

Curriculum at Lahti University of Applied Sciences
2017-2018

Bachelor's Degree Programme in Industrial and Brand Design 17

Code	Name	1 y	2 y	3 y	4 y	ECTS total
MITEB17-1000 CORE COMPETENCE						180
MITEB17-1001 Common Core Competence						25
LA00BE73	English for Work	3				3
LA00BE74	Swedish language, Oral Communication	1				1
LA00BE75	Swedish language, Written Communication	2				2
LA00BE76	Professional communication	4				4
LA00BE77	Developing professional competence 1	2				2
LA00BQ87	Developing professional competence 2		2			2
LA00BQ88	Developing professional competence 3			1		1
LA00BE78	Research and Development				5	5
LA00BE79	Anticipating Future Trends	2,5	2,5			5
MITEB17-1002 Professional Core Competence						155
MITEB17-1007 Arts Foundation Studies						15
MI00BK66	History of art and design	5				5
MI00BK79	Visual Design	5				5
MI00BK90	Color Theory	5				5
MITEB17-1011 Design Basics						15
MI00BK74	Orientation Workshop	2				2
MI00BK62	Fundamentals of Design	5				5
MI00BK69	Design Tools	5				5
MI00BL77	Developing by Experimenting	3				3
MITEB17-1010 Creative Design Work						15
MI00BK71	Modelling Basics	5				5
MI00BL75	Three-Dimensional Modelling Project	5				5
MI00BK95	Creative Design Methods	2,5	2,5			5
MITEB17-1012 User Centric Design						15
MI00BK96	User Experience and User-Centred Design Methods		5			5
MI00BL20	Sustainable Design		5			5
MI00BL14	User-Centred Innovation Project		5			5
MITEB17-1017 Design Work Profile						15
MI00BL98	Vehicle Design Modelling Techniques		5			5

MI00BL84	Design of Packaging Structures and Fibre-Based Materials		5		5
MI00BM05	Structures, Materials and Production Processes in Product Design		5		5
MI00BL48	Accessories Design and Materials		5		5
MI00BL49	Production Methods		5		5
MI00BL23	Publishing a Promotional Portfolio		5		5

MITEB17-1019 Product Developer's Competence 15

MI00BL13	Entrepreneurship and Professional Practices		5		5
MI00BL07	Product Development Processes		5		5
MI00BM00	User Interface Design		5		5
MI00BL85	Brand Communications Project		5		5
MI00BL33	Functional Product Development and Materials		5		5

MITEB17-1020 Market Awareness 10

MI00BL22	Marketing Communication and Branding		5		5
MI00BM01	CAD Modelling Techniques for Vehicle Design		5		5
MI00BL87	Future Technologies and Smart Materials		5		5
MI00BL37	Wearable Technology and Smart Materials		5		5

MITEB17-1022 Designer Identity 10

MI00BL24	Working Life Simulation		5		5
MI00BK61	Professional Profile Development			5	5

MITEB17-1003 Practical Training 30

LA00BO03	Practical Training		2,5	5	2,5	10
LA00BO04	Practical Training 2			5	5	10
LA00BO05	Practical Training 3			5	5	10

MITEB17-1004 Thesis 15

LA00BN99	Thesis planning		1,5		3,5	5
LA00BO00	Thesis research and writing				5	5
LA00BO01	Thesis publication				5	5

MITEB17-1005 COMPLEMENTARY COMPETENCE 60

MITEB17-1000 CORE COMPETENCE: 180 ECTS

MITEB17-1001 Common Core Competence: 25 ECTS

LA00BE73 English for Work: 3 ECTS

Learning outcomes

The student is able to

- recognise the different sources and tools to help them improve their English skills
- gain confidence and manage in written and oral communication situations required in professional studies and in the work life

- describe their education and qualifications
- understand the terminology and concepts of their own field

