

Degree Programme in Business Information Technology

Lahti University of Applied Sciences
Faculty of Business Studies

Degree

Tradenomi, Bachelor of Business Administration (BBA)

Duration

210 ects, 3.5 years

The studies are focusing to developing experts with generic working life competencies as well as programme based competences, that are needed to manage versatile demanding tasks in the future business life. Generic competences are communication and co-operation skills, abstract, analytical and critical thinking, research and development skills, entrepreneurial thinking, learning skills and self-efficacy as well as ethical responsibility. Programme based competencies are business competence, business application software competence, information system knowledge, ICT-infrastructure competence as well as ICT-project competence and special knowledge in ones own expertise area.

Objectives

The programme aims at providing the students with the knowledge and skills needed in the modern Intranet and Internet technologies in business. The programme provides qualifications to design, implement and manage information systems. In the development of information systems, the focus is on systems management and design by using modern application development methods and tools. The programme places a high priority on meeting the needs of software development and management in a networked business environment. Special focus is placed on graphical software and user interface design and also on the use of object and component technologies.

The programme provides an excellent opportunity to work as an information systems analyst for the software industry in Finland and abroad. In addition to the theoretical studies of information science, the programme also includes practical training in business. After two years of classroom studies the students work for five months as trainees in industry. The students also complete a software design and implementation project for a local organisation.

DEGREE PROGRAMME IN BUSINESS INFORMATION TECHNOLOGY

Studies	Year				
	1	2	3	4	Σ
BASIC STUDIES					64
Common Basic Studies					14
01PSUO Suomen kieli ja viestintä, 1) Basics of Finnish	4				4
01PRUO Ruotsin kieli (Swedish) 1)Basics of Finnish	3				3
01PENG English	3				3
01PENT Entrepreneurship		4			4
Programme Basic Studies					50
04BUS601 Learning Process	1				1
Business Process					26
04BUS602/1 Innovations, Teamwork and Projects	4				
04BUS602/2 Human Resources			4		
04BUS602/3 Financial Management	4				
04BUS602/4 Customer Relations and Marketing	4				
04BUS602/5 Logistics			4		
04BUS602/6 Operational Business Environments/ Basics of Economics	3				
04BUS602/7 Operational Business Environments/ Legal Environment		3			
Operational Tools					10
04BUS603/1 Texts, spreadsheets and presentation graphics	6				
04BUS603/2 Business and Financial Mathematics	4				
Communication					13
04LII604/1 Yritysviestintä (Finnish), 2) Finnish for Foreigners		4			
04ENG04 IT English	3				
04ENG12 Advanced Communication Skills		3			
04ENG02 Business Contacts (English)		3			
PROFESSIONAL STUDIES					86
Common Professional Studies					56
04IT601/1E Introduction to Programming	5				
04IT601/2E Object Oriented Analysis		4			
04IT602/1E Systems Analysis and Design	5				
04IT602/2E User Interface Design	4				
04IT603/1E WWW-Document Preparation	3				
04IT603/2E Multimedia	3				
04IT603/3E Introduction to XML	3				
04IT604/1E Introduction to Databases	3				
04IT605/1E IT Mathematics	3				
04IT606/1E Information Security	3				
04TUT600E Orientation to Research		5	5		10
04IT607/1E Project					10
Advanced Professional Options; 30 ects to be chosen					30
04IT610E Systems Analysis and Design					
04IT611E Application Implementation					
04IT612E Information Systems Management					
04IT613E eBusiness					
ELECTIVE STUDIES					15
PRACTICAL TRAINING					30
THESIS				15	15
TOTAL	210 ECTS				

COMMON BASIC STUDIES 14 ECTS

The polytechnic common basic studies form a basis on which all professional and optional studies are constructed. They aim at offering the students a common ground in their studies and at preparing them for working life and self-development.

The polytechnic common basic studies orientate the students towards other studies which concentrate on specialised professional skills. Common basic studies, 14 ects, consist of courses which are compulsory to all native Finnish students. Any course within the common basic studies can be compensated by an equivalent course with entirely or partially same content taken in another polytechnic or in a university. Before compensation a proof for taking the course elsewhere must be submitted.

