

LAUREA UNIVERSITY OF APPLIED SCIENCES
Complementary competence (bachelor's studies), Laurea Leppävaara, CCA16SY

		1. year
Y	CORE COMPETENCE	
T	COMPLEMENTARY COMPETENCE	493
R023	OTHER COMPLEMENTARY COMPETENCES	
A9344	Basic Studies in Mathematics	
R0226	Participation in Voluntary Work	0
R027	GUIDANCE AND EXPERTISE TRAINING	
01540	Tutoring	5
0398	MANAGEMENT AND WELLBEING SUPPORTING PROFESSIONAL GROWTH	
V1552	Improving Your Study Skills and Finding Your Strengths	5
R0223	Stress Tolerance	
A894	COMMUNICATION AND INTERACTION	
A9436	Basics of Digital Image Editing	5
R022	LANGUAGE SKILLS AND INTERNATIONAL COMPETENCE	
R0175	Preparatory Studies in English	3
R0078	Effective Spoken Communication in English	5
R0079	Effective Writing in English	5
R0085	Finnish for Working Life	5
R0076	Basics of Spanish	5
R0077	Developing Intercultural Competences	5
R0089	Language and Culture Tandem	5
A9444	Developing Cultural Skills in a Project Part I	5
A9445	Developing Cultural Skills in a Project Part II	10
R0233	Introduction to Finnish Language and Culture 1	5
0387	CUSTOMER KNOWLEDGE AS THE DRIVER OF MARKETING	
01455	Customer knowledge	5
01454	Managing customerships	10
01453	Neuromarketing	5
01537	Sustainable Business	5
0388	CUSTOMER-CENTRIC SUPPLY CHAIN MANAGEMENT	
01456	Customer-driven supply chain management	10
01457	Global sourcing	5
A830	FINANCIAL PLANNING	
A9174	Financial Analysis	5
A9175	Financial Planning and Control	10
A831	MANAGEMENT ACCOUNTING	
A9440	Budgeting	5
A9198	Customer Profitability	5
01391	Capital budgeting	5
A905	THE USER EXPERIENCE OF WORKPLACE	
A9345	New Ways of Working	10

A9449	Environmental Psychology	
A897	SMART CITY	
A9465	Cities and Innovations	
A9451	Real Estate Management	5
A896	ORGANIZATIONAL BEHAVIOR	
A9176	Organizational Culture and Behavior	10
A9177	Personal Leadership	5
A900	EUROFM SCHOOLS	
A9452	EuroFM Winter School	5
A9453	EuroFM Summer School	10
A842	ADVANCED WEB DEVELOPMENT	
A9151	Dynamic Web Applications	5
A9152	The Server-side of Web Applications	5
A9153	Web Development Frameworks	5
R057	WEB DEVELOPMENT	
R0330	Web Content Management Systems	
R0331	Dynamic Web Applications with Javascript	
R0314	Web App Development with MEAN	5
R0315	Web App Development with PHP/SQL	5
R0332	Project: Web App Development with a PHP Framework	
R0333	Project: Web App Development with a Javascript Framework	
R059	SOFTWARE PROGRAMMING	
R0317	Object-Oriented Programming with Java	5
R0336	Programming with Optional Languages	
R0337	Project: Developing an Application with an Object-Oriented Language	
A895	MOBILE APPLICATION DEVELOPMENT	
A9437	Introduction to Mobile Application Development	5
A9438	Native Mobile Applications Development	5
A9439	Mobile Applications Development Project	5
A843	CYBERSECURITY TECHNOLOGIES	
A9156	Emerging Technologies - Project 1	
A9157	Emerging Technologies - Project 2	
A9158	Cybersecurity	5
A9159	Systems Security	5
A9160	Network Security	5
A9161	Enterprise Applications Security	5
A845	INFORMATION INFRASTRUCTURE AND SECURITY	
A9184	Network Project	5
A9185	Network Applications	5
A9186	Networking Infrastructure	5

A846	INFORMATION SECURITY MANAGEMENT	
A9187	Introduction to Information Security	5
A9188	Information Security Management	5
A9189	Information Security Development Project	5
A878	PRODUCER OF EVENT SERVICES	
A9379	Developing Conference and Congress Services into an Experience	10
A9433	Developing Event Production by Service Design	5
A9434	Event Safety and Security	5
A9435	Event Management	10
A817	TOURISM SERVICE DEVELOPER	
A9182	Tourism Marketing	5
A9183	Planning and Development in Tourism	10
A9337	Discovering Tourism	5
A9346	Hotel Management	10
01473	Business Online Visibility	
A9448	Resettjänster i turistbranschen i Norden (Travel Services in Tourism Field in Nordic Countries)	5
A917	ENTREPRENEURIAL PROJECTS	
A9494	Individual Development Project in the Hospitality Field	5
A9495	Development Project in a Team in the Hospitality Field	5
A9496	Innovation Project	
A839	DEVELOPING INTERNATIONAL BUSINESS FOR SME'S	
A9202	International Service Business	5
A9339	International Market Entry	10
A9201	International Sales Negotiations	5
A840	ENTERPRISE SYSTEMS AND BUSINESS INTELLIGENCE	
A9169	Business Intelligence	10
A9170	Enterprise Systems	5
A892	CORPORATE SECURITY AND SAFETY OPERATIONS	
A9427	Occupational Safety and Personnel Security	10
A9428	Emergency preparedness	5
A9429	Physical security	5
A9443	Safety of Products and Services	5
A890	SECURITY AND SAFETY MANAGEMENT	
A9484	Basics of Corporate Security and Risk Management	10
A9419	Basics of Corporate Security and Safety	5
A9416	Business Continuity Planning	
A9430	Supply chain security	
A9421	Security and safety management	
A9490	Security and Safety Management as Part of Risk Management Process	10
A9431	Environmental Safety Management	5

A888	SECURITY OF SOCIETY	
A9499	International Security	5
A9412	International Security	10
A9414	Internal security	10
A9420	Crime prevention	5
0404	THE DEVELOPER OF DIGITAL HEALTH AND WELFARE SERVICES	
01548	The Citizens as Customers of Digital Health and Welfare Services	5
01549	The Digital Environment in Health and Welfare Services and its Ethics and Regulations	5
01550	Digital Service Development and Information Management in Health and Welfare Services	5
A829	COMMUNICATION AND INTERACTION	
A9248	Interaction and Networking Skills	5
		493

R023 OTHER COMPLEMENTARY COMPETENCES, 15 cr

Description:

The aim of the studies offered in this module is to develop student's basic knowledge and skills. The studies will give basic abilities for the student to be able to manage on his/her studies in his/her field of studies. The student will conduct the appropriate studies from this module according to the initial tests or his/her needs. After completing the studies the student will have gained basic knowledge and skills to develop his/her skills to apply these competences.

Also other studies which develop professional skills can be offered in this module. Studies completed elsewhere can always be placed in this module.

A9344 Basic Studies in Mathematics, 5 cr

The student is able to:

The student is able to

- solve mathematical problems at a level required in the UAS studies.

R0226 Participation in Voluntary Work, 0 cr

Study unit description:

The student participates in voluntary work during his/her studies. As a volunteer the student develops his/her general working life competences, professional competences and competence related to social /societal themes. The competence is acknowledged as part of the other studies.

