project scope, including the student's written language skills. The institution must secure that the exam description is given to the students and the examiners.

Handing in Synopsis

The synopsis must not exceed 5 standard pages **, excluding appendices. Appendices should be kept to a minimum.

Examination

The student will be examined in International Business Law. The examination must secure that the examination covers subjects that are not already dealt with in the synopsis.

1. Individual examination, including a short presentation based on synopsis: 15 minutes.
2. Discussion of performance and announcement of grade: 5 minutes.

Evaluation

The student will receive an individual grade for the overall performance covering synopsis, presentation and individual examination. The evaluation of the performance is based on the degree to which it complies with the purpose and learning objectives of the subjects, as described in the curriculum.

Re-sit examination

The re-sit examination is held immediately before or at the beginning of the following semester. Grounds for re-sit examination depend on a professional assessment of the reason why a re-examination is

** A standard page contains 2400 keystrokes including spaces.

necessary. The new synopsis can either be based on the same problem as the synopsis that formed the basis for the ordinary exam, or on a new problem.

Re-sit examination on ground of sickness or other acceptable reasons

The re-sit examination on ground of sickness or other acceptable reasons should be held immediately before or at the beginning of the following semester.

3rd semester – Strategy and relations (30 ECTS) (common for all providers of the programme)

Strategy and relations in IT and business

The exam must show that the student

- can communicate core concepts from Business Strategy, Strategic Marketing, Information Technologies, and Systems development.
- can analyse and present a problem related to Business Strategy, Strategic Marketing, Information Technologies, and Systems development from an interdisciplinary perspective.
- can collect and analyse user and marketing research
- can complete a project^{3*} in a team with emphasis on relations.

External Test

An oral test based on the project made by a group of 2-4 students is held at the end of the 3rd semester.

Project, Presentation and Report

The project must be interdisciplinary and problem oriented.

The institution lays down the actual requirements for the project, which will combine essential fields of the 3rd semester teaching of Business Strategy, Strategic Marketing, Information Technologies, and Systems development. The institution can make further demands for group size, project scope and process documentation, including requirements for the demonstration of working code and/or the student's written language skills. The institution must secure that the project description is given to the students and the examiners.

Handing in Report

The report must not exceed 15 standard pages^{**} plus a maximum of 8 standard pages per group member, excluding appendices. Appendices should be kept to a minimum.

Examination

The student will be examined in several subjects (Business Strategy, Strategic Marketing, Information Technologies, and Systems development). The examination must secure that the examination covers subjects that are not already dealt with in the report.

1. Individual presentation based on report: 5 minutes.

* A project description is formulated by the institution arranging the examination and must as a minimum contain: the size of the project expressed in ECTS points, the type of guidance, including support and tutoring the students receive during the project working process together with the rules for handing it out and handing it in, such as dates, size and other quality requirements.

** A standard page contains 2400 keystrokes including spaces.

2. Individual examination: 20 minutes.
3. Discussion of performance and announcement of grade: 5 minutes.

Evaluation

The student will receive an individual grade for the overall performance covering report, presentation and individual examination. The evaluation of the performance is based on the degree to which it complies with the purpose and learning objectives of the subjects, as described in the curriculum.

Re-sit examination

The re-sit examination is held immediately before or at the beginning of the following semester. Grounds for re-sit examination – of a group project or an individual project – depend on a professional assessment of the reason why a re-examination is necessary.

Re-examination of a Group Project. The test is conducted in the same way as the ordinary exam. The new project can either be based on the same problem as the project that formed the basis for the ordinary exam, or on a new problem.

Re-examination of an Individual Project. The project can either be based on the same problem as the project that formed the basis of the ordinary test, or on a new problem.

The exam serves the same purpose as the ordinary exam, but as the project is carried out individually, teamwork is not included. Instead, the institution attaches importance to the requirements that the student can work methodically and plan his/her work independently based on the leading principles of the project description.

Re-sit examination on ground of sickness or other acceptable reasons

The re-sit examination on ground of sickness or other acceptable reasons should be held immediately before or at the beginning of the following semester.