01PSUO SUOMEN KIELI JA VIESTINTÄ 3 OP 01PINFO INFORMAATIOLUKUTAITO 10P

Toteutetaan Lahden ammattikorkeakoulun yleisen suunnitelman mukaisesti.

¹⁾ Foreign students: substitutive courses are Survival Finnish, Finnish Basic I and Finnish Basic II (page 8)

VIERAS KIELI JA VIESTINTÄ 3 OP (01PENG)

Learning objectives

The student

- knows the necessary basic business vocabulary
- can manage in written and oral communication situations needed in professional studies and at work
- masters the main grammatical structures in the context of everyday business functions
- understands the basics of business English including the terminology and concepts

Contents

- education and training for business
- jobs and employment, changes in working life, the job application process
- the route from raw materials to commodities
- entrepreneurship, various types of establishment, company profiles
- wholesaling and retailing
- international trade

Prerequisites

Advanced level in English

Assessment

Course work and exam, portfolio, compulsory class attendance.

Materials

Airas, P. & Junkkari, T. 1998. New Business Friend 1. WSOY, Porvoo

01PRUO RUOTSIN KIELI 3 OP

Toteutetaan Lahden ammattikorkeakoulun yleisen suunnitelman mukaisesti.

¹⁾ Foreign students: substitutive courses are Survival Finnish, Finnish Basic I and Finnish Basic II (page 8)

01ENTR1 INTRODUCTION TO ENTREPRENEURSHIP 4 ECTS

Target group

The students of the Degree programme in International Business in their first year.

Objective and contents

The students get acquainted with entrepreneurship as an option to wage work and as a life strategy. The course gives facilities to plan and evaluate business ideas. The student gets to reflect on his/her personal capabilities for running a business, but also on general conditions and obstacles in business life. The course deals with basic concepts of entrepreneurship, business plan and business idea.

Assessment

Active participation in lectures. Individual and group exercises, business plan, written exam.

Materials

Will be handed during lectures.

PROGRAMME BASIC STUDIES 50 ECTS

04BUS601 LEARNING PROCESS 1 ECTS

Learning objectives

The student gets acquainted with different learning methods, which are to be used in different implementations during the studies.

Contents

Learning styles, assessment of own learning, getting acquainted with different problem centered learning methods, project learning, case method, Problem Based Learning

Assessment

Contact lessons, learning assignments, Information skills test

Materials

Materials to be given and announced during the lessons

Business Process 26 ects

04BUS602/1 INNOVATIONS, TEAMWORK AND PROJECTS 4 ECTS

Learning objectives

The student

- learns to work in teams. The student knows how to operate as a team member or as a team leader
- obtains the basic skills to work within a project team and also to manage a project.
- knows the basic methods of innovative thinking and knows how to apply them
- understands how to create innovative working culture within organizations

Contents

- Theory and practice of team work
- Participation into a project and project management
- Innovative thinking and acting
- Encouraging innovations

Assessment

Participation to contact lessons and learning assignments

Materials

Materials to be given and announced during the lessons

04BUS602/2 HUMAN RESOURCES 4 ECTS

Learning objectives

The aim of the course is to provide the participants with necessary skills for managing and maintaining a performance based human resources in contemporary multicultural and multinational organizations.

Contents

Main attention will be paid onto the following issues: Strategic HR planning, recruitment, selection, orientation, training & development, career planning, job design, motivation, wage administration, rewards & benefits, employee relationship, collective bargaining, dispute resolution, disciplinary measures, building performance based HR, international issues in HRM

Assessment

Active participation to the course, course paper and test

Materials

De Cenzo & Robbins 2002. Human Resource Management. John Wiley & Sons, Inc, New York.

04BUS602/3 FINANCIAL MANAGEMEN 4 ECTS

Learning objectives

The student

- understands financial information and financial management as part of corporate operations
- gets to know the different areas of accounting
- is able to examine the profitability of companies using marginal costing–technique
- learns how to set prices to products and produce budgets
- acquires the skills to use calculations in decision making

Contents

- financial management as part of corporate operations
- cost concepts

- break-even analysis
- financial ratios
- marginal costing
- pricing decisions
- budgeting

Assessment

Individual assignment, written exam

Materials

Learning package

04BUS602/4 CUSTOMER RELATIONS AND MARKETING 4 ECTS

Learning objectives

The student understands the value of customer oriented thinking in corporations, knows the basic concepts and tools of marketing and is able to pursue them in a business context.