LA00BE74 Swedish language, Oral Communication: 1 ECTS

Learning outcomes

The student is able to

- express and justify their opinions
- use the key terminology of their own field
- tell about their education, work experience and duties e.g. in job-seeking situations
- present a company of their own trade

LA00BE75 Swedish language, Written Communication: 2 ECTS

Learning outcomes

The student is able to

- use the key terminology of their own field
- tell about their education, work experience and duties e.g. in job-seeking situations
- write a job application
- obtain information related to their own field of studies in Swedish e.g. on the Internet
- use online dictionaries

LA00BE76 Professional communication: 4 ECTS

Learning outcomes

The student is able to

- plan and produce grammatically correct texts
- write an article or an essay that fulfils the criteria of a scientific text related to their own field of studies
- perform actively in professional group communication situations
- retrieve information from a variety of sources and evaluate it critically

LA00BE77 Developing professional competence 1: 2 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 Lahti UAS
- picture their own field of studies and its future skills
- give feedback on tuition and services and thus participate in the development of education

LA00BQ87 Developing professional competence 2: 2 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

LA00BQ88 Developing professional competence 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

LA00BE78 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

LA00BE79 Anticipating Future Trends: 5 ECTS

Learning outcomes

The student is able to

- anticipate the changes in their own operational environment
- utilise the futures research materials produced by national and international societies in their own field of studies
- use the terminology and methods of futures research in the research and development of their own field

MITEB17-1002 Professional Core Competence: 155 ECTS

MITEB17-1007 Arts Foundation Studies: 15 ECTS

MI00BK66 History of art and design: 5 ECTS

Learning outcomes

The student is able to

- describe the main developments in the history of art, design and visual communication
- understands connections between art, communication and design

- evaluate different interpretations of the history of visual expression
- use the styles of different epochs in visual design

MI00BK79 Visual Design: 5 ECTS

Learning outcomes

The student is able to

- present their work to peer audiences and evaluate them critically
- make use of various visual idea generation methods
- use personal observations and emotions as a starting point for creative thinking
- make connections between visual arts and other forms of visual culture
- analyse, interpret and explain contemporary visual culture

MI00BK90 Color Theory: 5 ECTS

Learning outcomes

Students will be able to

- express colour theory and interrelations through visual exercises
- verbally describe the impressive, expressive and symbolic nature of colours and colour combinations and apply this knowledge in visual exercises
- creatively apply the rules of colour interaction
- discuss the classical colour theories and their application in fine arts and design.

MITEB17-1011 Design Basics: 15 ECTS

MI00BK74 Orientation Workshop: 2 ECTS

Learning outcomes

The student is able to

- describe the principles of team work
- work in teams
- describe and assess the phases of design work

MI00BK62 Fundamentals of Design: 5 ECTS

Learning outcomes

The student is able to

- use basic concepts of the field
- produce a visual presentation
- demonstrate understanding of the typical roles and practices of their chosen field

MI00BK69 Design Tools: 5 ECTS

Learning outcomes

The student is able to

- demonstrate a command of the basics of digital imaging

- recognize the principles of project work
- recognize the principles of the design process
- visually present a design plan

MI00BL77 Developing by Experimenting: 3 ECTS

Learning outcomes

The student is able to

- utilize modelling learning environments as part of a product development process
- produce rapid prototypes for product development.

MITEB17-1010 Creative Design Work: 15 ECTS

MI00BK71 Modelling Basics: 5 ECTS

Learning outcomes

The student is able to

- demonstrate a basic command of 3D design methods and tools specific to their chosen field
- demonstrate a command of the basics of 3D modelling and visualisation
- produce a simple visual model.

MI00BL75 Three-Dimensional Modelling Project: 5 ECTS

Learning outcomes

The student is able to

- convert a two-dimensional design into a three-dimensional model
- safely use modelling tools
- maintain a clean and tidy shared work environment and take care of tools and equipment.