If the institution assesses that the student has participated to an acceptable degree in the project, this exam will be held as an individual test based on the group project.

If the institution assesses that the student has not participated to an acceptable degree in the project, an examination will be held as an individual project examination.

4th semester – Business Processes and project management (30 ECTS) (common for all providers of the programme)

Business Processes and project management in IT and business

The exam must show that the student

- can communicate core concepts from Business Strategy, Information Technologies, Systems Development, and Innovation and Entrepreneurship.
- can analyse and present a problem related to Business Strategy, Information Technologies, Systems Development, and Innovation and Entrepreneurship from an interdisciplinary perspective.
- can manage an innovative and/or entrepreneurial process
- can complete a project^{4*} in a team with emphasis on project management methods and tools.

* A project description is formulated by the institution arranging the examination and must as a minimum contain: the size of the project expressed in ECTS points, the type of guidance, including support and tutoring the students receive during the project working process together with the rules for handing it out and handing it in, such as dates, size and other quality requirements.

External Test

An oral test based on the project made by a group of 2-4 students is held at the end of the 4th semester.

Project, Presentation and Report

The project must be interdisciplinary and problem oriented.

The institution lays down the actual requirements for the project, which will combine essential fields of the 4th semester teaching of Business Strategy, Information Technologies, Systems Development, and Innovation and Entrepreneurship. The institution can make further demands for group size, project scope and process documentation, including requirements for the demonstration of working code and/or the student's written language skills. The institution must secure that the project description is given to the students and the examiners.

Handing in Report

The report must not exceed 15 standard pages^{**} plus a maximum of 8 standard pages per group member, excluding appendices. Appendices should be kept to a minimum.

Examination

The student will be examined in several subjects (Business Strategy, Information Technologies, Systems Development, and Innovation and Entrepreneurship). The examination must secure that the examination covers subjects that are not already dealt with in the report.

1. Individual presentation based on report: 5 minutes.
2. Individual examination: 20 minutes.
3. Discussion of performance and announcement of grade: 5 minutes.

Evaluation

The student will receive an individual grade for the overall performance covering report, presentation and individual examination. The evaluation of the performance is based on the degree to which it complies with the purpose and learning objectives of the subjects, as described in the curriculum.

Re-sit examination

The re-sit examination is held immediately before or at the beginning of the following semester. Grounds for re-sit examination – of a group project or an individual project – depend on a professional assessment of the reason why a re-examination is necessary.

Re-examination of a Group Project. The test is conducted in the same way as the ordinary exam. The new project can either be based on the same problem as the project that formed the basis for the ordinary exam, or on a new problem.

Re-examination of an Individual Project. The project can either be based on the same problem as the project that formed the basis of the ordinary test, or on a new problem.

The exam serves the same purpose as the ordinary exam, but as the project is carried out individually, teamwork is not included. Instead, the institution attaches importance to the requirements that the student can work methodically and plan his/her work independently based on the leading principles of the project description.

Re-sit examination on ground of sickness or other acceptable reasons

^{**} A standard page contains 2400 keystrokes including spaces.

The re-sit examination on ground of sickness or other acceptable reasons should be held immediately before or at the beginning of the following semester.

If the institution assesses that the student has participated to an acceptable degree in the project, this exam will be held as an individual test based on the group project.

If the institution assesses that the student has not participated to an acceptable degree in the project, an examination will be held as an individual project examination.

5th semester – specialization and internationalization

The exams are described in the institution's curriculum in the local exam regulations

6th Semester – Internship exam (common for all providers of the programme)

The exam is internal and aims at assessing the student's individual learning objectives set by the student and the involved organization and institution prior to entering the internship.

Evaluation

The test is marked either "passed" or "not passed."

Re-examination

As with the other examinations, the student has the right to take two re-exams.

Re-examination is based on a professional assessment:

- If assessment of "not passed" is due to insufficient participation in the internship, the student must take another internship.
- If assessment of "not passed" is due to insufficient reflection in relation to the learning objectives, a new test will be administered after approximately 2 weeks.