R027 GUIDANCE AND EXPERTISE TRAINING, 15 cr

Description:

Expertise is born via guidance activities in the Guidance and expertise module.

Completing this module provides the student with varied expertise in guiding different people in different situations. The student will know how to support the development of both competence and identity, and to advise on the use of different tools. They know which actions promote a sense of community.

Learning process:

Competence as defined in this module can be developed by, for example, taking part in student union activities during study units. The working language can be either Finnish or English.

Responsible persons:

Teija Laamanen

01540 Tutoring, 5 cr

The student is able to:

The Student is able to

- evaluate tutoring from the perspective of their own campus and the campus's educational responsibilities
- provide guidance and advice to new students with regard to Laurea's practices and operational culture
- aware of and have a command of the systems currently in use
- create an expertise profile for themselves and can support new students in building an expertise profile in the kyvyt.fi portal
- know the learning environments on their campus and can, when necessary, represent the campus at different events
- have a command of the work methods related to career planning and are able, together with the teacher tutor, to support new students in themes related to career planning
- act as active promoters of well-being within the workplace and among students

0398 MANAGEMENT AND WELLBEING SUPPORTING PROFESSIONAL GROWTH, 30 cr

Description:

The core skill learnt in this module is the development of the individual's skills to support learning and well-being. The skills developed in the module help to improve learners' capacity for lifelong learning.

On completion of the module, students see evidence of improved self-knowledge and have the skills needed for self-management and self-development. They have the knowledge and skill needed to determine their own well-being.

Responsible persons:

Pirjo Nieminen

V1552 Improving Your Study Skills and Finding Your Strengths, 5 cr

The student is able to:

The student is able to

- improve his/her study motivation and time management
- recognize his/her learning styles and methods
- reflect on how to improve his/her studying skills and methods
- recognize his/her strengths and positive attitude
- minimize barriers in the study success

R0223 Stress Tolerance, 5 cr

The student is able to:

The student is able to

- recognize his/her stress factors
- improve his/her stress management skills
- improve his/her skills in carrying out studies and graduate in time
- manage his/her thesis angst and minimize barriers

A894 COMMUNICATION AND INTERACTION, 15 cr

Description:

During the module, the student will learn the basics of professional organizational communication. After completing the module, the student knows how to plan and implement an organization's communication. The student will be able to take into account an organization's strategic objectives and communicate effectively and consistently according to various stakeholders needs. The student will learn to utilize and choose appropriate communication channels, forums and different visual communication applications.

A9436 Basics of Digital Image Editing, 5 cr

The student is able to:

The student is able to:

- understand the basic theories of digital photoediting
- use digital image editing software in an advanced level for both online and print publishing

R022 LANGUAGE SKILLS AND INTERNATIONAL COMPETENCE, 15 cr

Description:

The aim of the study units in the module is to develop language skills and international competence needed at work.

After completing the module the student has developed his/her ability to work in multicultural working environments.

Learning process:

The competences described in the module can be developed either by participating in study units or working in projects. Please note that in some education forms projects are the primary way of gathering credits.

In the projects you participate in the development work of domestic or international businesses and communities and in project work. The language used in the project can be either Finnish or English. Projects can also focus on developing the student's own business. The topic of the project and the competences developed by participating in it will be clarified when the project is added to the study offer. The scope of the project will be agreed on in each case. The competences generated in the projects can partly be included in the learning outcomes of some other module(s) and thus the credits can be divided between several modules.

Responsible persons:

Leppävaara: Sirpa Rakkolainen

R0175 Preparatory Studies in English, 3 cr**The student is able to:**

The student is able to:

- participate effectively in English language tuition
- write coherent and grammatically correct English in the appropriate register
- present clearly and logically
- interact confidently

R0078 Effective Spoken Communication in English, 5 cr**The student is able to:**

The student is able to:

- deliver effective presentations and speeches in academic and general situations
- interact smoothly and take an active part in discussions and conversations
- understand the significance of nonverbal communication
- speak with improved pronunciation and a richer vocabulary

R0079 Effective Writing in English, 5 cr**The student is able to:**

The student is able to:

- develop writing skills in general and academic contexts, including essays, summaries and reports
- write more accurately and with an awareness of the correct style and layout
- avoid plagiarism by paraphrasing and using sources in the appropriate manner
- diagnose and remedy personal weaknesses in writing ability

R0085 Finnish for Working Life, 5 cr**The student is able to:**

The student is able to:

- write a CV in Finnish
- apply for a job
- be interviewed for a job
- present his/her workplace
- write work-related emails
- understand and use general work vocabulary

R0076 Basics of Spanish, 5 cr

The student is able to:

The student is able to:

- understand the basic structures and vocabulary of Spanish
- communicate in simple situations of everyday life
- write simple texts
- understand the main points in messages and in Spanish speech spoken at a normal speed about familiar subjects

R0077 Developing Intercultural Competences, 5 cr

The student is able to:

The student is able to:

- understand and interpret meanings of different cultural behaviors and phenomena
- apply cross-cultural knowledge to improve intercultural encounters
- work effectively in multicultural teams and work environments
- resolve intercultural conflicts in a professional manner

R0089 Language and Culture Tandem, 5 cr

The student is able to:

The Student is able to

- improve his/her target language skills, especially oral skills
- make observations and get familiar with target (foreign) culture and society
- expand his/her general cultural competence

A9444 Developing Cultural Skills in a Project Part I, 5 cr

The student is able to:

Having completed the study unit, the student is able to

- explore service ideas with cultural orientation
- discern business opportunities in international environments and communities

A9445 Developing Cultural Skills in a Project Part II, 10 cr

The student is able to:

The student is able to:

- develop service ideas with cultural orientation
- explore business opportunities in international environments and communities

R0233 Introduction to Finnish Language and Culture 1, 5 cr**The student is able to:**

The student is able to:

- speak and understand Finnish in very basic and familiar everyday situations
- find information in very short texts and write simple messages
- use some of the basic grammar structures
- become familiar with Finnish cultural manners and customs
- reach the target level of A1.1 in the Common European Framework of Reference for Languages

Study unit description:

The study unit is for those whose language of education and mother tongue are other than Finnish and Swedish and who have not studied Finnish before.

0387 CUSTOMER KNOWLEDGE AS THE DRIVER OF MARKETING, 15 cr**Description:**

The aim of the module is that the student will understand the essence of managing customerships. After completing the module, he/she will be able to evaluate customer information and market research and make use of them for the purpose of customership development.

Learning process:

The competences described in the module can be developed either by participating in study units or working in projects. Please note that in some education forms projects are the primary way of gathering credits.

In the projects you participate in the development work of domestic or international businesses and communities and in project work. The language used in the project can be either Finnish or English. Projects can also focus on developing the student's own business. The topic of the project and the competences developed by participating in it will be clarified when the project is added to the study offer. The scope of the project will be agreed on in each case. The competences generated in the projects can partly be included in the learning outcomes of some other module(s) and thus the credits can be divided between several modules.

Responsible persons:

The module is no longer offered.

