

LAUREA UNIVERSITY OF APPLIED SCIENCES
Complementary competence (bachelor's studies), Laurea Leppävaara, CCA17SY
1. year

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R0357	Enterprise Systems	5
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A912	RISK MANAGEMENT	
A9490	Security and Safety Management as Part of Risk Management Process	10
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A9492	Environmental Safety Management	5
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A9501	Physical Security	5
A9443	Safety of Products and Services	5
A9516	Museum Security	5
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R027	GUIDANCE AND EXPERTISE TRAINING	
01540	Tutoring	5
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R0311	Environmental Psychology	

R055	SMART CITY	
R0312	Regions and Innovations	
R0313	Real Estate Management	5
A817	TOURISM SERVICE DEVELOPER	
A9182	Tourism Marketing	
A9183	Planning and Development in Tourism	
A9337	Discovering Tourism	5
A9346	Hotel Management	10
01473	Business Online Visibility	5
A9448	Resettjänster i turistbranschen i Norden (Travel Services in Tourism Field in Nordic Countries)	5
R0172	As a Bachelor of Hospitality Management Now and in the Future	
A820	INNOVATING FOOD SERVICES	
A9219	Current Issues and Future Trends in Hospitality Field	5
A9220	Developing Food Services into an Experience	
A9221	Food and Beverages	
A9222	Food for Health	
A9223	Developing Sensory Quality of Food Services	
A9400	Food event production	
R0382	Food and Food Services Safety	
A878	PRODUCER OF EVENT SERVICES	
A9379	Developing Conference and Congress Services into an Experience	
A9433	Developing Event Production by Service Design	
A9434	Event Safety and Security	5
A9435	Event Management	10
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	
R057	WEB DEVELOPMENT	
R0330	Web Content Management Systems	5
R0331	Dynamic Web Applications with Javascript	5
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	
R058	MOBILE APPLICATION DEVELOPMENT	
R0334	Introduction to Mobile App Design and Development	5
R0316	Native Mobile Application Development	5
R0335	Building and Deploying Cross Platform Mobile Apps	
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	
A846	INFORMATION SECURITY MANAGEMENT	
R0318	Introduction to Information Security	5
R0319	Information Security Management	5
R0320	Information Security Development Project	5
A9187	Introduction to Information Security	
A9188	Information Security Management	
A9189	Information Security Development Project	
A845	INFORMATION INFRASTRUCTURE AND SECURITY	
R0385	Internet Infrastructure and Security	5
A9185	Network Applications	5
R0386	Contemporary Issues in Networking and Network Security	5
A9184	Network Project	
A9186	Networking Infrastructure	
R060	CYBERSECURITY TECHNOLOGIES	
R0321	Cybersecurity	
R0322	Systems Security	5
R0323	Enterprise Applications Security	5
R0324	Network Security	5
R0325	Cybersecurity in Emerging Environments	
R0326	Cybersecurity Applied Project	
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
		375

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

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

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.

R0258 Introduction to Finnish Language and Culture 2, 5 cr**The student is able to:**

The student is able to

- speak and understand Finnish in basic and familiar everyday situations
- understand and write very short and simple texts
- use basic grammar structures
- become familiar with Finnish cultural manners and customs
- reach the target level A1.2 in the Common European Framework of Reference for Languages

R0259 Intermediate Finnish, 5 cr**The student is able to:**

The student is able to

- interact in various social situations
- develop her/his Finnish skills independently
- understand Finnish lifestyle and Finns more deeply
- use most frequent grammar structures to convey her/his message in spite of possible mistakes
- reach the target level A1.3-A2.1 in the Common European Framework of Reference for Languages

R0257 Finnish Culture and Communication for Exchange Students, 5 cr**The student is able to:**

The student is able to

- obtain an understanding of Finnish culture
- recognize the special characteristics of Finnish communication
- have knowledge in basic Finnish vocabulary and expressions

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

R0261 Basics of Swedish, 5 cr**The student is able to:**

The student is able to

- understand the basic structures and vocabulary of Swedish
- communicate in simple situations of everyday life

- write simple texts
- understand the main points in messages and in Swedish speech spoken at a normal speed about familiar subjects
- reach the target level of A1.1 in the Common European Framework of Reference for Languages

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

R0260 Introduction to Social and Healthcare Finnish, 5 cr

The student is able to:

The student is able to

- communicate both orally and literally in frequent situations in professional field
- further develop skills and understanding of communication culture in Finland
- retrieve information and vocabulary of Social Services and Healthcare using Finnish sources

V1601 Nursing Documentation, 5 cr

The student is able to:

The student is able to

- communicate both orally and literally in various situations of nursing in Finnish
- develop skills and understanding of professional instructions, documentation and multi-disciplinary interaction
- use relevant information of nursing practises and producing structured professional documents

R0262 International Professional Development, 5 cr

The student is able to:

The student is able to:

- understand his/her future profession from a global perspective
- follow topical international development in his/her field

- recognize European/ global trends in their field

R0263 Go abroad - Multicultural Teamwork and Student Mobility, 5 cr

The student is able to:

The student is able to:

- arrange practicalities related to studies/traineeship abroad
- understand different dynamics in multicultural teamwork
- recognise international competences and develop them further

R0264 Multicultural Teamwork in the 21st Century, 5 cr

The student is able to:

The student is able to:

- recognize and reflect on features of his/her own cultural values, assumptions and culturally specific behaviour
- apply mental management strategies to enrich multicultural teamwork
- develop his/her own communication strategies for multicultural encounters

R0126 Going Abroad, 3 cr

The student is able to:

The student is able to

- function and communicate successfully in interactive situations of the international study and/or work community
- communicate in intercultural situations
- recognize different stages of culture shock
- fill and compile documents related to mobility
- take into consideration health, safety & security issues abroad
- tell about Finnish culture and education system and studying in Laurea

Previous studies:

Prerequisites: having been accepted to go on exchange or placement abroad.

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

V1533 Advanced Finnish, 5 cr

The student is able to:

The student is able to

- understand extended speech provided the topic is reasonably familiar
- interact with a degree of fluency and spontaneity
- take an active part in discussion in familiar contents
- read articles and reports about contemporary problems
- present a clear, detailed description on a wide range of subjects related to a field of expertise
- write a clear, detailed text on a wide range of subjects related to a field of expertise

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

01528 Growth in groups, 5 cr

The student is able to:

- Students learn to find ways to prevent stress, burnout and depression.
- Students learn to notice the link between feelings, thoughts and moods.

Contents of the study unit:

- Hyvä arki, toiminta ja ajankäyttö
- Hyvinvointi, stressi ja ongelmanratkaisu
- Tunteiden ja ajatusten tunnistaminen
- Itsetunto ja ajatusten muuttaminen
- Sosiaaliset suhteet ja taidot
- Hyvä arki ja elämä - ole oman elämäsi tähti

01529 Tame Your Performance Anxiety, 5 cr

The student is able to:

Students are able

- to identify and analyse their performance anxiety
- to use their self-knowledge when reflecting on the causes of their performance anxiety
- to find ways to manage their performance anxiety and boost their confidence
- perform more confidently

Contents of the study unit:

- orientaatiotehtävä aiheeseen
- esiintymisjännitys
- esiintymisjännityksen ilmenemismuodot
- kokemukset esiintymisjännityksestä
- selviytymiskeinoja esiintymisjännitykseen
- esiintymistilanteiden harjoittelu

01530 Improving Your Study Skills and Finding Your Strengths, 5 cr

The student is able to:

- The aim is to increase motivation to study.
- This involves examination of students' own study habits and their development.

- The objective is for students to learn to recognise their own ways of learning, be able to assess their own learning and studies, and learn to identify barriers to, and the resources available for, their studies

Contents of the study unit:

- laatia tavoitteita ja aikatauluja opiskeluunsa
- hyödyntää erilaisia oppimistekniikoita opiskelussaan
- tarkastella omaa opiskelumotivaatiotansa ja parantaa sitä
- käyttää omia voimavarojaan ja tunnistaa stressin varoitusmerkkejä
- havainnoida tunteiden, asenteiden ja ilmapiirin vaikutusta opiskeluunsa
- tarkastella itseään oppijana
- suunnitella ja jäsentää omaan elämäänsä kokonaisuutena tasapainoisemmaksi

01531 Ups and Downs in a Relationship, 5 cr

The student is able to:

Students are able both to develop their professionalism in relationships and their relationship skills. Those who achieve a pass in the course

- are aware of the key issues that relate to starting, maintaining and terminating relationships and the relevant solutions.
- are able to apply the theory, practice exercises, face-to-face instruction, and assignments covered during the course, as well as the discussions connected with these, in their own relationships and professional work.

