

Curriculum at LAB University of Applied Sciences 2025-2026

Bachelor of Business Administration, Business Information Technology 25K, full- time studies, Lahti

Code	Name	1 y	2 y	3 y	4 y	ECTS total
LLTIBIT25K-1001 Core Competences						15
AY00CE71	Developing Professional Competences 1	3				3
AY00CE72	Developing Professional Competences 2		1			1
AY00CE73	Developing Professional Competences 3			1		1
A300CE13	Orientation to Sustainability Thinking	2				2
KE00CE74	Intercultural Awareness	3				3
KE00CE75	English for Professional Communication	5				5
LLTIBIT25K-1002 Professional Core Competences						104
LLTIBIT25K-1003 Business Studies						14
AL00CE37	Customer Relations and Marketing	5				5
AL00CE39	Logistics and Supply Chain Management	5				5
AL00CE40	Entrepreneurship, Transforming Innovations into Sustainable Business	4				4
LLTIBIT25K-1004 Information Systems in Business						15
AL00CO05	Business Processes and Information Systems		5			5
AL00CO06	Information System Design		5			5
AL00CO07	Designing Digital Service		5			5
LLTIBIT25K-1005 Website Development						15
AL00CO08	Static Websites	5				5
AL00CO09	Web Publishing and Usability	5				5
AL00CO10	Website Development Project	5				5
LLTIBIT25K-1006 Application Development						15
AL00CO11	Introduction to Programming	4				4
AL00CO12	Introduction to Programming Logic	2				2
AL00CO13	Software Development Process	4				4
AL00CO14	Iterative Application Project	5				5
LLTIBIT25K-1007 Software Development						15
AL00CO15	Object-oriented Programming		5			5
AL00CO16	Data Storages		5			5
AL00CO17	Agile Application Development Project		5			5

LLTIBIT25K-1008 Dynamic Web Development					15
AL00CO18	Browser-side Technologies		5		5
AL00CO19	Three-tier Architecture Technologies		5		5
AL00CO20	Dynamic Website Development Project		5		5
LLTIBIT25K-1009 Development of IT Expertise					15
AL00CO21	Utilising Data in Business	5			5
AL00CE26	Anticipating Future Trends and Innovation Management			5	5
AL00CE27	Research and Development			5	5
LLTIBIT25K-1010 Complementary Competences					46
LLTIBIT25K-1011 Business Related Language Studies					11
AL00CE30	Presentation and Promotion Skills		5		5
K200CE69	Finnish 1	3			3
K200CE70	Finnish 2	3			3
KR00BU42	Swedish for Work, Spoken	1			1
KR00BU43	Swedish for Work, Written	1			1
KS00BT59	Expert Communication Skills	4			4
LLTIBIT25K-1012 Online business					15
AL00CB63	Online Business		5		5
AL00CB64	Online Store Solutions		5		5
AL00CB65	Setting up and Developing an Online Store		5		5
LLTIBIT25K-1013 Business Related Studies					15
AL00CE29	Digital Tools				0
AL00CE31	Business Mathematics				0
AL00CE33	International Business Law				0
AL00CE34	Global Business Environment and Opportunities				0
AL00CE35	Profitability and Budgeting				0
AL00CE36	Financial Accounting				0
AL00CE38	Management and Leadership				0
LLTIBIT25K-1014 Other Studies in LAB (i.e. Language and communication)					0
AL00CQ06	International Intensive Week				0
LLTIBIT25K-1015 Other University Level Studies					0
LLTIBIT25K-1016 Exchange Studies					0
LLTIBIT25K-1017 Practical Training					30
HA00CE59	Practical Training			10	10
HA00CE60	Practical Training 2			10	10
HA00CE61	Practical Training 3			10	10
LLTIBIT25K-1018 Thesis					15
AO00CE62	Thesis planning			5	5
AO00CE63	Thesis Research and Writing				5
AO00CE64	Thesis Publication				5