01455 Customer knowledge, 5 cr**The student is able to:**

The student is able to:

- define factors that affect buying behavior
- use market research as a source of customer knowledge in the international business environment

01454 Managing customerships, 10 cr**The student is able to:**

The student is able to

- understand the meaning of managing customerships
- identify the main principles in customership management

- evaluate customer knowledge and use it for the purpose of customership development

01453 Neuromarketing, 5 cr

The student is able to:

The student is able to:

- apply the knowledge of neuroscience to marketing
- analyse marketing problems from the point of view of the brain's rewarding, fear and social circuitry

01537 Sustainable Business, 5 cr

The student is able to:

The Sustainable Business study unit develops the topics and themes introduced in the compulsory CSR study unit.

Contents of the study unit:

The content of the study unit comprises the following themes:

1. Ethics and leadership

Ethical decision making in business. How can an organization be highly ethical and make a profitable business?

2. Green growth

How to promote economic growth while ensuring that natural assets continue to provide the resources and environmental services that are necessary for our well-being. The effect of politics and trade agreements on green values.

3. Protecting people and environment.

What are the laws and regulations aimed at protecting the environment from harmful actions. How to ensure equality at work and occupational health and safety?

What are the requirements that guarantee product safety for the consumer?

4. Developing sustainable businesses

Sustainable business as a strategy for competitive advantage. Social entrepreneurship and the creation of business solutions for social problems.

0388 CUSTOMER-CENTRIC SUPPLY CHAIN MANAGEMENT, 15 cr

Description:

After completing the module, the student will be able to understand the different steps of the purchasing process and the effects of purchases and the supply chain on a company's profitability. The student will be able to work as a purchaser or seller in international business. He/she will be able to understand the requirements of the customer-centric supply chain and make decisions in supply chain management based on this.

Responsible persons:

The module is no longer offered.

01456 Customer-driven supply chain management, 10 cr

The student is able to:

The student is able to:

- understand how a company can create added value to its customers through supply chain management

- assess the effect of sales, purchasing and the supply chain on profitability
- plan the supply according to the demand
- optimize the efficiency of the supply chain
- define measures for supply chain management

01457 Global sourcing, 5 cr

The student is able to:

The student is able to:

- operate according to the purchasing process
- select and assess suppliers
- collaborate with the supplier network
- run supplier negotiations (quotations, contracts)
- take into consideration the special features of international trade (customs, import)

A830 FINANCIAL PLANNING, 15 cr

Description:

The student will be able to analyze financial statements (income statement, balance sheet, cash flow statement). He/she will be able to use financial indicators to analyze the profitability, liquidity and capital structure of an organization. The student will know how budgets can be used in financial planning, and he/she can calculate the cost of a product or service. The student will also be able to use Excel and Invest for Excel for capital budgeting.

Learning process:

The competences described in the module can be developed either by participating in study units or working in projects. Please note that in some education forms projects are the primary way of gathering credits.

In the projects you participate in the development work of domestic or international businesses and communities and in project work. The language used in the project can be either Finnish or English. Projects can also focus on developing the student's own business. The topic of the project and the competences developed by participating in it will be clarified when the project is added to the study offer. The scope of the project will be agreed on in each case. The competences generated in the projects can partly be included in the learning outcomes of some other module(s) and thus the credits can be divided between several modules.

Responsible persons:

The module is no longer offered.

A9174 Financial Analysis, 5 cr

The student is able to:

The student is able to

- analyse the income statement, balance sheet and cash flow statement
- calculate and use financial ratios to analyse the profitability, liquidity and capital structure of an organisation

A9175 Financial Planning and Control, 10 cr

The student is able to:

The student is able to

- prepare reports for management planning and control purposes
- prepare budgets and forecasts
- calculate the cost of a product or service using traditional cost accounting and activity-based costing
- use different investment criteria in capital budgeting
- manage working capital in day-to-day activities of an organisation

A831 MANAGEMENT ACCOUNTING, 15 cr

Description:

The student will deepen his/her knowledge on current issues in accounting. The student will be able to calculate the cost and price of a product or service. The student will know how different measurement systems and key performance indicators can be used in financial planning. The student will be able to analyze the profitability of a customer.

Learning process:

The competences described in the module can be developed either by participating in study units or working in projects. Please note that in some education forms projects are the primary way of gathering credits.

In the projects you participate in the development work of domestic or international businesses and communities and in project work. The language used in the project can be either Finnish or English. Projects can also focus on developing the student's own business. The topic of the project and the competences developed by participating in it will be clarified when the project is added to the study offer. The scope of the project will be agreed on in each case. The competences generated in the projects can partly be included in the learning outcomes of some other module(s) and thus the credits can be divided between several modules.

Responsible persons:

Leppävaara: Kaija Koivusalo

A9440 Budgeting, 5 cr

The student is able to:

The student is able to:

- understand how management can use budgets as a tool for leading the organisation toward its goals
- prepare operational budgets and the master budget and link the budgets to each other
- understand the behavioral implications of the budgeting process
- set targets for an organisation using financial ratios and key performance indicators

A9198 Customer Profitability, 5 cr

The student is able to:

The student is able to:

- analyse the profitability of customers
- use activity-based costing

01391 Capital budgeting, 5 cr

The student is able to:

The student is able to

- estimate the cash flow for a proposed investment or project
- set up a discounted cash flow analysis
- use investment criteria to determine whether or not a project is acceptable
- use scenario analysis and sensitivity analysis in decision making
- write an investment proposal for management
- use Excel and Invest for Excel in capital budgeting

A905 THE USER EXPERIENCE OF WORKPLACE, 15 cr

Description:

The student will get a general picture of planning processes and managing working environment projects.

After completing the module, the student will be able to understand the perspective of the end user in development projects and the responsibilities and roles of other actors. The student will be able to act in change processes.

The student will understand physical, social and virtual factors, which impact to the user experience of different spatial solutions and spatial networks.

Responsible persons:

Leppävaara: Kaisa Airo

A9345 New Ways of Working, 10 cr

The student is able to:

- Identify the user needs when planning and designing work stations and facilities
- To consider the diversified needs of individuals working in a variety of locations
- understand the relations between time and resources
- plan and coordinate acquisitions of work stations and facilities together with the customer and end-user

A9449 Environmental Psychology, 5 cr

The student is able to:

- Evaluate the perceptive attributes of space (audio, temperature, lumination etc.)
- Design spaces that support wellbeing of a user.
- Understand the social, physical and virtual characteristics of space and their influence on user.
- Understand the significance of heritage in spatial meaning

A897 SMART CITY, 15 cr

Description:

Module focuses on the real estate business from the perspective of the organization and urban environment. In addition, real estates and facilities are studied from the perspective of the spatial networks and technology between them.

The module introduces the traffic arrangements, the relationships between sites and the significance of the location. In addition, the aim is to study the impact of the location and people flows to the business and organizational activities. Alongside in this module student gets introduced to various smart city applications as well as their ability to develop new areas and facilities.

Responsible persons:

Leppävaara: Kaisa Airo

A9465 Cities and Innovations, 10 cr

The student is able to:

- Identify the interesting location of real estate on map
- Use and apply Smart City -applications
- Understand the differences between regions economically

- Identify the usability of traffic arrangements

A9451 Real Estate Management, 5 cr

The student is able to:

- Identify the key factors in property value to the organization
- Identify certification systems and understand their impact on CREM
- Understand the ecological attributes of real-estate/land in use

A896 ORGANIZATIONAL BEHAVIOR, 15 cr

Description:

After completing the module, the student has gained knowledge in understanding the importance of leadership when improving the quality and well-being of an organization as well as individual performance and productivity. The student is able to use various tools in a change process of an organization.