Contents

Customer oriented approach in business

Marketing environments

Customer relationship marketing

Consumer behaviour and purchasing process

Marketing mix: product, price, place, promotion.

Assessment

Contact lectures, exam, course work

Materials

Kotler, P, Armstrong, G. 2004. Principles of Marketing.

04BUS602/5 LOGISTICS 4 ECTS

Learning objectives

The student

- knows the role of the logistics operations in a company
- understands the importance and opportunities of logistics from the point of view of a company's operational and financial returns
- knows how to use the most common tools of logistics planning and management: forecasting, inventory turn-over, ABC-analysis, optimising the size of delivery
- knows the stages of a purchasing process
- understands the terms of delivery as an important part of the purchasing contract

Contents

- logistics activities
- methods of planning and controlling
- purchasing process
- terms of delivery

Assessment

- lessons, course work, open book test

Materials

- learning package

04BUS602/6 OPERATIONAL BUSINESS ENVIRONMENTS/ BASICS OF ECONOMICS 3 ECTS

Learning objectives

Student

- understands that "everything depends on everything" in the economy
- is familiar with the basic concepts of consumer and producer theory
- understands how the market mechanism functions
- understands the basic nature of economic fluctuations
- knows the basic reasons and consequences of unemployment and inflation
- understands the basic idea of economic policy

Contents

Basic concepts (of micro and macro economics)

Different competition models

Circulation model

Unemployment and inflation

Economic fluctuations in Finland

Basic ideas of fiscal – monetary policy

Assessment

Lectures, learning diary, exam

Materials

Sloman, J. 2004, Essentials of Economics. Pearson Education. England

04BUS602/7 OPERATIONAL BUSINESS ENVIRONMENTS/ LEGAL ENVIRONMENT 3 ECTS

Learning objectives

The student learns

- how the Finnish legal order operates and what does it consist
- to see, how the law of business operations works with regard drafting, interpreting and supplementing contracts.
- the breaches of contract and available remedies
- how to act on contractual issues and how to solve interpretational and other cases
- the way to be an active company representative who acts correctly in practical contract law situations.

Contents

The contents of the course are the basics of the Finnish legal order, basics of legal proceedings and the Finnish contract law.

Assessment

Lectures, group tasks, cases, exam

Course grading will be based on the exam. Receiving 50% of the exam points will be the minimum for passing the course. Excellent questions/case session activity will affect exam grading positively. Excellent activity means doing all the questions/cases in advance and being active when the questions/cases are being processed together with the entire class.

Materials

Lectures and assignments form the main study Materials. As supporting Materials: Surakka, Aapo: Access to Finnish Law, latest edition, pages 1-72.

Operational Tools 10 ects

04BUS603/1 TEXTS, SPREADSHEETS, PRESENTATION GRAPHICS 6 ECTS

Learning objectives

The student

- knows how to use business applications software in common business situations.

Contents

The course deals with the basic techniques of word-processing programs, document and presentation material production, spreadsheet calculation and how to use them in most common business situations.

Assessment

Participation in contact teaching, exercises and exam

04BUS603/2 BUSINESS AND FINANCIAL MATHEMATICS 4 ECTS

Learning objectives

The student

- knows how to use the most common tools of business mathematics in business life
- understand the importance of the financial mathematics

Contents

The course deals with percentage and interest calculations with their applications, index numbers, foreign currencies, compound interest, periodic payments, credits and loans, pricing and securities.

The examples and exercises are linked to business life.

Assessment

Participation in contact teaching, exercises and exam.