Contents of the study unit:

Omien taustojen merkitys parisuhteelle, parisuhteen vaiheet, roolimallit, tunteiden tunnistaminen, ristiriitojen käsittely, pariviestintä, yksinäisyyden ja kumppaniin kohdistuvien toiveiden käsittely, seksuaalisuus sekä pettymysten ja eron selvittelykeinot.

Etukäteis- ja välitehtävissä käytettävä kirjallinen materiaali:

Pruuki, Timoria & Väättäinen: Pari suhteessa. Tunne itsesi, uskalla rakastaa (Otava, Keuruu 2013).

Luukkala, Jouni: Kukoistava parisuhde - parisuhteen psykologia (Duodecim 2015)

Kallio, Maaret & Kontula, Osmo: Happy End - Seksuaalisesti vireät pitkät parisuhteet (WSOY 2015)

Ammatilliseen reflektointiin käytetään materiaaleja mm. osoitteessa

<http://www.city.fi/blogit/suhdeklินิกka>

V0155 Psychodrama Growth Group, 5 cr

The student is able to:

Students are able

- to identify and control the factors that affect well-being, functional ability and self-knowledge
- find ways to strengthen professional growth and identity
- to find ways to strengthen professional growth and identity in the group and recognise their approach to interaction and roles within the group
- to understand the basics of the psychodrama method and the principles underlying the work

01535 Developing of Stress Coping Skills, 5 cr

The student is able to:

Students are able to

- identify the different factors that cause stress
- use their own self-knowledge when reflecting on the causes of stress
- assess their own solutions for stress management
- employ various stress management techniques and remedies
- develop theoretical knowledge and skills in the area of stress management

Contents of the study unit:

- rentoutumis ja mindfulness – harjoituksia
- eri stressitekijöiden ja -tilanteiden tarkastelua
- stressin vaikutukset kehossa ja mielessä
- stressiä lieventävien keinojen kartoittaminen ja löytäminen
- ratkaisu- ja voimavarakeskeisten harjoitusten tekeminen

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

01571 The Natural Way to Promote Well-being and to Approach Studies, 5 cr**The student is able to:**

Students are able

- to identify the natural environment's rejuvenating effects and its capacity for enhancing well-being
- to make use of practical, natural methods to help them strengthen their well-being and capacity for study

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

R049 CUSTOMER RELATIONSHIPS AND MARKETING, 30 cr

Description:

The objective of the module is for the student to acquire a command of marketing and sales planning as well as of the development of customer relationships. The student is able to plan and develop the company's customer management processes target group-specifically with the goal of achieving profitable and long-term customer relationships.

The student is able to develop the strategic solutions that apply to marketing competition methods for different customer target groups. The student is able to utilise the data from a customer data system with the objective of achieving a profitable customer capital for the company.

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:

Hyvinkää: Pyry Airaksinen, Pirjo Lappalainen

Leppävaara: Anne Martola

Tikkurila: not defined

R0289 Personal Sales Work, 5 cr

The student is able to:

The student is able

- to act in a customer-centred manner in solutions sales
- to identify the corporate customer's situation and needs as well as to use interaction methods suited for the situation
- to take profitability, ethicalness and legal issues into account in sales work
- to use a customer data system

R0388 Customer Relationship Management, 10 cr

The student is able to:

The student is able

- to describe the customer's purchase process and communicate about the benefits produced for customers
- to analyse the factors related to purchasing behaviour
- to identify the different roles taken on by company management
- to gather and utilise data on customers
- to create a customer relationship management plan and organisation
- to select operative measures for sales and marketing

R0291 Analysis of Customer Capital, 5 cr

The student is able to:

The student is able

- to identify customer capital as part of the company's immaterial assets

- to measure customer profitability and have a knowledge of the key methods and measures used for customer profitability and customer capital
- to produce a development plan for the organisation that will promote customer profitability

R0292 Market Segmentation, 5 cr

The student is able to:

The student is able

- to divide the potential markets into target groups on the basis of market segmentation criteria
- to adjust product and service ranges as well as marketing communications so that they are suited for the target groups
- to analyse the effectiveness of segmentation solutions

R0384 Event Marketing, 5 cr

The student is able to:

The student is able

- to plan and realise an event and its marketing
- to utilise an event in the management of customer relations
- to monitor and measure the realisation of an event's objectives

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.