Content:

Course: Organizational Culture and Behavior 10 erts

Student is able to:

- understand the effects of organizational culture and behavior on performance and productivity;
- carry out an organizational analysis for a change program;
- discover the meaning of why leaders do what they do instead of focusing on what and how;
- understand the importance of intercultural and crisis communication in change situations
- apply strategic perspective into organizational and individual performance

Course: Personal Leadership 5 erts

Student is able to:

- identify the characteristics of leadership and understand theories behind them;
- carry out a personal leadership analysis based on influences from external and internal environments (outside-in/inside-out approach);
- identify factors and processes that play a role in recognizing people's motivations in change processes

Responsible persons:

Leppävaara: Anne Martola

A9176 Organizational Culture and Behavior, 10 cr

The student is able to:

The student is able to

- understand the effects of organizational culture and behavior on performance and productivity;
- carry out an organizational analysis for a change program;
- discover the meaning of why leaders do what they do instead of focusing on what and how;
- understand the importance of intercultural and crisis communication in change situations
- apply strategic perspective into organizational and individual performance

A9177 Personal Leadership, 5 cr

The student is able to:

The student is able

- to understand the meaning of personal leadership

- to identify the factors influencing personal behavior
- to identify his/her potential in the areas of personal leadership
- to use tools to develop self-knowledge, readiness to change and his/her professional identity.

A900 EUROFM SCHOOLS, 15 cr

Description:

Coming up

Responsible persons:

Leppävaara: Pekka Matvejeff

A9452 EuroFM Winter School, 5 cr

The student is able to:

Coming up

A9453 EuroFM Summer School, 10 cr

The student is able to:

Coming up

A842 ADVANCED WEB DEVELOPMENT, 15 cr

Description:

During this module, the student will learn and apply technologies and tools needed in the development of advanced websites and applications.

After completing this module, the student will be able to identify the role of advanced web development technologies and explain how they deliver value. The student will be able to set up a development environment associated with chosen technologies. He/she will be able to design and implement relational databases. In addition, he/she will be able to implement advanced websites and applications using chosen technologies.

Learning process:

The competences described in the module can be developed either by participating in study units or working in projects. Please note that in some education forms projects are the primary way of gathering credits.

In the projects you participate in the development work of domestic or international businesses and communities and in project work. The language used in the project can be either Finnish or English. Projects can also focus on developing the student's own business. The topic of the project and the competences developed by participating in it will be clarified when the project is added to the study offer. The scope of the project will be agreed on in each case. The competences generated in the projects can partly be included in the learning outcomes of some other module(s) and thus the credits can be divided between several modules.

Responsible persons:

Leppävaara: Antonius de Arruda Camara

Tikkurila: Mika Stenberg

A9151 Dynamic Web Applications, 5 cr

The student is able to:

The student is able to:

- identify the role of client-side web technologies and explain how they deliver value
- compare the features, benefits and applicability of major client-side web technologies available in the market
- set up a development environment associated with a selected client-side web technology
- design, develop and implement dynamic and interactive websites using a selected client-side technology

A9152 The Server-side of Web Applications, 5 cr

The student is able to:

The student is able to:

- install and configure database and web servers in a local computer
- design, develop and implement relational databases
- implement server-side web scripts using a selected scripting language
- implement server-side web scripts that interact with a relational database
- develop and demonstrate interactive web applications using a selected server-side technology

A9153 Web Development Frameworks, 5 cr

The student is able to:

The student is able to:

- identify the role of advanced web development frameworks and explain how they deliver value
- compare the features, benefits and applicability of major web development frameworks available in the market
- set up a development environment associated with a selected development framework
- design, develop and implement websites using a selected development framework

R057 WEB DEVELOPMENT, 30 cr

Description:

During this module, the student will learn and apply technologies and tools needed in the development of advanced websites and web based applications.

After completing this module, the student will be able to identify the role of advanced web development technologies and explain how they deliver value. The student will learn how to develop websites and web applications using technologies and tools that are currently adopted in the ICT field.

Responsible persons:

Not known; the module is not offered yet

R0330 Web Content Management Systems, 5 cr

The student is able to:

The student is able to

- identify the role of advanced web content management systems and explain how they deliver value
- compare the features, benefits and applicability of major web content management systems available in the market
- set up a development environment associated with a selected web content management system
- design, develop and implement websites using a selected web content management system

R0331 Dynamic Web Applications with Javascript, 5 cr

The student is able to:

The student is able to

- identify the role of client-side web technologies and explain how they deliver value
- compare the features, benefits and applicability of major client-side web technologies available in the market
- set up a development environment for implementing Javascript based web applications
- design, develop and implement dynamic and interactive web applications using Javascript based technologies

R0314 Web App Development with MEAN, 5 cr

The student is able to:

The student is able to

- describe the fundamentals of MEAN stack and how web developers can benefit from it
- install and configure a MEAN stack development environment
- design, develop and implement Node.js web applications
- implement server-side web scripts using Express.js framework
- implement server-side web scripts that interact with a relational and/or NoSQL database

R0315 Web App Development with PHP/SQL, 5 cr

The student is able to:

The student is able to

- develop and implement interactive web applications using PHP and relational databases
- use the PHP programming language to implement server-side scripts that interact with a relational database
- use online collaborative tools to build and deploy PHP based web applications
- manage the deployment process of PHP based web applications

R0332 Project: Web App Development with a PHP Framework, 5 cr

The student is able to:

The student is able to

- develop and implement interactive web applications using a PHP based development framework
- use current tools available in the market to build, deploy, and maintain a web application implemented with a PHP based framework

R0333 Project: Web App Development with a Javascript Framework, 5 cr

The student is able to:

The student is able to

- develop and implement interactive web applications using a Javascript based development framework
- use current tools available in the market to build, deploy, and maintain a web application implemented with a Javascript based framework

R059 SOFTWARE PROGRAMMING, 15 cr

Description:

In this module students will extend their skills in software development and programming skills. Students will learn the Object-Oriented programming paradigm, which is the foundation used in modern web and mobile development

frameworks. Student will also be able to learn programming languages currently used in the job market, and apply their skills in development projects.

Learning process:

The competences described in the module can be developed either by participating in study units or working in projects. Please note that in some education forms projects are the primary way of gathering credits.

In the projects you participate in the development work of domestic or international businesses and communities and in project work. The language used in the project can be either Finnish or English. Projects can also focus on developing the student's own business. The topic of the project and the competences developed by participating in it will be clarified when the project is added to the study offer. The scope of the project will be agreed on in each case. The competences generated in the projects can partly be included in the learning outcomes of some other module(s) and thus the credits can be divided between several modules.