Materials

Pulkkinen, P., Holopainen M. & Keinänen K. 2001. Business Mathematics. 2.edition. CS Care & Share

Communication 13 ects

04LII604/1 YRITYSVIESTINTÄ 4 OP

Osaamistavoitteet

Opiskelija

- ymmärtää viestinnän merkityksen liiketoiminnassa tuloksenteon välineenä sekä viestinnän ja organisaatorakenteen yhteyden
- osaa toteuttaa yrityksen sisäistä viestintää ja valita viestintään tarkoituksenmukaiset keinot ja kanavat
- pystyy kirjoittamaan yrityksen kaupalliset viestit ja tiedotteet ja rakentamaan teksteillään myönteistä yrityskuvaa
- hahmottaa rekrytointiprosessin työnantajan näkökulmasta ja osaa markkinoida itseään rekrytointitilanteessa
- harjoittaa työelämän keskeisiä esiintymistaitoja
- mieltää kielen hallitsemisen työnteon välineenä ja onnistuneen viestinnän edellytyksenä

Sisältö

Yritysviestinnän periaatteet ja tehtävät, yritysviestintä maineenhallinnan osana, sisäisen viestinnän merkitys, keinot ja kanavat, kaupankäynnin tekstit ja tiedotteet sekä yrityksen rekrytointiin liittyvä viestintä.

Edeltävät opinnot

01PSUO Suomen kieli ja viestintä 4 op

Suoritustapa ja arviointi

Henkilökohtainen portfolio ja ryhmätehtävät, tentti

Opiskelumateriaali

Kortetjärvi-Nurmi, S., Kuronen, M.-L. & Ollikainen, M. 2002. Yrityksen viestintä. 3., uud.p. Edita, Helsinki. Kurssilla annettava materiaali.

Foreign languages

04ENG02 Business Contacts 3 ects

04ENG04 IT English 3 ects

04ENG12 Advanced Communication Skills 3 ects

for the descriptions, see the file Language Studies at Faculty of Business Studies 2008-09

Finnish Language for Foreign Students from 2008-09 on

04SUO801E BASICS ON FINNISH 1, 4 ECTS

Learning Objectives

The student will learn

- the very basic vocabulary and phrases for common everyday situations
- to speak a little about him/herself and understand the basic phrases
- to read and write short and simple sentences

Contents

Personal data, family and living, languages, countries, nationalities, greetings, thanking, asking, basic situations in everyday life, cardinal numbers, money and units of measure, time and calendar, seasons and weather. Basic types of nouns, verb types, present tense of the verbs (positive, negative, question), basics of consonant gradation (strong-weak grade), vowel harmony, basic pronouns, cardinal numbers, imperative and conditional in basic phrases.

Assessment

Attendance and activity of the course, portfolio and the passing of the final exam.

Evaluation: 1-5.

Materials

White, L. 2007. From Start to Finnish. A Short Course in Finnish. Helsinki: Finn Lectura.

Teacher's material.

04SUO802E BASICS ON FINNISH 2, 5 ECTS

Learning Objectives

The student will learn

- to communicate in most common everyday situations
- to understand slowly and clearly spoken Finnish provided the topic and the vocabulary are connected with his/her own life and experience
- to understand the key idea of a simple message or text and to write one him/herself
- to know the most common vocabulary and some grammatical structures of Finnish

Contents

Spending free time, the most common occupations and workplaces, food and drinks, traffic and traveling, communication in everyday situations, health, sickness, dressing-up, basic adjectives and adverbs, 50 basic verbs, partitive, genitive, nominative plural and local cases in different word types, possessive sentences, essive in time expressions, present tense of passive and object in practice.

Assessment

Attendance and activity of the course, portfolio and the passing of the final exam.

Evaluation: 1-5.

Materials

White, L. 2007. From Start to Finnish. A Short Course in Finnish. Helsinki: Finn Lectura.
Teacher's material.

04SUO803E FINNISH FOR FOREIGNERS 1, 4 ECTS**Learning Objectives**

The student will learn

- the basics to cope in situations connected with his/her own field of profession
- to know the most common vocabulary and phrases used in social intercourse (informal discussion, telephone conversation etc.)
- the basics of studying and working in Finland

Contents

The Finnish understanding of time and vocabulary related to it, Finnish culture of studying and forms of studying, meaning of co-operation in studying, getting to know Finnish occupations and their requirements, work culture in Finland, telling about oneself's skills (basic skills), describing oneself's own preserve, everyday situations and vocabulary related to that, basic phrases and vocabulary to social communication. Deepening the word types and verb types in different local cases (basic verbs). Asking, advising, describing, understanding the instructions (conditional and imperative). Past tense by few basic verbs.

Assessment

Attendance and activity of the course, portfolio and the passing of the final exam.

Evaluation: 1-5.