7th semester – Philosophy of Science and Project Methodology (10 ECTS) (common for all providers of the programme)

Philosophy of science, ethics, and scientific method

The exam must show that the student

- demonstrates knowledge of central concepts of philosophy of science and professional ethics
- can analyse and present a problem using philosophy of science and scientific method

External Test

An oral individual test based on the synopsis is held after the course is completed.

Synopsis and Presentation

The institution lays down the actual requirements for the test, which will combine essential fields of the teaching of Philosophy of Science and Project Methodology. The institution can make further demands for project scope, including the student's written language skills. The institution must secure that the exam description is given to the students and the examiners.

Handing in Synopsis

The synopsis must not exceed 5 standard pages **, excluding appendices. Appendices should be kept to a minimum.

Examination

The student will be examined in Philosophy of Science and Project Methodology. The examination must secure that the examination covers subjects that are not already dealt with in the synopsis.

1. Individual examination, including a short presentation based on synopsis: 15 minutes.
2. Discussion of performance and announcement of grade: 5 minutes.

Evaluation

The student will receive an individual grade for the overall performance covering synopsis, presentation and individual examination. The evaluation of the performance is based on the degree to which it complies with the purpose and learning objectives of the subjects, as described in the curriculum.

Re-sit examination

The re-sit examination is held approximately two weeks after the ordinary exam. Grounds for re-sit examination depend on a professional assessment of the reason why a re-examination is necessary. The new synopsis can either be based on the same problem as the synopsis that formed the basis for the ordinary exam, or on a new problem.

Re-sit examination on ground of sickness or other acceptable reasons

The re-sit examination on ground of sickness or other acceptable reasons should be held immediately before or at the beginning of the following semester.

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If the academy assesses that the student has participated to an acceptable degree in the project, this exam will be held as an individual test based on the group project.

If the academy assesses that the student has not participated to an acceptable degree in the project, an examination will be held as an individual project examination.

Credit transfer

There are no general regulations about credit transfer.

A student who wishes to transfer credits from studies at other Danish or international institutions should apply directly to the institution which provides Business Economics and Information Technology. The institution's local curriculum provides information about credit transfer agreements which applies to the specific institution.

** A standard page contains 2400 keystrokes including spaces.

Local Curriculum

Methods of Teaching and Studying

The teaching is conducted as a combination of classroom teaching, lectures, workshops, study groups, exercises and major projects. The organisation of the teaching is based on relevant business practice and applied theory.

The programme also comprises teaching methods that will enable the student to develop his/her independence and interpersonal skills as well as an aptitude for being innovative. To the extent it is relevant, that teaching in entrepreneurship, innovation and the interaction between different cultures is part of the programme.

Compulsory activity

The student is required to take an active part in study activities, compulsory projects and assignments, tests and exams in accordance to the preconditions found in the Acts and Orders and this curriculum.

International teaching

Teaching takes place in an international environment where many different nationalities are represented. All subjects will be taught in English and all exams, tests and assignments must be done in English.

Practice-related learning

The teaching is cross-disciplinary and practice-oriented. It primarily takes place in an open learning environment which substitutes normal classroom teaching. The teaching environment is designed to be flexible so that teachers and students can meet formally and informally in connection with interdisciplinary problem solving in projects and exercises for organizations and businesses.

Subject progression

The programme is constructed around four core areas, each of which is further subdivided into subjects, each with its own set of learning goals. The core areas, the subjects and the learning goals are divided between four obligatory semesters, where it is ensured that there is a steady and logical progression and complexity within the area. The fifth semester offers specialization and internationalization opportunities to the student. The internship in the sixth semester ensures that the student gains knowledge of the profession in practice and learns how to solve practical problems. The seventh semester puts the specialization and the internship into perspective by treating a practical problem through the application of academic theories and methods.

Project work

The university puts emphasis on project work and organization contact. With the project method of study, the students gain an important experience of group work. Through a problem oriented study environment, they gain experience of problem formulation and problem solving. Therefore, the process and methods are an important part of the learning environment, and are also part of the basic development in the tests and exams.

Group work and the consequences of the division of a group

A group is established when the members have informed the teacher/coach that is in charge of the process of establishing the groups. The group formation process is not finished before all in the class/semester is in

a group. When the groups are formed, and one is formally a member of a group, all material that is produced by the group belongs to the members of that group.