LLTIBIT25K-1001 Core Competences: 15 ECTS

AY00CE71 Developing Professional Competences 1: 3 ECTS

Learning outcomes

The student is able to

- plan their own learning and cooperate in situations related to their own field of studies
- recognize their own competence and the needs to develop them further and to plan their career path observing them
- act as a group member
- operate in the learning environments of LAB University of Applied Sciences
- picture their own field of studies and its future skills
- give feedback on tuition and services and thus participate in the development of education

AY00CE72 Developing Professional Competences 2: 1 ECTS

Learning outcomes

The student is able to

- utilize various learning opportunities in curriculum
- recognize and aim their own competences to be in level with the future career requirements
- create a study plan that supports the future career goal
- give feedback on tuition and services and thus participate in the development of education

AY00CE73 Developing Professional Competences 3: 1 ECTS

Learning outcomes

The student is able to

- identify themselves as a learner and develop their own learning skills
- evaluate innovative or alternative future competences required in their own field
- recognize and aim their own competences to be in level with the future career requirements
- masters the professional concepts of their own field and is able to point out their competencies during job recruitment processes
- give feedback on tuition and services and thus participate in the development of education

A300CE13 Orientation to Sustainability Thinking: 2 ECTS

Learning outcomes

Identify and define central concepts and frameworks related to sustainability. Recognize the interconnectedness of economic, social and environmental sustainability issues. Understand and develop own individual role in driving sustainability.

Evaluation criterias

Level 1

Pass-Fail

KE00CE74 Intercultural Awareness: 3 ECTS

Learning outcomes

Students are able to

- understand cultural similarities and differences
- work effectively with international partners
- analyze business and work life cultures including Finland using different cultural frameworks
- understand culture adaptation and adjustment.

KE00CE75 English for Professional Communication: 5 ECTS

Learning outcomes

Proficiency level: B2

The student is able to

- identify the characteristics of academic texts and to apply academic conventions to their writing
- demonstrate critical thinking and find, evaluate and use information effectively
- communicate clearly and effectively in different generic and field-specific workplace situations both orally and in writing
- function collaboratively in contemporary working environments in English.

LLTIBIT25K-1002 Professional Core Competences: 104 ECTS

LLTIBIT25K-1003 Business Studies: 14 ECTS

AL00CE37 Customer Relations and Marketing: 5 ECTS

Learning outcomes

The student is able to

- determine the key concepts of marketing and customer-oriented business
- identify the phases of a marketing and sales process
- recognise customer needs and understand their significance for the success of a company

AL00CE39 Logistics and Supply Chain Management: 5 ECTS

Learning outcomes

Student is able to

- use basic concepts of logistics and supply chain management.
- the principles of value chain formation.
- identify the impact of logistics and supply chains on the company's profitability and competitiveness.
- describe the importance of customer orientation and stakeholder cooperation throughout the supply chain.

AL00CE40 Entrepreneurship, Transforming Innovations into Sustainable Business: 4 ECTS

Learning outcomes

Student is able to

- understand entrepreneurship through personal development
- find and utilize different customer oriented business opportunities
- evaluate profitability of business idea

- develop business models

LLTIBIT25K-1004 Information Systems in Business: 15 ECTS

AL00CO05 Business Processes and Information Systems: 5 ECTS

Learning outcomes

The student knows:

- How to model business processes, information flows and data warehouses using formal notations methods.
- The business process IT-systems: supply chain and network systems (SCM), enterprise resource planning (ERP) and customer relationship management (CRM) systems, as well as competence management (CM) and other management systems (DSS, MIS).
- The importance of quality control in business processes and information systems.