R068 LOGISTICS AND INTERNATIONAL TRADE , 30 cr**Description:**

During the module, the student's knowledge and understanding of demand-based supply chain management and international trade will grow.

After completing the module, the student is able to implement solutions to the supply chain that will meet with customer needs and to assess their profitability impacts. The student knows the special characteristics of service exports and the practices of foreign trade. The student is able to act as a buyer in the international markets and recognise the market potential of products and services. The student is able to build a feasible foreign trade launch plan for a chosen target group.

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: Mervi Saarela

Tikkurila: not offered yet

R0427 Customer-based Supply Chain Management , 10 cr**The student is able to:**

The student is able

- to produce added value for his/her customers in e.g. an online store
- to assess the effects of procurements, the supply chain and sales on the profitability of the organisation
- to utilise and draw up instruments and tools for the management of a supply chain
- to take into account different customer relationships and adjust the supply chain's activities so they meet with the customers' needs
- to utilise information on customer needs and demand volumes in procurements
- to take into account the typical characteristics of exports in logistics

R0300 International Purchasing Expertise, 5 cr

The student is able to:

The student is able

- to describe the specificities of international trade (customs, imports)
- to select and assess suppliers
- to work in cooperation with the supplier network
- to negotiate on procurements (tenders, agreements)
- to act in accordance with the purchasing process also in public procurements

R0301 Market Entry, 10 cr

The student is able to:

The student is able to

- evaluate the impact of the changing environment on business operations
- assess preconditions for internationalisation for a company
- search for information to assess market opportunities
- establish a market entry plan
- act situation-oriented in cross-cultural sales negotiations

R0302 Exporting Services, 5 cr

The student is able to:

The student is able to

- identify the role of services in international trade
- define internationalization strategies of services and determinants of success in exporting services
- analyse internationalisation modes of service companies in different sectors

R063 ACCOUNTING AND FINANCE, 30 cr

Description:

The goal of the module is to give students a more in-depth understanding of financial administration and finance.

After completing the module, the student will be able to complete a company's accounting and draw up the final accounts reports. The student is able to interpret and analyse the company's financial data and utilise it in decision making. The student understands the different functions related to finance and is able to plan the realisation of a company's finance. The student acquires in-depth knowledge on an organisation's financial planning and administration, as well as on how to draw up budgets, costs calculations and investment calculations. The student uses an integrated financial administration data system and utilises the possibilities brought about by digital financial administration.

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: Lauri Larjavaara

Tikkurila: not in the current offering

R0340 Financial Analysis, 5 cr**The student is able to:**

The student is able to

- analyze the income statement, balance sheet and cash flow statement
- prepare a cash flow statement
- calculate and analyze financial ratios and use industry benchmarks
- make financial forecasts using different methods
- conduct a corporate analysis

R0344 Business 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

R066 MANAGEMENT ACCOUNTING, 15 cr**Description:**

In this module the student will deepen his/her knowledge on current issues in management accounting.

After completing the module the student will be able to develop the budgeting process and understand the behavioral implications of the process. The student will be able to calculate the cost and price of a product or service. The student will learn to set up a discounted cash flow analysis and determine the feasibility of a project. The student will know how different measurement systems and key performance indicators can be used in financial planning.

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

R0353 Strategic Management Accounting, 5 cr**The student is able to:**

The student is able to

- prepare operational budgets and the master budget and link the budgets to each other

- understand the key issues in strategic budgeting, eg. long-term budgeting, balance sheet, investment planning, growth strategies
- make conclusions on past performance and act respectively in future planning
- understand the behavioral implications of the budgeting process
- use Balanced Scorecard as a planning tool
- set targets for an organization using financial ratios and key performance indicators (KPI)
-

R0354 Cost Accounting, 5 cr

The student is able to:

The student is able to

- calculate the cost of a product or service using different cost accounting techniques
- use marginal costing and absorption costing in calculating the cost of a product or service
- use cost accounting information in pricing and decision making
- use activity-based costing to analyze customer profitability

R0355 Capital Budgeting, 5 cr

The student is able to:

The student is able to:

- 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 computer software in capital budgeting

R064 EXPERT OF FINANCING, 15 cr

Description:

The module focuses on financing activities. After completing the module, the student will understand how the financing markets function and be able to act in the financial sector's tasks globally. The student will learn about the background and impact of current phenomena. The students will acquire in-depth knowledge on the financing processes used by organisations and be able to develop these. The student will be able to act in versatile expert positions in the finance sector. The student will understand financing processes from the perspective of the company and the banking sector.