Responsible persons:

Not known; the module is not offered yet

R0317 Object-Oriented Programming with Java, 5 cr

The student is able to:

The student is able to

- apply the principles of Object-Orientation programming
- design Object-Oriented applications using standard modeling methods
- use functionality from off-the-shelf libraries when developing an own application

R0336 Programming with Optional Languages, 5 cr

The student is able to:

The student is able to

- program with at least two new programming languages
- compare the features of different programming languages

R0337 Project: Developing an Application with an Object-Oriented Language, 5 cr

The student is able to:

The student is able to

- develop and implement desktop applications using a Object-Oriented programming language
- use current tools available in the market to build, deploy, and maintain a desktop application implemented with a Object-Oriented programming language

A895 MOBILE APPLICATION DEVELOPMENT, 15 cr

Description:

During this module, the student will learn and apply technologies and tools needed for developing mobile applications for a selected mobile platform.

After completing this module, the student will be able to describe key development frameworks for different mobile platforms. The student will be able to install and configure a development environment for a chosen mobile platform. He/she will be able to plan the design and implementation process of mobile applications. In addition, he/she will be able to design, develop and implement user interfaces for mobile applications and implement and demonstrate mobile applications.

The student will be able to:

plan, design, develop and implement mobile applications on a chosen platform.

Content:

- Every study unit has a different content.

- All three study unit forms deep know-how on mobile application development.

Learning process:

The competencies described in the module can be developed either by participating in study units or working in projects. Please note that in some education forms projects are the primary way of gathering credits.

In the projects, you participate in the development work of domestic or international businesses and communities and in project work. The language used in the project can be either Finnish or English. Projects can also focus on developing the student's own business. The topic of the project and the competencies developed by participating in it will be clarified when the project is added to the study offer. The scope of the project will be agreed on in each case. The competencies generated in the projects can partly be included in the learning outcomes of some other module(s) and thus the credits can be divided between several modules.

Responsible persons:

Leppävaara: Paresh Rathod

A9437 Introduction to Mobile Application Development, 5 cr

The student is able to:

- describe the key frameworks and required technologies to develop applications for the major mobile platforms in the industry
- configure and use a development environment for a chosen mobile platform
- design, develop and implement simple mobile applications using web technologies

Previous studies:

Fundamental knowledge of programming and web development helps smooth learning of this study unit.

A9438 Native Mobile Applications Development, 5 cr

The student is able to:

- configure and use native development environment
- apply guidelines and best practices to design user interfaces for native mobile applications
- design, develop and implement user interfaces for native mobile applications
- test and demonstrate the user interface of native mobile applications

Previous studies:

Fundamental knowledge of programming and web development helps smooth learning of this study unit.

A9439 Mobile Applications Development Project, 5 cr

The student is able to:

- plan and document the complete development process of a mobile application
- apply appropriate methods and technologies in the design, development and implementation of a mobile application
- identify and implement project management practices and techniques in a development project
- act as a team member and a key contributor in a development project of a mobile application

A843 CYBERSECURITY TECHNOLOGIES, 30 cr

Description:

The objective of the module is to familiarize the students with vulnerabilities, risks and threats in cyberspace.

The students will learn important practices used to safeguard information and systems of companies in Cyberspace. The students will gain knowledge and skills to manage vulnerabilities and threats in organizations' information networks. The acquired knowledge and skills will be applied in a project concentrating on substance covered in this module.

Learning process:

The competences described in the module can be developed either by participating in study units or working in projects. Please note that in some education forms projects are the primary way of gathering credits.

In the projects you participate in the development work of domestic or international businesses and communities and in project work. The language used in the project can be either Finnish or English. Projects can also focus on developing the student's own business. The topic of the project and the competences developed by participating in it will be clarified when the project is added to the study offer. The scope of the project will be agreed on in each case. The competences generated in the projects can partly be included in the learning outcomes of some other module(s) and thus the credits can be divided between several modules.

Responsible persons:

Leppävaara: Paresch Rathod

A9156 Emerging Technologies - Project 1, 5 cr**The student is able to:**

The student is able to:

- recognize current trends in emerging information security technologies
- identify and analyze the opportunities and security challenges of current information security tools and techniques
- plan, implement, document and present an information security project
- apply project management practices and techniques

A9157 Emerging Technologies - Project 2, 5 cr**The student is able to:**

The student is able to:

- recognize current trends in emerging information security technologies
- identify and analyze opportunities and security challenges of current information security tools and techniques
- plan, implement, document and present an information security project
- apply project management practices and technique

A9158 Cybersecurity, 5 cr**The student is able to:**

The student is able to:

- describe the body of knowledge essential to cybersecurity
- take sole responsibility for running an information security project
- plan, implement, document and present an information security project

A9159 Systems Security, 5 cr

The student is able to:

The student is able to:

identify threats, vulnerabilities and risks associated with operating systems
protect the systems of a company against known threats and risks
protect the network connections of distributed information systems
protect workstation and server environments
utilize Identity and Access Management (IAM) mechanisms

A9160 Network Security, 5 cr

The student is able to:

The student is able to:

- analyse the security of a data link layer and a network layer
- describe how cryptographic mechanisms work and how to apply them
- protect wireless LANs
- use intrusion detection and prevention systems to enhance network security

A9161 Enterprise Applications Security, 5 cr

The student is able to:

The student is able to:

- recognize information security risks related to web and email and how to avoid them
- describe and analyze information security risks and protection mechanisms related to cloud services
- analyze security risks related to the data terminal equipment of an organization and how to avoid them
- avoid social engineering type information security threats
- protect database applications against valid threats

A845 INFORMATION INFRASTRUCTURE AND SECURITY, 15 cr

Description:

The objective of the module is to gain understanding of the infrastructure of and the operations in modern communication networks. After completing this module student is able to configure basic network services in a secure way and anticipate future security threats based on structural vulnerabilities in IP networks.

Learning process:

The competences described in the module can be developed either by participating in study units or working in projects. Please note that in some education forms projects are the primary way of gathering credits.

In the projects you participate in the development work of domestic or international businesses and communities and in project work. The language used in the project can be either Finnish or English. Projects can also focus on developing the student's own business. The topic of the project and the competences developed by participating in it will be clarified when the project is added to the study offer. The scope of the project will be agreed on in each case. The competences generated in the projects can partly be included in the learning outcomes of some other module(s) and thus the credits can be divided between several modules.

Responsible persons:

Leppävaara: Seppo Koponen

A9184 Network Project, 5 cr**The student is able to:**

The student is able to

- work in a project related to network development
- solve problems related to network development, expansion, management and maintenance individually and as a member of a group

A9185 Network Applications, 5 cr**The student is able to:**

The student is able to:

- develop and manage LAN services
- identify common network applications for companies and the security threats directed at them.

A9186 Networking Infrastructure, 5 cr**The student is able to:**

The student is able to

- describe the operation and structure of LAN and WAN utilizing the OSI protocol model and main network protocols
- protect the networks of an organization against common information security threats on the Internet

A846 INFORMATION SECURITY MANAGEMENT, 15 cr**Description:**

The objective of the module is to understand, plan and implement information security management in an organization. The module will also enable the student to plan a comprehensive information security strategy and risk management system for an organization. The content of this module will provide the knowledge and skills to apply the basic principles of information security management, risk management, safeguarding and formulating continuity plans. The acquired knowledge and skills will be applied in a project concentrating on substance covered in the module.

Learning process:

The competences described in the module can be developed either by participating in study units or working in projects. Please note that in some education forms projects are the primary way of gathering credits.