AL00CO06 Information System Design: 5 ECTS

Learning outcomes

Student is able to

- design information systems to support business functions
- form a requirement specification for an information system
- model an information system with applicable methods
- utilise basic usability principles in design
- take legal concerns into account in their work regarding information systems

AL00CO07 Designing Digital Service: 5 ECTS

Learning outcomes

Student is able to

- ideate and plan a digital service using user driven methods
- utilize co-creation methods
- visualize a digital service
- analyze a meaning of a digital service in business
- know the affecting regulation eg GDPR for a planning of a digital service

LLTIBIT25K-1005 Website Development: 15 ECTS

AL00CO08 Static Websites: 5 ECTS

Learning outcomes

The student is able to

- create an HTML site that uses CSS and effectively edit an existing site
- identify needs for static and dynamic content
- use the built-in tools of the web browser to study the structure of the dynamic content and the view of the browser
- describe the principle of server / client architecture

AL00CO09 Web Publishing and Usability: 5 ECTS

Learning outcomes

The student is able to

- install and maintain content management and publishing systems and their add-ons securely
- use publishing systems to publish content
- identify needs and make choices between different publishing systems
- take into account usability and accessibility when designing the website

AL00CO10 Website Development Project: 5 ECTS**Learning outcomes**

The student is able to

- use teamwork software in a variety of ways
- implement the website together with the other members of the team
- prepare the requirements specification, project plan, implementation plan, test plan and maintenance documentation for the website
- carry out the agreed tasks in accordance with the project plan
- install a simple web server securely

LLTIBIT25K-1006 Application Development: 15 ECTS**AL00CO11 Introduction to Programming: 4 ECTS****Learning outcomes**

Student is able to

- apply a modern software development environment (SDE)
- apply the basic structures of programming
- implement an interactive and modular application

AL00CO12 Introduction to Programming Logic: 2 ECTS**Learning outcomes**

Student is able to

- convert numbers from one number system to another
- perform basic arithmetic operations with binary numbers
- construct and simplify compound propositions

AL00CO13 Software Development Process: 4 ECTS**Learning outcomes**

The student is able to

- describe the work steps of software development processes
- describe the features of modern and commonly used software development processes
- use tools that support software development processes

AL00CO14 Iterative Application Project: 5 ECTS**Learning outcomes**

Student is able to

- define, implement and report an iterative project
- act in different roles of a software development project
- implement a HTML user interface following the design
- implement the business logic of a web application
- programmatically parse required data from a structured data set

LLTIBIT25K-1007 Software Development: 15 ECTS

AL00CO15 Object-oriented Programming: 5 ECTS

Learning outcomes

Student is able to

- apply the basic concepts of the object-oriented paradigm and object-oriented programming
- create applications using object-oriented language
- design class structure of an object-oriented application
- design, implement, run and report unit tests

AL00CO16 Data Storages: 5 ECTS

Learning outcomes

Student is able to

- form queries using SQL
- apply the basic principles of normalization
- maintain databases
- describe the principles of database transactions
- explain the importance of information security in data storage
- describe alternative data storage types

AL00CO17 Agile Application Development Project: 5 ECTS

Learning outcomes

Student is able to

- collect and apply information to implement a software development project
- analyze client needs and write corresponding project requirements
- design and implement a software project that uses data storages
- apply agile methods on a practical project
- act alone and as a project group member to fulfill the project goals

LLTIBIT25K-1008 Dynamic Web Development: 15 ECTS

AL00CO18 Browser-side Technologies: 5 ECTS

Learning outcomes

The student is able to

- present www content dynamically with JavaScript and its extensions
- form a dynamic one page application using JavaScript frameworks and libraries
- install an application server and maintain it securely
- publish information and host applications on a server

AL00CO19 Three-tier Architecture Technologies: 5 ECTS

Learning outcomes

The student is able to

- recognize the opportunities and limitations presented by application frameworks
- apply commonly used design patterns
- design and implement an application based on server-client principles
- install and maintain a three-tier architecture application

AL00CO20 Dynamic Website Development Project: 5 ECTS

Learning outcomes

The student is able to

- plan and apply working methods to a team to ensure effectiveness
- divide a project into meaningful parts and estimate the time requirements
- implement their part of an application and documentation on the project
- choose a process model applicable to the project and apply it

LLTIBIT25K-1009 Development of IT Expertise: 15 ECTS

AL00CO21 Utilising Data in Business: 5 ECTS

Learning outcomes

The student knows:

- How to define the organization's internal and external data flows and sources of information in business value creation.
- The life cycle of the data and the steps involved, production, transfer, utilization, reliability level, and validity period.
- Common methods and tools to collect and process the data.
- The appropriate visualization methods.