Materials

White, L. 2007. From Start to Finnish. A Short Course in Finnish. Helsinki: Finn Lectura.
Teacher's material.

PROFESSIONAL STUDIES 86 ECTS**Common Professional Studies 56 ects****04IT601/1E INTRODUCTION TO PROGRAMMING 5 ETCS****Learning objectives**

The student has basic skills in commercial programming. The software tool used is a high level programming language or macro language. The main emphasis is on the logical analysis of programs.

Contents

- basics of program
- variables and constants
- program flow and structure
- basics of object oriented programming
- functions and subroutines
- processing files
- processing arrays
- basic algorithms
- programming language syntax
- coding and testing

Assessment

Course work, individual assignments and exam

Materials

Learning package, a textbook indicated by the lecturer.

04IT601/2E OBJECT-ORIENTED ANALYSIS 4 ECTS**Learning objectives**

The student will learn the object-oriented approach in practice. The course give the basic knowledge how to analyse and construct complex software structures.

Contents

- object structure
- object concepts
- associations and aggregates
- abstract class
- analysis and design

Prerequisites

Introduction to Programming, Information Systems Analysis and Design, Object-oriented Programming

Assessment

Distance tasks, exam

Materials**04IT602/1E SYSTEMS ANALYSIS AND DESIGN 5 ECTS****Learning objectives**

The student is familiarised with the importance of information systems in a company's business operations and knows the phasing of building information systems. He/She learns the analysis and design of an information system and knows about database design.

Assessment

Course work and exam

Materials

Literature indicated by the lecturer

04IT602/2E USER INTERFACE DESIGN 4 ECTS**Learning objectives**

The student is able to design a user interface for a visual environment and to estimate its usability.

Assessment

Course work and exam

04IT603/1E WWW-DOCUMENT PREPARATION 3 ECTS**Learning objectives**

The student

- knows the basic structures of WWW-documents
- can use the essential commands of XHTML markup language
- knows how to style XHTML documents using CSS

Contents

XHTML markup language, CSS stylesheet language

Assessment

Assignments and exam

Materials

Indicated by the lecturer

04IT603/2E MULTIMEDIA 3 ECTS**Learning objectives**

The student

- knows the basic concepts of multimedia
- knows how to digitalize and edit voice and video data
- knows the basic concepts of animation and handles many different animation techniques

Contents

Concepts, multimedia tools and applications

Producing and editing multimedia data

Prerequisites

Basics of image editing

Assesment

Lectures, assignments, exam

Materials

Software: PowerPoint, Sound Forge, ImageReady, Director, Premiere, Flash
 Other material indicated by the lecturer

04IT603/3E INTRODUCTION TO XML 3 ECTS**Learning objectives**

The student

- understands the basics of using XML technology
- manages the syntax of XML markup language
- can create well-formed and valid XML documents
- is able to design and implement XML structures using DTD and XML Schema
- knows how to style XML documents using CSS
- is able to implement XSL transformations

Contents

XML syntax, DTD, XML Schema, XSLT, XPath

Prerequisites

04IT603/1 WWW-Document Preparation

Assessment

Assignments, course work and exam

Materials

Indicated by the lecturer

04IT604/1E INTRODUCTION TO DATABASES 3 ECTS**Learning objectives**

The student

- understands the basic concepts of databases in general and especially relation databases
- knows the basics of SQL and can create simple queries by it
- Handles the basic administration tasks of database management system

Contents

Databases, SQL

Assessment

Lectures, assignments and exam

Materials

Indicated by the lecturer

04IT605/1E IT MATHEMATICS 3 ECTS**Learning objectives**

The student

- understands the logical basics of computers' architecture and programming
- can operate with propositional calculus
- can apply propositional calculus to programming
- knows the basic set operations
- understands the relationship between relational databases and set theory
- can perform number system conversions
- knows the main methods for storing digital information.

Contents

Propositional calculus, set theory, number systems, methods for storing digital information

Assessment

Assignments and exam

Materials

Indicated by the lecturer

04IT606/1E INFORMATION SECURITY 3 ECTS**Learning objectives**

The student

- knows the domains of information systems security management
- knows the basics of cryptography and its applications
- gets an overall understanding and practical knowledge of information security issues.