MI00BK95 Creative Design Methods: 5 ECTS

Learning outcomes

The student is able to

- assess how various design methods could be used to carry out an assignment
- choose a suitable design process model for an assignment
- use creative methods in their design work
- create concepts by experimentation

MITEB17-1012 User Centric Design: 15 ECTS

MI00BK96 User Experience and User-Centred Design Methods: 5 ECTS

Learning outcomes

The student is able to

- apply the principles of user-centred design in their work
- identify the basic methods of user-centred design

- apply user-centred design processes in assignments
- demonstrate a command of the communal design approach and its basic methods

MI00BL20 Sustainable Design: 5 ECTS

Learning outcomes

The student is able to

- describe the principles and opportunities of environmental and ethical thinking in design
- design products with consideration of life cycles, materials, manufacturing methods, legislation and eco-efficient technologies and practices
- choose eco-efficient product development strategies as part of the design process

MI00BL14 User-Centred Innovation Project: 5 ECTS

Learning outcomes

The student is able to

- describe the working principles of the user-centred innovation process
- develop new products and services from an interactive and user-centred approach
- describe the development methods, work approach and evaluation of the innovation process
- apply appropriate methods and approaches in innovation processes
- contribute to multidisciplinary teams and promote goal-oriented activity

MITEB17-1017 Design Work Profile: 15 ECTS

MI00BL98 Vehicle Design Modelling Techniques: 5 ECTS

Learning outcomes

The student is able to

- choose appropriate modelling techniques for different phases of vehicle design work
- optimize the use of different materials, techniques and structures in modelling and in the design and manufacture of an end product
- build a clay model.

MI00BL84 Design of Packaging Structures and Fibre-Based Materials: 5 ECTS

Learning outcomes

The student knows how to

- identify the most common fibre-based packaging materials and their production methods
- utilize packaging industry standards libraries in design work
- apply standard modular dimensions in a design process
- describe the functions of the primary and the secondary package
- calculate, give dimensions and draw the folds on a packaging dieline
- create a production-viable dimensional drawing of their design using CAD software

MI00BM05 Structures, Materials and Production Processes in Product Design: 5 ECTS

Learning outcomes

The student is able to

- identify the differences between production techniques and technologies in product design
- select appropriate structures, production methods and materials in a design project
- define the effects of the chosen production method on the end product's price and qualities

MI00BL48 Accessories Design and Materials: 5 ECTS**Learning outcomes**

The student is able to

- identify the principles and goals of designing different accessories
- apply accessory design principles innovatively in designing a new product
- identify and select appropriate materials for an accessory design assignment

MI00BL49 Production Methods: 5 ECTS**Learning outcomes**

The student is able to

- describe typical production methods in their own field
- take into account the demands of different production methods and materials in designing a product

MI00BL23 Publishing a Promotional Portfolio: 5 ECTS**Learning outcomes**

The student is able to

- select and compare publishing platforms
- create a professional portfolio for different purposes
- use a portfolio as a promotional tool
- use a portfolio as a means of developing their professional profiles.

MITEB17-1019 Product Developer's Competence: 15 ECTS**MI00BL13 Entrepreneurship and Professional Practices: 5 ECTS****Learning outcomes**

The student is able to

- identify entrepreneurial competence requirements and evaluate their personal competencies
- identify and assess opportunities in the business environment of their chosen field
- plan a business operation, map finance opportunities and assess the viability of a business
- identify common contract types, legislation and practices specific to their chosen field
- take into account copyright law and intellectual property rights in their work

MI00BL07 Product Development Processes: 5 ECTS**Learning outcomes**

The student is able to

- assess the suitability of different process models for assignments
- select the most appropriate process model to use in an assignment
- implement the stages of the chosen process model

MI00BM00 User Interface Design: 5 ECTS

Learning outcomes

Student knows how to

- design a graphical user interface
- use software to design an user interface.