AL00CE26 Anticipating Future Trends and Innovation Management: 5 ECTS

Learning outcomes

Student is able to

- link foresight and innovation into the strategic management of an organization in a changing operating environment
- search, structure, create and utilize foresight information
- innovate and create new solutions with agile development methods

AL00CE27 Research and Development: 5 ECTS

Learning outcomes

The student is able to

- obtain, utilise and assess R&D-related information and their sources critically
- follow the rules of ethical principles applied in all research activities

- use the most typical research and development methods of their own field
- write a scientific report and is familiar with the requirements for language and style and how to document the sources

LLTIBIT25K-1010 Complementary Competences: 46 ECTS

LLTIBIT25K-1011 Business Related Language Studies: 11 ECTS

AL00CE30 Presentation and Promotion Skills: 5 ECTS

Learning outcomes

Proficiency level: B2

A student is able to

- prepare materials for and deliver presentations confidently and effectively in front of an audience
- perform in other public speaking situations at work
- promote business and personal brands
- manage personal branding and networking through various media.

K200CE69 Finnish 1: 3 ECTS

Learning outcomes

The student is able to

- identify and use the course vocabulary and phrases for common everyday situations
- tell about oneself and understand basic questions
- read and write simple sentences related to the course topics.

Proficiency level: A1

K200CE70 Finnish 2: 3 ECTS

Learning outcomes

The student is able to

- communicate in most common everyday situations
- understand slowly and clearly spoken Finnish when the topic and the vocabulary are familiar
- understand and write a simple message or text
- use the basic vocabulary and some grammatical structures of Finnish.

Proficiency level: A1

KR00BU42 Swedish for Work, Spoken: 1 ECTS

Learning outcomes

The student is able to

- convey and validate arguments
- use vital field-specific vocabulary
- communicate essential matters about their education, work experience and tasks
- present their field-specific operational environment

- communicate in various working life situations in Swedish.

The student completes the Public Administration Language Test in Swedish.

KR00BU43 Swedish for Work, Written: 1 ECTS

Learning outcomes

The student is able to

- use vital field-specific vocabulary
- communicate essential matters about their education, work experience and tasks
- understand and produce various short texts related to studies and working life
- acquire information on their field in Swedish
- use online dictionaries.

The student completes the Public Administration Language Test in Swedish.

KS00BT59 Expert Communication Skills: 4 ECTS

Learning outcomes

Proficiency level: C2

The student masters Finnish language as a mother tongue in all professional spoken and written communication situations.

LLTIBIT25K-1012 Online business: 15 ECTS

AL00CB63 Online Business: 5 ECTS

Learning outcomes

The student is able to

- evaluate online business models as part of a company's business strategy
- recognise the resource needs of online business
- plan and describe a customer-oriented service process utilising a web store

AL00CB64 Online Store Solutions: 5 ECTS

Learning outcomes

The student is able to

- choose the most suitable online store solution and components for a company's operating environment
- recognise the services used in online store solutions and their interfaces
- name the factors affecting the cost effectiveness of an online store

AL00CB65 Setting up and Developing an Online Store: 5 ECTS

Learning outcomes

The student is able to

- set up an online store suitable for a company's business
- add services to an online store to support business

- apply methods affecting an online store's cost effectiveness

LLTIBIT25K-1013 : 15 ECTS

AL00CE29 Digital Tools: 5 ECTS

Learning outcomes

The student is able to

- utilise essential office applications in their studies
- utilise cloud services as part of team work
- function in an online learning environment

AL00CE31 Business Mathematics: 4 ECTS

Learning outcomes

Student is able to

- understand common mathematical methods used in real business life and when to use them.
- practice critical thinking and handles the problem solving skills.
- find and utilise up to date information.
- find confidence by gaining routine of calculation.