Contents

Domains of information systems security management, cryptography and its applications

Assessment

Assignments and exam

Materials

Krutz, R. L. & Vines, R. D. 2001. The CISSP Prep Guide: Mastering the Ten Domains of Computer Security. John Wiley & Sons, New York.

04TUT600E Orientation to Research 10 ects**04TUT601E ANALYSIS METHODS 5 ECTS****Learning objectives**

The student

- knows the principles of the scientific research, approach and the most commonly used research methods in social science
- knows the operational plan of the research work
- learns to estimate the applicability of the research method
- learns to estimate the reliability of the information
- knows how to deal with the most commonly used statistical methods
- learns to understand the content of the research report

Contents

Main attention will be paid onto the following issues: Quantitative and qualitative methods in general, the research problem and the applicability of the research methods, overall reliability, data analysis, interpretation and generalisation. The student is able to conduct independent empirical research.

Prerequisites

Texts, spreadsheets and presentation graphics

Assesment

Participation in contact teaching, individual and group works, assignments and/or exam

Scale 1 - 5.

Materials

Lectures and literature indicated by the lecturer

Quantitative methods and reporting 04TUT602E and Qualitative methods and reporting 04TUT603E are elective modules and they take place during the third academic year. Student has to choose one of the following modules.

04TUT602E QUANTITATIVE METHODS AND REPORTING 5 ECTS**Learning objectives**

The student

- knows how to process and report the Quantitative data definitively
- learns to use SPSS software as an analysis tool
- learns the descriptive statistics
- learns the inferential statistics
- learns the multivariate methods
- understand the research problem and is able to choose the right methods to analyse data
- is able to conduct a demanding quantitative research
- has basic skills in academic writing
- knows how to write abstract for a study

Contents

SPSS software as an analysis tool. Creating a database in SPSS. Frequency distributions, descriptive statistics and graphical presentations. Relationships between two variables. Hypothesis testing. Multivariate methods. . Academic writing skills.

Prerequisites

04TUT601E Analysis Methods

Assesment

Participation in contact teaching, individual and group works, projects and reporting

Scale 1 - 5.

Materials

Lectures and literature indicated by the lecturer

04TUT603E QUALITATIVE METHODS IN MANAGEMENT RESEARCH AND REPORTING 5 ECTS**Learning objectives**

The student

- will understand paradigm and the methodology behind qualitative research methods
- will be able to produce a research plan for a qualitative study
- will be able to evaluate reliability and validity of qualitative research
- has basic skills in academic writing
- qualitative methods for data collection and analysis
- knows how to write abstract for a study

Contents

Qualitative research and the paradigm behind it. Different methods to conduct a qualitative research. Research plan for a qualitative study. Methods for data collection and analysis. Academic writing skills. Lectures and research project.

Prerequisites

04TUT601E Analysis Methods

Assessment

Research project and exam

Materials

Lectures

Gummesson Evert, Qualitative methods in Management Research, 2000, Sage Publications, Inc.

04IT607/1E PROJECT 10 ECTS

To be completed during 3rd and 4th year

Advanced Professional Options, 30 ects to be chosen

Lukuvuonna 2008-09 toteutettavat modulit tai niiden osat:

04IT610E Systems Analysis and Design, 15 ects**04IT610/1E DATA BASES AND DESIGN 3 ECTS****Learning objectives**

The student is able to use ER-modeling technique in designing relational databases, and can normalise database tables. He/She also understands the most essential efficiency aspects concerning relational databases.

Contents

- ER-modeling
- normal forms
- efficiency aspects

Assessment

Assignments and exam

Materials

Literature indicated by the lecturer

04IT610/2E ADVANCED MODELLING OF INFORMATION SYSTEMS DESIGN 3 ECTS**Learning objectives**

The student is familiarised with the architecture design of information systems. He/She learns to participate in system design and implementation using agile development methods in practise.

Contents

- information systems architecture
- agile systems development methods

Assessment

Course work and exam

Materials

Literature indicated by the lecturer

04IT611E Application Implementation, 15 ects

04IT611/1E INTRODUCTION TO OBJECT ORIENTED PROGRAMMING 4 ECTS

Learning objectives

The student knows the basic concepts of object oriented programming and has the skills to write programs using one object oriented language.