In the projects you participate in the development work of domestic or international businesses and communities and in project work. The language used in the project can be either Finnish or English. Projects can also focus on developing the student's own business. The topic of the project and the competences developed by participating in it will be clarified when the project is added to the study offer. The scope of the project will be agreed on in each case. The competences generated in the projects can partly be included in the learning outcomes of some other module(s) and thus the credits can be divided between several modules.

Responsible persons:

Leppävaara: Pasi Kämppi

A9187 Introduction to Information Security, 5 cr

The student is able to:

The student is able to:

- use relevant concepts related to information security
- evaluate the importance of information security as a part of an organization's operations and the effect of information risks on an organization
- protect organizations against information security threats
- evaluate an organization's operations with regard to information security related legislation and standards

A9188 Information Security Management, 5 cr

The student is able to:

The student is able to:

- evaluate the significance of different roles and the information security organization for the implementation of information security
- evaluate information risks directed at organizations systematically and apply risk management practices
- design an information security management system for an organization
- identify the essential elements of the auditing process and evaluate the possibilities of auditing to develop information security in an organization
- apply standards in the development of information security in an organization
- draw contingency plans for information systems

A9189 Information Security Development Project , 5 cr

The student is able to:

The student is able to:

- recognize the need to develop information security
- plan, implement and document an information security development project for an organization
- apply the practices and techniques of project management

A878 PRODUCER OF EVENT SERVICES, 30 cr

Description:

The objective of the module is to develop competencies in planning and production related to event services.

After completing the module, the student will be able to plan, implement, manage, evaluate and develop customer-oriented event services profitably and safely while offering peak experiences in cooperation with the customers by using service design methods.

Responsible persons:

Leppävaara: Kaija Meriläinen

A9379 Developing Conference and Congress Services into an Experience, 10 cr

The student is able to:

The student is able to

- analyze the experience of a service from the viewpoint of a customer

- plan and implement international customer-oriented conference and congress services
- apply service design methods in the development towards peak experience
- implement a service as a conceptualization process
- analyze the value of an experience for the customer and the service provider

A9433 Developing Event Production by Service Design, 5 cr

The student is able to:

- interpret customer needs and trends as a basis of development
- develop the production process and production steering methods of an event
- apply service design methods in development

A9434 Event Safety and Security, 5 cr

The student is able to:

- recognize and define the regulations and risks related to event safety and security
- plan and implement a safety and security plan for an event
- produce a safe and functional space plan for an event

A9435 Event Management, 10 cr

The student is able to:

- plan and implement a customer-oriented event as a service concept
- manage the implementation process of an event in a goal-oriented and responsible manner
- evaluate an event from different perspectives (goals, financing, functionality, customer satisfaction)

A817 TOURISM SERVICE DEVELOPER, 30 cr

Description:

The objective of the module is to develop competencies in tourism services.

After completing the module, the student will be able to apply business thinking in tourism services. He/she will be able to develop customer-oriented services and processes in a hotel in accordance with quality guidelines. He/she will have an overall understanding of the travel and tourism sector. He/she will deepen his/her understanding with respect to marketing strategies in tourism services. He/she will be able to forecast future trends in planning and development.

Learning process:

The competences described in the module can be developed either by participating in study units or working in projects. Please note that in some education forms projects are the primary way of gathering credits.

In the projects you participate in the development work of domestic or international businesses and communities and in project work. The language used in the project can be either Finnish or English. Projects can also focus on developing the student's own business. The topic of the project and the competences developed by participating in it will be clarified when the project is added to the study offer. The scope of the project will be agreed on in each case. The competences generated in the projects can partly be included in the learning outcomes of some other module(s) and thus the credits can be divided between several modules.

Responsible persons:

Leppävaara: Marjaana Salomaa

A9182 Tourism Marketing, 5 cr

The student is able to:

The student is able to:

- analyze the marketing environment of the tourism sector
- plan and design experiential marketing strategies
- apply co-marketing in a digital environment with partners

A9183 Planning and Development in Tourism, 10 cr

The student is able to:

The student is able to:

- analyse tourism research
- apply future research methods in planning and developing tourism services
- implement co-creation methods with network partners in development

A9337 Discovering Tourism , 5 cr

The student is able to:

The student is able to:

- define tourism as a part of the global economy
- analyse the tourism sector

A9346 Hotel Management, 10 cr

The student is able to:

The student is able to:

- describe the business idea and model of a hotel
- identify and analyze hotel operations, functions and services
- practice front-line and back-office operations
- plan operations from the management perspective

01473 Business Online Visibility, 5 cr

The student is able to:

Managing online visibility and presence with interesting and engaging contents is one of the major issues in digital marketing. During this course we study different aspects of this and students learn to produce, publish and manage online content from the business perspective and understand the importance of stories, product information, multimedia content, and other online content in creating an online presence for a tourism business. After successful completion of the course the student

- knows different methods to do pre-research of social media visibility, target groups etc.
- can use keywords in effective marketing and social media contents
- is able create a paid campaign in internet and social media
- analyzes the success of social media efforts and gives grounded solutions based on them
- manages social media channels and contents in co-operation with customers

A9448 Resettjänster i turistbranschen i Norden (Travel Services in Tourism Field in Nordic Countries), 5 cr

The student is able to:

The student is able to

- discern tourism trends in Nordic countries
- develop tourism service ideas suitable for Nordic countries

A917 ENTREPRENEURIAL PROJECTS, 15 cr

Description:

After completing the module student is able to evaluate and develop their own entrepreneurial projects. Students develop the capacity to innovate the activities of business projects in the hospitality field.

The aim is that student is able to understand the requirements and the needs of agile projects development. The student will be able to act in changing project environments and to comprehend the responsibilities and roles of other project actors.

Responsible persons:

Sirkka Antinluoma

A9494 Individual Development Project in the Hospitality Field, 5 cr

The student is able to:

Student is able to:

- recognize and develop their own competence and evaluate competence required in entrepreneurial projects
- carry out own development project applying the newest existing knowledge
- building and strengthen own professional network in the hospitality field

A9495 Development Project in a Team in the Hospitality Field, 5 cr

The student is able to:

The student is able to:

- develop and strengthen own skills as working a team member in a development project
- recognize and evaluate development projects in the hospitality field
- co-operate with actors in the hospitality field

A9496 Innovation Project, 5 cr

The student is able to:

The student is able to:

- generate innovative ideas when developing entrepreneurial projects
- apply creative problem-solving and develop working methods
- get clear insights of future trends in hospitality fields

A839 DEVELOPING INTERNATIONAL BUSINESS FOR SME'S, 15 cr

Description:

The objective of the module is to develop the international business competencies in the context of SME's, from the viewpoint of development needs and strategies as well as market entry.

After completing the module, the student will be able to identify in- and outward internationalization patterns and value networks in service business. The student will be able to evaluate the impact of changing business environment on business operations and to search for market information to gain customer and market understanding. The student will be able to identify and assess market opportunities in specific target markets, to develop international marketing strategies and to plan for market entry.

The module has been designed for business students. It is also suitable for other students with interest in international business and basic knowledge of business management.

Learning process:

The competences described in the module can be developed either by participating in study units or working in projects. Please note that in some education forms projects are the primary way of gathering credits.