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: Esa Aula

Tikkurila: not in the current offering

R0389 Financial and Securities Markets, 5 cr

The student is able to:

The student is able

- to use various investment instruments
- to compare market information from various sources and the interests of its different parties
- to identify different types of investment strategies
- to determine the price of securities
- to explain the connection between the securities' profit and risk
- to use derivative in investment activities
- to explain the effects of market psychology

R0346 Investment Activities in Practice, 5 cr**The student is able to:**

The student is able

- to act on the basis of a chosen investment strategy by managing his/her own portfolio
- to invest also in alternative investment products
- to identify the errors investors make and their behaviour in the markets

R0347 Current Phenomena in the Financial Sector, 5 cr**The student is able to:**

The student is able to

- apply insights about the sector's newest trends into different areas of use
- to analyse (or theorise) the backgrounds and impacts of current phenomena
- to draw up a research plan in the finance sector

R0348 Investment and Finance Literature, 5 cr**The student is able to:**

The student is able

- to write about the financial sector and its changes
- to critically process the events taking place in the financial sector and investment market

R067 MANAGEMENT INFORMATION SYSTEMS, 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

R0357 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

R0359 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

A912 RISK MANAGEMENT, 15 cr

Description:

This module deals with the content of planning, development and management of corporate security and safety, business continuity and environmental safety management as part of risk management process.

After completing the module the student will be able to define the content of security and safety management, business continuity planning, environmental safety management and risk management according the needs of the organisation and the customer value chain. He/she can apply requirements set by legislation, directives and guidelines related to security and safety and business continuity planning, environmental safety management and risk management. The student is able to apply enterprise risk management methods to identify, evaluate and manage risks. He can plan, develop and evaluate security and safety management, business continuity planning and environmental safety management as part of risk management process. Furthermore, he/she is able to analyse and develop security and safety culture as part of organizational culture.

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: Soili Martikainen

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.

A9491 Business Continuity Planning, 5 cr

The student is able to:

The student is able to:

- apply requirements set by legislation, directives and guidelines regarding business continuity and supply chain security
- identify critical business operations and their needs for BCP through the customer value chain
- apply risk management methods to identify, evaluate and manage operative business continuity and supply chain risks through the customer value chain
- create and develop operational models, plans and guidelines for business continuity management and supply chain 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.

A9492 Environmental Safety Management, 5 cr

The student is able to:

The student is able to

- apply requirements set by legislation, directives and guidelines regarding environmental safety management
- apply a variety of methods to identify and evaluate environmental impact
- create and develop operational models, plans and guidelines for environmental safety management

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.

A916 CORPORATE SECURITY AND SAFETY OPERATIONS, 15 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:

Leppävaara: Kaci Bourdache

A9500 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
- develop safety and security know-how and culture in an organization

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.

A9501 Physical Security, 5 cr**The student is able to:**

The 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

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.

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.

A9516 Museum Security, 5 cr**A914 SECURITY IN OPEN SOCIETY, 15 cr****Description:**

Module deals with security threats in open society in a global context and tries to find solutions to them.

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: Lasse Kivinen

A9502 Internal Security, 10 cr**The student is able to:**

The student is able to:

- describe Internal Security in an open society
- analyze the Internal Security environment
- analyze issues affecting (strengthening or weakening) Internal Security in an open Society
- identify the main governmental organisations, their roles and responsibilities in Internal Security
- describe the national management structure in issues concerning societies internal security
- analyze the cooperation between different organisations and societal sectors in Internal Security
- refer to the main national legislation and documentation concerning Internal Security
- refer to the main EU-level documentation affecting the national internal security
- apply the key elements of domestic security and local security planning

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.

A9503 Crime Prevention, 5 cr**The student is able to:**

The student is able to

- explain the basics of Criminology and Crime Prevention
- use different risk-evaluation analysis tools in order to identify and assess crimes threats
- cooperate within an organization and with external stakeholders in crime prevention
- apply the basics of planning and execute Crime Prevention improvement methods

- refer to Crime theories, Criminological knowledge and strategies of crime prevention in the development of personal and communal security
- tell about the latest technology in Crime Prevention

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.