The group size is described in the exam project description. The responsible for the subject may grant a dispensation from the group size on the basis of a written application which should be sent before the exam project period.

In case of a group splitting up

If a group decides to split up in the middle of a period, the material that they have been working on before that point belongs to all and should be made accessible to all members. A group is not formally split up until the group's coach has been informed.

In the case of exclusion

In the case of the exclusion of a group member from a group, the excluded group member can have access to the material that they have worked on themselves. A member cannot be excluded until the group's coach has been informed.

Motivation

An important condition for successful completion of the period of study is that each student shall actively participate in teaching, project work and coaching meetings. It is expected that the students will take responsibility for their own learning, which requires motivation and engagement, independence, showing initiative as well as developing a critical outlook. It is important that they take responsibility for the production of their own work, not least during the project periods.

Exam regulations

Fixed prerequisites

For students to continue the programme, all first year exams must have been passed by the end of the fourth semester after the start of the programme. The subjects are passed if the grades awarded in the exams are 02 or more. In assessing exams, students are rated according to the Danish grade scale (the "7-points scale"), unless it appears from the relevant exam provisions that the grading "Passed/Not Passed" is used.

The Study Board may grant exemptions in extraordinary circumstances such as childbirth etc.

5th semester – Optional modules, internal or external exam

Each optional module will be evaluated internally or externally through a test. The test could be oral, project oriented or written, depending on the content and working practice of the optional modules offered. The test will either be individual or group based.

The university will publish a description of each optional module, its learning goals and the ECTS covered, no later than by the start of 5th semester. It will include a description of the type of exam and evaluation, requirements for deliveries, the exam itself, assessment and conditions for reattempts.

The exams are held after the optional modules or at the end of the 5th semester.

The university will lay down the requirements for the exams, based upon the areas of the optional module teaching. The institution will ensure that the project description will be sent to the students, the examiner and the censor.

Exam registration

The Examination Office will inform about rules and deadlines for exam registration, make-up exams and re-examinations.

The maximum number of times that students are allowed to register for the same exam or any other form of assessment is three times. In extraordinary circumstances the Study Board may allow a student to register for further attempts.

Exams taken abroad

If a student wishes to take a test abroad, this can be granted on the basis of a written application to the Study Board before the start of the exam project period. The Study Board will lay down the requirements to the execution of the exam in the letter of approval. All additional expenses related to the exam arrangements abroad, must be covered by the student.

Exam period and timing

Approximately one month before the exam period, the student administration office will set a timetable for the exams.

Ordinary exam: January. Re-exam: February.

Ordinary exam: June. Re-exam: August.

Exam aids

The types of exam aids that students are allowed to bring for the individual exams appear from the exam regulations of the individual course.

Special exam conditions

The Study Board may dispense with the existing exam provisions for the individual exam with a view to allowing special exam conditions for students who are physically or mentally disabled if such special conditions are deemed necessary in order to ensure that such disabled students sit for exams on equal terms with the other students and provided that such special conditions do not contribute to a lowering of the academic level.

Students seeking permission to take an exam on special conditions must submit an application to the Study Board not later than one month prior to the exam, enclosing the necessary information.

Annulment of exams

An exam may be annulled if, after conducting the exam, Head of Department of Leadership and Strategy and/or the examiners find the exam to have been seriously flawed. In such cases, all students who have participated in the exam in question will be offered to take the exam again. In the event of a lower grade resulting from such reassessment or re-examination, the original grade will remain in force.

If an exam is found to be seriously inadequate, the Study Board may decide to annul an already held exam and arrange a re-examination for all students who have participated in the exam in question. The re-examination may result in a lower grade than the one originally achieved.

Violation of exam provisions

A student, who unlawfully enlists the assistance of or renders assistance to another examinee for the purpose of answering an assignment or makes use of unauthorised aids, will be expelled from the exam.

If during or after an exam suspicion arises that a student has enlisted the assistance of or provided assistance to another student, has passed someone else's work off as his/her own or has used previously assessed work without reference, such actions will be reported to the Head of the University of Southern Denmark. If the suspicion is confirmed, the student will be expelled from the exam.