AL00CE33 International Business Law: 4 ECTS

Learning outcomes

The student is able to

- structure the legal regulations in the international business

AL00CE34 Global Business Environment and Opportunities: 4 ECTS

Learning outcomes

Understanding the changing global business environment and its effects on international business operations and trade.

After completing the course student is able

- to explain the concepts of internationalization and globalization
- to identify and describe features of global business
- to analyse and interpret the changing global business environment and economics as well as their effects on business

AL00CE35 Profitability and Budgeting: 5 ECTS

Learning outcomes

The student is able to

- produce cost-volume-profit analyses
- identify cost drivers and apply cost data in price setting
- draw up budgets and define the budgeting process

AL00CE36 Financial Accounting: 5 ECTS

Learning outcomes

The student is able to

- record business transactions into bookkeeping in a small company and draw up its profit/loss account and balance sheet
- calculate the amount of VAT payables
- analyze company's profitability, solidity and liquidity through financial ratios

AL00CE38 Management and Leadership: 5 ECTS**Learning outcomes**

To learn and become acquainted with the managerial principles, models and tasks in an organisation as well as features of successful leadership.

LLTIBIT25K-1014 Other Studies in LAB (i.e. Language and communication): 0 ECTS**AL00CQ06 International Intensive Week: 5 ECTS****Learning outcomes**

This is an international intensive week primarily aimed at business students.

LLTIBIT25K-1015 Other University Level Studies: 0 ECTS**LLTIBIT25K-1016 Exchange Studies: 0 ECTS****LLTIBIT25K-1017 Practical Training: 30 ECTS****HA00CE59 Practical Training: 10 ECTS****Learning outcomes**

The student is able to

- describe work-related phenomena and use related concepts
- act in a productive way, following the practices of the workplace and the ethical principles of the profession
- use the techniques, work methods, models and processes that they have learnt
- act in a customer-oriented way in interactive situations in the workplace and in the cooperation network
- evaluate and develop their own competence in the work done in practical training

HA00CE60 Practical Training 2: 10 ECTS**Learning outcomes**

The student is able to

- describe work-related phenomena and use related concepts
- act in a productive way, following the practices of the workplace and the ethical principles of the profession
- use the techniques, work methods, models and processes that they have learnt
- act in a customer-oriented way in interactive situations in the workplace and in the cooperation network

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- evaluate and develop their own competence in the work done in practical training

HA00CE61 Practical Training 3: 10 ECTS

Learning outcomes

The student is able to

- describe work-related phenomena and use related concepts
- act in a productive way, following the practices of the workplace and the ethical principles of the profession
- use the techniques, work methods, models and processes that they have learnt
- act in a customer-oriented way in interactive situations in the workplace and in the cooperation network
- evaluate and develop their own competence in the work done in practical training

LLTIBIT25K-1018 Thesis: 15 ECTS

AO00CE62 Thesis planning: 5 ECTS

Learning outcomes

The student is able to:

- describe the objectives and core contents of their thesis
- plan and describe the stages of the thesis process
- take into account the possible research permit and copyright issues.

AO00CE63 Thesis Research and Writing: 5 ECTS

Learning outcomes

The student is able to:

- implement the thesis on the basis of an approved thesis plan.

AO00CE64 Thesis Publication: 5 ECTS

Learning outcomes

The student is able to:

- present the results or output of their thesis
- report on their thesis in writing in accordance with the thesis guidelines of LAB University of Applied Sciences
- write a maturity test.