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.

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](https://www.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

R054 THE USER EXPERIENCE OF WORKPLACE, 15 cr

Description:

The student will get a general picture of planning processes and managing working environment. The student will identify physical, social and virtual factors, which impact to the user experience of different spatial solutions and spatial networks.

After completing the module, the student will be able to apply 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.

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: Kaisa Airo

R0310 New Ways of Working, 10 cr

The student is able to:

The student is able to

- identify the user needs when planning and designing work stations and facilities
- design a workplace concept, which is effective for the company and satisfying for the user
- conduct acquisitions of work stations and facilities together with the customer and end-user
- act in a change process

R0311 Environmental Psychology , 5 cr

The student is able to:

The student is able to:

- identify the social, physical and virtual characteristics of space and their influence on user
- design usable spaces from the perspective of different stakeholders
- apply the principals of environmental psychology in space concepting and spatial design

R055 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.

Alongside in this module student gets introduced to various smart city applications as well as their ability to develop new areas and facilities. Student is able to apply the principals of regional development to the business and organizational activities.

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: Kaisa Airo

R0312 Regions and Innovations, 10 cr

The student is able to:

The student is able to

- observe the differences between regions economically
- identify the interesting location of real estate on map
- identify the usability of traffic arrangements
- apply the principals of regional development
- develop Smart City -concepts

R0313 Real Estate Management, 5 cr

The student is able to:

The student is able to

- identify the key factors in property value.
- identify certification systems and model their impact on CREM
- apply attributes of sustainability in real-estate management

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 Resetjänster 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

R0172 As a Bachelor of Hospitality Management Now and in the Future, 5 cr

The student is able to:

The student is able to

- describe the business industry in the hospitality field
- discuss and evaluate knowledge of the bachelor of hospitality management in the future
- after studying the study unit student is able to focus his/her specialization area

A820 INNOVATING FOOD SERVICES, 30 cr

Description:

The objective of the module is to develop competencies to innovate food services.

After completing the module, the student will be able to develop food services in a multisensory and customer-oriented manner while taking into account current trends. The student will be able to understand the risks related to food in food production services. He/she will be able to apply sensory evaluation methods in developing food products.

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:

Leppävara: Henry Lybäck

A9219 Current Issues and Future Trends in Hospitality Field, 5 cr

The student is able to:

The student is able to:

- develop his/her current skills and competences with respect to Hospitality Management
- apply current issues and future trends when organizing and developing services

A9220 Developing Food Services into an Experience , 10 cr

The student is able to:

The student is able to

- recognize the importance of customer experience and trends in developing food services towards a peak experience
- plan, implement, analyze and develop food services and concepts responsibly for different customer segments
- implement a development process while taking quality criteria into consideration

A9221 Food and Beverages , 5 cr

The student is able to:

The student is able to:

- introduce the food cultures of Finland and other countries
- recognize different kinds of food habits and their background
- plan and choose proper food and drink assortments for different kinds of events and purposes
- act responsibly in food and drink service processes

A9222 Food for Health , 5 cr

The student is able to:

The student is able to:

- recognize the risks related to food and food services
- evaluate the newest food trends
- implement and develop a healthy and safe food production process in a customer-oriented manner

A9223 Developing Sensory Quality of Food Services , 5 cr

The student is able to:

The student is able to:

- compare food products and portions from the viewpoint of sensory characteristics
- apply sensory evaluation methods in developing the attributes of a food product and portion
- develop multisensory food services

A9400 Food event production, 5 cr

The student is able to:

The student is able to

- to develop and implement food services and service processes as part of a food event?
- to develop a food product through product development
- to develop the knowledge about organizing food events
- to develop customer experience as part of a food event

Contents of the study unit:

- Service Design methods
- product testing
- customer experience and feedback
- using social media as a part of food event and learning
- learning diary

Previous studies:

Laatu ravitsemuspalveluissa

R0382 Food and Food Services Safety , 5 cr**The student is able to:**

The student is able to:

- apply knowledge of legislation related to food and food services
- describe the effects of microbiological, chemical and other risks related to food production
- amend corrective actions to company's quality control system and processes

Previous studies:

Previous studies: A9467 Quality in foodservices and A9146 Developing Service Systems -courses or equivalent competences.