If a student's conduct during an exam is disruptive, the student may be expelled from the exam in question.

In cases mention above, the Head of the University of Southern Denmark may decide to relegate the student from the institution for a period of some duration.

Make-up exams and re-examination

Students who are able to provide documentation that due to illness etc. they have not been able to complete an exam, are entitled to participate in a make-up exam/re-examination. Illness includes accidents as well as serious illness and death in the immediate family. In the case of other extraordinary matters preventing a student from participating in an exam, the matter may be submitted to the Study Board, who may decide to allow the student to participate in a make-up exam. Documentation for illness etc. (doctor's certificate) must be submitted to the Examination Office not later than three days after the exam date in question.

Participation in **make-up** exams is only open to students who have registered for the **ordinary** exams, and submitted documentation for illness etc. Consequently, there will be no extra make-up exams for students who have been prevented from participating in a make-up exam/re-examination due to illness etc. However, this rule does not apply where the make-up exam is placed in the student's final exam period. In such cases, the student will be permitted to participate in another make-up exam.

The make-up exam will be held as soon as possible after the ordinary exam, i.e. normally prior to the start of the next semester.

Access to participation in **re-exams** is only open to students who have registered for the **ordinary** exam. However, this rule does not apply where the re-exam is placed in the student's final exam period, as the student must then be granted permission to participate in another re-exam.

Make-up exams and re-examinations will be conducted on the basis of goals identical to those applying to ordinary exams. The form of make-up exams and re-examinations will be decided individually.

It is not possible to retake an exam if the course has been passed before. When retaking exams or any other form of assessment, the last grade achieved is the grade that will appear on the diploma.

Appeals against examinations

Students are entitled to appeal against an exam or an assessment, if a student disagrees with an assessment or is unable to accept it for any other reason. For the specific rules on filing of appeals, including the possibility of having an appeals board look into the matter, and on the deadlines for filing of complaints, consult Executive Order no 714 of June 2012 on examination regulations supervised by the Ministry of Science, Innovation and Higher Education and University of Southern Denmark, Campus Slagelse published guidelines on appeals against examinations.

Other conditions

Studies abroad and credit transfer

University of Southern Denmark supports the student wanting to study abroad at schools that are equivalent to the learning goals of the Business Economics and Information Technology programme.

The 5th semester is the specialization semester and can be studied wholly or partially abroad.

The internship on the 6th semester of the programme can be performed abroad.

The Study Board may allow students to take elements of this programme (or parts of it) at another educational institution, provided that such elements or parts correspond to programme elements (or parts) of this programme. If such programme elements have been assessed in accordance with the 7-points scale at the examining educational institution, and provided that it corresponds to an entire course as described in these programme regulations, the grade will be transferred. In all other cases, the assessment will be transferred as "Passed" and will not form part of the grade average.

The Study Board may allow passed/completed programme elements from another Danish or foreign degree and graduate programme to take the place of programme elements under this programme. When approved, the educational element is considered to have been completed if passed in accordance with the regulations of the Danish or foreign programme concerned. Assessment will be transferred as "Passed" and will not form part of the grade average.

Leave of absence

If required for personal reasons, students may be granted leave of absence from the programme.

Dispensation from the Curriculum

In special circumstances, University of Southern Denmark can give dispensation from the regulations in the Curriculum that are not bound by the Acts and Orders.

Complaints

Complaints about decisions based on this curriculum should be submitted to the institution no more than two weeks after the decision has been announced to the person in question. The student can submit the decisions of University of Southern Denmark to the Danish Ministry of Education if the complaint regards legal matters. The complaint must be submitted to the institution, but addressed to the Danish Ministry of Education, no more than two weeks after the decision has been announced to the person in question. The institution will write a statement about which the complainant is entitled to comment within one week. The institution will then forward the complaint, the institution's statement, and the comments of the complainant, if any, to the Danish Ministry of Education.

Validity

This curriculum applies to students who begin their studies in September 2012 and later.

University of Southern Denmark