In the projects you participate in the development work of domestic or international businesses and communities and in project work. The language used in the project can be either Finnish or English. Projects can also focus on developing the student's own business. The topic of the project and the competences developed by participating in it will be clarified when the project is added to the study offer. The scope of the project will be agreed on in each case. The competences generated in the projects can partly be included in the learning outcomes of some other module(s) and thus the credits can be divided between several modules.

Responsible persons:

The module is no longer offered.

A9202 International Service Business, 5 cr

The student is able to:

The student will be able to

- identify and assess the main external and internal factors influencing the internationalization of service business
- describe the impacts that the extension of service out of the domestic context has on the development and delivery of service
- identify internationalization patterns of service business either in B2B or B2C context

A9339 International Market Entry, 10 cr

The student is able to:

The student will be able to

- evaluate the impact of the changing business environment on business operations
- search for market information to gain customer and market understanding
- identify and assess market opportunities in target markets
- identify cultural and ethical issues related to cross-cultural business
- develop international marketing strategies (7 P's) for target market oriented operations
- establish a market entry plan for a target market

A9201 International Sales Negotiations, 5 cr

The student is able to:

The student is able to:

- identify cultural and ethical issues related to sales negotiation and develop plans to respond to them
- describe and demonstrate how a salesperson should a) prepare for cross-cultural sales negotiations and b) adjust his/her behavior in a sales negotiation to respect and respond to the cultural background of the negotiation partners

A840 ENTERPRISE SYSTEMS AND BUSINESS INTELLIGENCE, 15 cr

Description:

The module covers the foundations to understanding ERP and managerial issues, such as using data effectively in

decision-making. The student will be able to understand how to use analytical tools that can be used in decision-making, and he/she will have analytical skills that enable him/her to work with the data, understand it and turn it into intelligence for particular decisional contexts. The student will also be able to integrate business processes and enterprise systems.

Learning process:

The competences described in the module can be developed either by participating in study units or working in projects. Please note that in some education forms projects are the primary way of gathering credits.

In the projects you participate in the development work of domestic or international businesses and communities and in project work. The language used in the project can be either Finnish or English. Projects can also focus on developing the student's own business. The topic of the project and the competences developed by participating in it will be clarified when the project is added to the study offer. The scope of the project will be agreed on in each case. The competences generated in the projects can partly be included in the learning outcomes of some other module(s) and thus the credits can be divided between several modules.

Responsible persons:

Leppävaara: Lassi Tissari

A9169 Business Intelligence, 10 cr

The student is able to:

The student is able to

- understand the connection between the analytical tools that can be used on real data in companies and the decision-making.
- use analytical skills to work with the data, to understand it and to turn it into intelligence for particular decisional contexts.

A9170 Enterprise Systems, 5 cr

The student is able to:

The student is able to

- use enterprise systems, particularly ERP (Enterprise Resource Planning) systems.
- integrate business processes and enterprise systems
- give value to the processes of acquiring, implementing, maintaining and operating

A892 CORPORATE SECURITY AND SAFETY OPERATIONS, 30 cr

Description:

This module deals the elements of security and safety, risk management methods, development, and relationship between business operations and elements of security and safety on corporations and organisations.

After completing the studies the student is able to define the contents of the elements of security and safety according to the needs of organisation. He/she can apply requirements set by legislation, directives and guidelines. He/she is also able to apply risk management methods to identify, evaluate and manage risks. The student is able to develop security and safety in each element in cooperation with own and associate organisations.

Learning process:

The competences described in the module can be developed either by participating in study units or working in projects. Please note that in some education forms projects are the primary way of gathering credits.

In the projects you participate in the development work of domestic or international businesses and communities and in project work. The language used in the project can be either Finnish or English. Projects can also focus on developing the student's own business. The topic of the project and the competences developed by participating in it will be clarified when the project is added to the study offer. The scope of the project will be agreed on in each case.

The competences generated in the projects can partly be included in the learning outcomes of some other module(s) and thus the credits can be divided between several modules.

Responsible persons:

The module is no more offered in 2018.

A9427 Occupational Safety and Personnel Security, 10 cr

The student is able to:

The student is able to:

- apply the requirements set by legislation, directives and guidelines concerning occupational safety and personnel security
- apply risk management methods to identify, evaluate and manage occupational safety and personnel security risks
- create and develop operational models, plans and guidelines according to the needs of the organisation
- carry out constant surveillance and evaluation of working conditions and level of safety and security

A9428 Emergency preparedness, 5 cr

The student is able to:

Student is able to:

- Apply the requirements set by legislation, directives and guidelines concerning emergency preparedness
- Apply risk management methods to identify, evaluate and manage accident risks
- Create and develop operational models, plans and guidelines according to the needs of the organisation
- Carry out constant surveillance and evaluation of emergency preparedness

A9429 Physical security, 5 cr

The student is able to:

Student is able to:

- Apply the requirements set by legislation, directives and guidelines concerning physical security
- Apply risk management methods to identify, evaluate and manage crime risks and vulnerabilities in facilities and operations
- Key operating principles of physical security solutions
- Create and develop physical security operational models, plans and guidelines as a part of facility management

A9443 Safety of Products and Services, 5 cr

The student is able to:

Student is able to:

- apply the requirements set by legislation, directives and guidelines concerning safety of products and services
- apply risk management methods to identify, evaluate and manage risks related to products and services
- create and develop operational models, plans and guidelines for safe use of products and safe service production

Previous studies:

Before enrolling to this study unit, you should have adequate competence level of security management, which you can acquire for example by completing study unit: A9484 Basics of Corporate Security and Risk Management 10 credits.

A890 SECURITY AND SAFETY MANAGEMENT, 25 cr

Description:

This module deals with the content and basics of security and safety management, risk management methods and planning and development of security and safety management as part of corporations' and organisations' management.

The student will be able to:

Student is able to:

- Define the content of security and safety management according the needs of the organisation
- Apply requirements set by legislation, directives and guidelines
- Apply enterprise risk management methods to identify, evaluate and manage risks
- Plan, develop and evaluate security and safety management and the level of security and safety in cooperation with own and associate organisation

Responsible persons:

Tuomas Wuorikoski

The module is no more in study offering in 2018.

A9484 Basics of Corporate Security and Risk Management, 10 cr**The student is able to:**

The student is able to

- recognise the central competence requirements of an expert in security management
- understand the different areas in the security of companies and organisations and the relationships between those areas
- demonstrate a command of the main basic concepts and areas in corporate security
- understand the ethical foundations of security management and the principles of the key legislation relating to it
- understand the principles of risk management and the methods of risk assessment, and is able to choose the methods suitable for different uses and purposes and use them in assessing risks

A9419 Basics of Corporate Security and Safety, 5 cr**The student is able to:**

Student is able to:

- Understand the basic requirements set by legislation, directives and guidelines regarding security and safety in corporations and organisations
- Understand the different modelling approaches of corporate/organisational security and safety, the key content of the elements of security and safety and their connection with organisations' other operations.
- Understand the duties of relevant external parties and their importance to security and safety
- Understand the basics of risk evaluation methods and security and safety development methods

A9416 Business Continuity Planning, 5 cr**The student is able to:**

The student is able to:

- identify critical business operations
- carry out a vulnerability and a business impact analysis
- prepare a business continuity plan

A9430 Supply chain security, 5 cr

The student is able to:

Student is able to:

- Apply requirements set by legislation, directives and guidelines regarding supply chain security
- Apply risk management methods to identify, evaluate and manage operative supply chain risks
- Create and develop operational models, plans and guidelines according to the needs of the organisation.