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)

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

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

R058 MOBILE APPLICATION DEVELOPMENT, 15 cr

Description:

During this module, the student will learn design principles, technologies and tools needed for designing and developing mobile applications.

After completing this module, the student will be able to describe and apply key design and development frameworks for different mobile platforms. The student will be able to install and configure a development environment for a chosen mobile platform. S/he will be able to plan the design and implementation process of mobile applications.

Responsible persons:

Not known; the module is not offered yet

R0334 Introduction to Mobile App Design and Development, 5 cr

The student is able to:

The student is able to

- differentiate the app ecosystem and their pros and cons
- be able to describe the key technologies to develop applications for the major mobile platforms
- identify and apply a systematic approach for mobile app design
- implement app ideas with design principles: user experience (UX), user-centered design and mobile constraints
- work in a team to generate mobile app wireframe and paper prototype
- configure and use a development environment for a chosen mobile platform
- develop a simple mobile application prototype

R0316 Native Mobile Application Development, 5 cr

The student is able to:

The student is able to

- set up and use a development environment for Android
- understand the application structure
- design and implement user interfaces for mobile devices
- store data using local files and databases
- create responsive user interfaces that work across a variety of screen sizes
- utilize services provided by devices (Location data, camera etc.)
- build, test and deploy apps on Android devices

R0335 Building and Deploying Cross Platform Mobile Apps, 5 cr

The student is able to:

The student is able to

- plan and document the complete development process of a mobile application
- apply appropriate methods and technologies to build and deploy cross platform mobile apps
- apply collaborative development with online tools (Github) and version control
- differentiate production and maintenance process of Web and Mobile apps
- learn and describe monetizing with mobile and web apps

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

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

R0318 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

R0319 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

R0320 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

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

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

R0385 Internet Infrastructure and Security, 5 cr

The student is able to:

The student is able to

- describe the operations and protocols in global IP networks
- calculate IP subnets and supernets
- describe security vulnerabilities in IP network infrastructure
- compare and contrast IPv6 to IPv4
- describe the functional concepts and security risks in wireless networking

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.

R0386 Contemporary Issues in Networking and Network Security, 5 cr

The student is able to:

The student is able to

- study independently and in groups in a networks and security assignments
- present the results professionally in seminar meetings

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

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

R060 CYBERSECURITY TECHNOLOGIES, 30 cr

Description:

The objective of the module is to learn and apply cybersecurity tools and techniques.

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, threats and risks within organizations' information networks and cyberspace. The students can acquire knowledge and skills of cybersecurity technologies and current practices.

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

R0321 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 a cybersecurity project
- plan, implement, document and present a cybersecurity project

R0322 Systems Security, 5 cr

The student is able to:

The student is able to

- plan and apply the concepts of risk assessment, risk analysis and risk management
- apply a comprehensive and rigorous method for organisation's asset security
- identify threats, vulnerabilities and risks associated with organisation's systems
- protect and control information processing assets in centralized and distributed environments
- apply the Systems Development Life Cycle (SDLC) to security controls
- protect and control workstation and server environments

R0323 Enterprise Applications Security, 5 cr

The student is able to:

The student is able to

- protect information systems against malware and social engineering
- dissect and control sniffing, hijacking and denial-of-service (DoS) attacks
- identify threats, vulnerabilities and risks associated with web applications and web servers
- protect and control web applications and web servers
- defend against SQL-injections and buffer overflow challenges

R0324 Network Security, 5 cr

The student is able to:

The student is able to

- plan and perform penetration testing
- apply covert techniques to scan and attack a network
- assess and prevent security gaps in a network infrastructure
- implement security controls to network security
- identify and apply tools and techniques used to evade IDS, firewalls, and honeypots

R0325 Cybersecurity in Emerging Environments, 5 cr

The student is able to:

The student is able to

- recognize current cybersecurity trends in emerging environments
- identify and analyze the opportunities and challenges of current cybersecurity tools and techniques
- plan, implement, document and present reasonable solutions for emerging cybersecurity challenge
- apply project management practices and techniques in selected cybersecurity topic

R0326 Cybersecurity Applied Project, 5 cr

The student is able to:

The student is able to

- identify and analyze the opportunities and challenges of current cybersecurity practices
- plan, implement, document and present reasonable solutions for cybersecurity challenges
- apply project management practices and techniques in selected cybersecurity topic

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 applied 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, brain scans, 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.