Contents

- Syntax of the selected programming language
- Object classes and objects
- Inheritance

Prerequisites

04IT601/1E Introduction to Programming

Assessment

Course work, assignments and exam

Materials

Horstmann, Cay S.: Core Java, Vol. 1, Fundamentals, 8th ed. (Sun Microsystems) ISBN: 9780132354769 and the material indicated by the lecturer.

04IT611/2E GRAPHICAL APPLICATION DEVELOPMENT 5 ECTS

Learning objectives

The student has the appropriate skills and knowledge to develop applications using a high level graphical application development tool.

Contents

- Graphical User Interface
- Object Oriented Programming with GUI Object Classes
- Processing Data Bases

Assessment

Assignments and exam

Materials

Tools: MS.Studio

04IT611/3E SOFTWARE TESTING 3 ECTS

Learning objectives

The course aims at giving an overview to software testing as a necessary part of software development.

Contents

- software life cycles
- testing techniques and standards
- testing tools

Assessment

Assignments and exam

Materials

04IT612E Information SystemsManagement 15 ECTS

04IT612/1E ICT-INVESTEMENTS AND CONTRACTS 3 ECTS

Learning objectives

The aim of the course is to familiarize the students with the ICT-investments (procurements) in theory, how to remain competitive in the turbulent business environment and give the students a basic overview of the contracts related to IT-investments. The purpose of this course is to give an overview of ICT-procurements both on a strategic level and a practical approach.

Contents

- business organization, environment and ICT investments
- ICT contracts
- ICT productivity

Assessment

Course exam, independent work

Materials

Materials will be announced later

04IT612/2E DATA ADMINISTRATION STRATEGY 3 ECTS**Learning objectives**

The aim of the course is to give an overview of the practical and strategic work of data administration

Contents

- ICT governance
- ICT management
- ICT infrastructure

Assessment

Course exam, independent work

Materials

Barbara C. McNurlin, Ralph H. Sprague, Jr, Information Systems Management In Practice, 5th edition, Prentice Hall, 2004 or later

04IT612/3E ICT-INVESTMENTS AND COST-EFFECTIVE CALCULATIONS 3 ECTS**Learning objectives**

The aim of the course is give an overview of capital investment decisions and calculations related to ICT investments.

Contents

- ICT as cost and business factor
- Productivity factors
- Measuring the impact if ICT

Assessment

Course exam, independent work

Materials

Sward, D. Measuring the Business Value of Information Technology, Intel Press 2006

04IT612/4E DATA SECURITY AND USER MANAGEMENT 3 ECTS**Learning objectives**

The aim of the course is to give a practical overview and the skills needed to organise the usage of information systems from the view of data security

Contents

- security policy
- physical security
- access control
- data protection

Assessment

Assignments and exam

Materials**ELECTIVE STUDIES 15 ECTS**

The student can select his/her elective studies from his/her own degree programme or from the other degree programmes within Lahti Polytechnic. Studies from other polytechnics and universities can also be chosen. In that case he/she must have the selected courses approved to the personal study plan in advance.

PRACTICAL TRAINING 30 ECTS

A continuous 30 ects practical training period is carried out during the studies (if the student wants to do the practical training before the polytechnic studies, he/she has to submit a separate application). The work must be development work in IT. There will be two seminars about practical training; in the first one the student introduces the place of employment, and in the second one a problem concerning the organization's information system or data processing. Practical training is supervised, and a written contract about the traineeship will be made with the organization. Practical training may take place after the first year at the earliest, but it is recommended to carry it out after two years of studies in the first two periods of the third year (from the beginning of June till the end of December). International students will get assistance in finding placements.

THESIS 15 ECTS

Objectives and contents

The aim of the thesis is to develop and demonstrate the student's abilities to use his/her knowledge and skills in research and development. The subject of the thesis must be working-life oriented and correspond to the student's field of studies. The thesis is a process that includes acquiring the knowledge and necessary skills, choosing the subject, planning and carrying out the research work, reporting and presenting the work. The work will be assessed.

Prerequisites

Orientation to Research Work 7.5 erts (Research Methods, Statistical Analysis, Research Process) Before the students can start the thesis, it is required they have accomplished most of the professional studies of the degree programme.

CONTACT DETAILS

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