A9421 Security and safety management, 10 cr**The student is able to:**

Student is able to:

- Apply requirements set by legislation, directives and guidelines regarding security and safety management
- Apply enterprise risk management methods to identify, evaluate and manage risks
- Create a security and safety management system, evaluate and develop security and safety management as part of the organisations' management
- Create operational security and safety models for crises, disturbances and exceptional circumstances

Previous studies:

A9419 Basics of Corporate Security and Safety ja A9416 Business Continuity Planning and minimum 10cr other studies of security management and also study unit Organizational Management and Leadership.

A9490 Security and Safety Management as Part of Risk Management Process, 10 cr**The student is able to:**

The student is able to:

- apply requirements set by legislation, directives and guidelines regarding security and safety management and risk management
- apply enterprise risk management methods to identify, evaluate and manage risks
- create a security and safety management system and evaluate and develop security and safety management as part of risk management process
- create operational security and safety models for crises, disturbances and exceptional circumstances
- analyse and develop security and safety culture as part of organizational culture

Previous studies:

Before enrolling to this study unit, you should have adequate competence level of security management, which you can acquire for example by completing study unit: A9484 Basics of Corporate Security and Risk Management 10 cr.

A9431 Environmental Safety Management, 5 cr**The student is able to:**

Student is able to:

- Apply requirements set by legislation, directives and guidelines regarding environmental safety
- Apply a variety of methods to identify and evaluate environmental impact
- Plan, develop and evaluate the management and the level of environmental safety

A888 SECURITY OF SOCIETY, 15 cr**Description:**

The key topics of this module are international and domestic security phenomenon and operators. The basics of crime prevention will create an ability to plan and execute corporate assets protection plan.

The student will be able to:

- know the basics of crisis management and conflict prevention (incl. domestic and intl. actors)
- analyse how different crises types can influence Finland's domestic security
- execute key elements of internal security and local security planning
- know basics of crime prevention and is able to plan actions needed

Responsible persons:

Leppävaara: Lasse Kivinen

A9499 International Security, 5 cr**The student is able to:**

The student is able to

- analyze the international security environment
- describe the major International actors and their roles in international Conflict Prevention
- describe the major Conflict prevention documents and mechanisms, e.g. in the European Union
- is aware of the concept of Comprehensive Crisis Management
- understands the context of Border Security as part of international and national security environment
- identify international mobility and its origins
- analyze current and past International Crisis's using the Conflict Cycle
- analyze the future trends in International Security

Previous studies:

Before enrolling to this study unit, you should have adequate competence level of security management, which you can acquire for example by completing study unit: A9484 Basics of Corporate Security and Risk Management 10 credits.

A9412 International Security, 10 cr**The student is able to:**

The student is able to:

- identify the cycle of crises
- identify international and domestic actors in this field
- analyze the impacts of different crises on an organization
- organize a crisis management process in organizations

A9414 Internal security, 10 cr**The student is able to:**

- know the comprehensive internal security and roles of its key players
- know the value of border security in the security of society
- identify the cooperation between different domestic security agencies
- execute key elements of domestic security and local security planning

A9420 Crime prevention, 5 cr**The student is able to:**

- know the basics of criminology and crime prevention
- use different risk evaluation methods to identify and assess crime threats
- cooperate with in own company and with external stakeholders
- plan and execute crime prevention improvement methods

0404 THE DEVELOPER OF DIGITAL HEALTH AND WELFARE SERVICES, 15 cr

Description:

It starts with the unit where the main content is the citizen as customer in digital health and welfare services and how professionals are communicating in a digital environment. Then comes the study unit about digital health and welfare environment's with ethics and regulation in healthcare. At last comes the service design study unit, that will increase participant's competences about customer oriented user centered service design and co-creation process.

Responsible persons:

Otaniemi: Mikko Julin and Tuula Saarnio

01548 The Citizens as Customers of Digital Health and Welfare Services, 5 cr

The student is able to:

The Student is able to

- recognize and use e-Health and welfare services as they are today and recognize trends in future.
- discuss and describe what "citizen as customer of health and welfare services" means.
- empower customers to participate in their own health and welfare service in digital area.
- identify the need for professional-level communication in digital environments.
- guide the citizens in using digital eHealth and eWelfare service.

01549 The Digital Environment in Health and Welfare Services and its Ethics and Regulations, 5 cr

The student is able to:

The Student is able to

- understand basic health and social care informatics
- understand basic methods of technical informatics/computer science,
- understand and apply principles of evidence-based practice and evidence based clinical pathways
- understand and apply legal knowledge of confidentiality, IT-security and patient data privacy and protection

Contents of the study unit:

This study unit deals with health informatics and the general process of digitalization in health and welfare and the laws and regulations surrounding it.

- Partnership countries health and welfare environment, health and welfare informatics environment ex. Kanta services, Estonian X-Road
- How to store data, share data, refine data different databases
- Ethics, laws and regulations and customer safety data privacy and security
- Structural data, health and social classifications, the basic elements of support of decision making systems

01550 Digital Service Development and Information Management in Health and Welfare Services, 5 cr

The student is able to:

The Student is able to

- understand user centered service design and multi professional development process to digital services
- be able to apply future orientation and solutions centric working habits
- to understand different kind of data sources and structures and future possibilities to utilize data analytics for citizens' health promotion

Contents of the study unit:

The content of study unit

- service design process
- user centered approach
- future orientation and creative working habits
- project management and online collaboration
- databases and health information system usage and security
- Image analysis (Xray, brainscans, etc.) & remote diagnostics
- Internet of Things/sensor technology/wearables growing, so much more data available from individuals (MyHealth-data).
- Analytics and visualization

Study unit description:

This study unit deals with the development of digital services and the creation of competence in service design process. In the group-works there are lots of variations of service - service design, digital service, healthcare service. The aim of this study unit is to give future professionals skills in developing improved e-Health services. The point is give orientation and create interest to this topics.

A829 COMMUNICATION AND INTERACTION, 15 cr

Description:

During the module, the student will learn the basics of professional organizational communication. After completing the module, the student knows how to plan and implement an organization's communication. The student will be able to take into account an organization's strategic objectives and communicate effectively and consistently according to various stakeholders needs. The student will learn to utilize and choose appropriate communication channels, forums and different visual communication applications.

Learning process:

The competences described in the module can be developed either by participating in study units or working in projects. Please note that in some education forms projects are the primary way of gathering credits.

In the projects you participate in the development work of domestic or international businesses and communities and in project work. The language used in the project can be either Finnish or English. Projects can also focus on developing the student's own business. The topic of the project and the competences developed by participating in it will be clarified when the project is added to the study offer. The scope of the project will be agreed on in each case. The competences generated in the projects can partly be included in the learning outcomes of some other module(s) and thus the credits can be divided between several modules.

A9248 Interaction and Networking Skills, 5 cr

The student is able to:

The student is able to

- build and maintain strategic networks in various forums
- utilize technology in interaction
- promote the organization's interaction and communicative goals with different stakeholder groups internationally
- extend written and spoken communication skills online and face-to-face.