MI00BL85 Brand Communications Project: 5 ECTS

Learning outcomes

The student will be able to

- use future brand creation methods in a design project
- describe how brand materials are created by using a brand manual
- produce visual brand materials to support business planning and brand strategies
- specify and commission visual elements for brand materials in cooperation with other professionals

MI00BL33 Functional Product Development and Materials: 5 ECTS

Learning outcomes

The student is able to

- define the phases of the development process of functional products
- work according to the principles of a need-based design process
- design functional products
- recognize different functional materials and choose suitable materials for different purposes
- explain the principles of outsourcing products in their chosen field

MITEB17-1020 Market Awareness: 10 ECTS

MI00BL22 Marketing Communication and Branding: 5 ECTS

Learning outcomes

The student is able to

- explain the concept, contents and characteristics of marketing thought
- use the methods of marketing communication and branding in their professional activity
- draw up a marketing plan
- select appropriate methods and channels for marketing communication and branding

MI00BM01 CAD Modelling Techniques for Vehicle Design: 5 ECTS

Learning outcomes

The student is able to

- use 3D modelling for the purposes of the vehicle design industry
- use 3D suites to produce various models for vehicle design projects
- produce 3D visualisations based on geometric models

MI00BL87 Future Technologies and Smart Materials: 5 ECTS

Learning outcomes

Students will be able to

- apply existing futures scenarios in the design of a new product
- identify different smart and active materials and their applications
- apply their knowledge of functional product design
- at a conceptual level, design a working product using smart materials and/or future technologies

MI00BL37 Wearable Technology and Smart Materials: 5 ECTS

Learning outcomes

The student is able to

- apply their knowledge of functional product design
- at a conceptual level, develop a working product featuring wearable technology
- apply existing smart technologies in wearables
- identify different smart materials and their applications

MITEB17-1022 Designer Identity: 10 ECTS

MI00BL24 Working Life Simulation: 5 ECTS

Learning outcomes

The student is able to

- develop their professional practice and contribute to a multidisciplinary workplace community
- describe the role of marketing communications and branding in the community's activities
- work in a team towards common goals

MI00BK61 Professional Profile Development: 5 ECTS

Learning outcomes

The student is able to

- define their professional profile
- set goals and develop their professional profile accordingly
- produce a portfolio for postgraduate studies or job-seeking purposes

MITEB17-1003 Practical Training: 30 ECTS

LA00BO03 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

LA00BO04 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
- evaluate and develop their own competence in the work done in practical training

LA00BO05 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

MITEB17-1004 Thesis: 15 ECTS

LA00BN99 Thesis planning: 5 ECTS

Learning outcomes

The student is able to

- apply the acquired theoretical knowledge to the problems and phenomena of the working life
- solve problems, organise and perceive wholes
- work interactively, tenaciously and systematically
- work according to the practices of their own line of trade
- gather information and evaluate sources critically - report their work orally, in writing and visually

LA00BO00 Thesis research and writing: 5 ECTS

Learning outcomes

The student is able to

- apply the acquired theoretical knowledge to the problems and phenomena of the working life
- solve problems, organise and perceive wholes
- work interactively, tenaciously and systematically
- work according to the practices of their own line of trade
- gather information and evaluate sources critically - report their work orally, in writing and visually

LA00BO01 Thesis publication: 5 ECTS

Learning outcomes

The student is able to

- apply the acquired theoretical knowledge to the problems and phenomena of the working life
- solve problems, organise and perceive wholes
- work interactively, tenaciously and systematically
- work according to the practices of their own line of trade
- gather information and evaluate sources critically - report their work orally, in writing and visually

MITEB17-1005 COMPLEMENTARY COMPETENCE: 60 ECTS

Courses included in the study module

You can find Complementary competence courses from separate "Complementary competence courses taught in English, Bachelor's Degree, 17S-" Curriculum.

In addition, you can choose Professional Core Competence courses of other Bachelor's Degree Programmes as Complementary competence courses.