STUDY GUIDE 2011 - 2012

Lahti University of Applied Sciences
Institute of Design and Fine Arts

Degree programme in Design 240 ECTS
Specialisation Line in the Design Industry
Fashion Design

DEGREE PROGRAMME IN DESIGN

Qualification
Polytechnic Degree in Culture and Arts
Degree Title
Bachelor of Crafts and Design (Muotoilija AMK)
Scope
240 ECTS / 4 years

Specialisation lines and major subjects

Specialisation Line in Applied Art
Jewellery Design

Specialisation Line in the Design Industry
Vehicle Design
Fashion Design
Package Design and Graphics
Interior Architecture and Furniture Design
Industrial Design

A successful designer needs aesthetic understanding; skills in gathering and applying information; teamwork and communication skills; entrepreneurship competence; and creative problem-solving skills. Professionals in the various fields of design industry create serially produced items for everyday use.

Studies

Students follow the curriculum established for their major subject. The curriculum in force at the time of the student's first year of study is applied when evaluating the student's completion of requirements. In addition, students have the opportunity to complete some of their studies abroad, participating in various exchange programmes. Credit transfer and substitution based on earlier studies or experience is possible.

Basic studies required of all students at the Lahti University of Applied Sciences include language and communication studies and entrepreneurship courses. Required arts studies consist of courses in the visual arts, history and cultural theory. Studies taken elsewhere (such as at other institutions of higher learning) may compensate for some courses.

Basic studies are completed primarily during the first two years of study. Professional studies are specific to each major subject and generally begin after the first year of study. Elective courses can be selected from the student's own degree programme, other degree programmes at the Lahti University of Applied Sciences, or from other polytechnics or institutions of higher learning. Elective studies can also include courses taken abroad as an exchange student. Half of the professional practice is completed through participating in supervised business co-operation projects, and half through internships at suitable companies in Finland and abroad. The thesis is a supervised, independently created body of work accompanied by seminar sessions and a maturity test.

DEGREE PROGRAMME IN DESIGN
Specialisation Line in the Design Industry
Major in Fashion Design 240 ECTS

The education of a fashion designer aims at providing students with the basic skills and competence in industrial fashion design. Central skills include the understanding of body forms, motion and plasticity. The degree programme familiarises students with clothing physiology, the qualities and uses of clothing materials, clothing communication and industrial production processes enabling them to design ethically, aesthetically, technically and economically high-quality products and collections for different target groups.

Gaining competence and success in the profession requires outstanding visual expression and the mastering of CAD tools, skills in visual perception and comprehension, skills in seeking and applying information, cooperation skills and initiative to find one's special field of operation, as well as creativity for solving problems in an aesthetically satisfying manner.

A variety of jobs are available for fashion designers, for instance in the fashion industry, commerce and the media. In industry, designers create individual designs and collections. They bring their expertise to product development teams, which are part of the marketing strategy of the company. Fashion designers can also choose to specialise in buying or fashion coordination in trade and commerce; costume design for theatre, film or TV; or in expert service provision for the media.

Degree structure for Fashion Design

BASIC STUDIES SPECIFIC TO THE DEGREE PROGRAMME 47 ECTS	Year				
	1	2	3	4	∑
University of Applied Sciences common basic studies 14 ECTS					**14**
01SUO Professional communication					
• includes 01SUOA Professional communication (3 ECTS) and 01PINFO Information literacy (1 ECTS)	1	3			
01RUO Swedish language 3 ECTS					
• 01RUOK written skills (1.5 ECTS)	1.5				
• 01RUOS oral skills (1.5 ECTS)	1.5				
01ENG Business English basics		3			
01PJYT Introduction to entrepreneurship			4		
Visual studies 1					**12**
05PVISUAMUO Visual design	9				
05PVÄRIH Colour	3				
Visual studies 2					**12**
05PPIMA Drawing and painting		3			
05PELÄVÄ1 Life drawing I	3				
05PELÄV2 Life drawing II		3			
05PPLASTSOM1 Sculpture I		3			
History and theory of art					**9**
05PYLTAHI General art history	3				
05PTAHIM Modern and contemporary art	3				
05PMUOHIST History of design		3			

PROFESSIONAL STUDIES 133 ECTS	Year				
	1	2	3	4	∑
Introduction to design					**10**
05JOHDMUOP Introduction to design studies	3				
05MUTEKÄ Design theory and concepts	4				
05MUOPRO1 Design process 1	3				
Multi-faceted design					**16**
05MUOPRO Design process		4			
05KÄYTMU User-centred design		4			
05YMPMU Eco-efficient design		3			
05PÄÄTUOP2 Supporting major studies 2		5			
Product development and the designer					**19**
05FUNTIO Functional product development process			4		
05FUVAATE Functional fashion design, research and knowledge			4		
05PROHALL Project management			3		
05MUOTIFIL Design and the philosophy of fashion			4		
05PÄÄTUOP3 Supporting major studies 3			4		
Professional profile					**10**
05MUOTIDEN Designer identity				3	
05TULEVTUT Futures research				3	

05PÄÄTUOP4 Supporting major studies 4				4	
From fibre to fabric 05RAAKAEKO Raw materials, textile ecology 05TEKSRAK Textile structures	 3 3				**6**
Textile printing 05PAISUU Printed textiles design		 6			**6**
Material technology and research 05ERIKMATMU Special printing methods and material treatments 05TEKSTES Textile material testing			 4 2		**6**
Introduction to pattern and manufacturing technology 05KAAVTEPE Introduction to pattern technology 05VALMPER Introduction to manufacturing technology	 4 2				**6**
Advanced pattern and manufacturing technology 05SYVKAAVAT Advanced pattern technology 05SYVVALMT Advanced manufacturing technology		 5 2			**7**
Pattern and manufacturing technology of special products 05ERIKAAVA Patterning special products 05ERIKVALM Subcontracting and outsourcing			 5 2		**7**
Independent pattern design 05OPINKAAVA Patterning thesis garments				 7	**7**
Design documentation 05DIGTOIMI Digital environments and hardware 05MUOPIIR Design drawing 05OHJMUVA Software 05DIGIMUOTI Digital fashion illustration	 1 4 5 3				**13**
Design presentation 1 05MUOTPORT Designer's portfolio 05ESTEKMUOP Design drawing and presentation techniques 05MUODIGIVK Digital photography for the designer 05KÄYOHJ Graphic software 05ADOBESYV Advanced Adobe Illustrator		 2 2 2 4 3			**13**
Design presentation 2 05KÄYTMUL Practical graphic design and multimedia 05DIGIVIES Digital communication			 4 3		**7**

Elective studies 15 ECTS	**Year**				
	1	**2**	**3**	**4**	**∑**
Elective studies					**15**

PROFESSIONAL PRACTICE 30 ECTS	**Year**				
	1	**2**	**3**	**4**	**∑**
Professional practice I Internship					**15**
Professional practice II Business co-operation projects, R&D					**15**

THESIS 15 ECTS	**Year**

	1	2	3	4	∑
Thesis 05POPINNÄYT Thesis				15	**15**

BASIC STUDIES SPECIFIC TO THE DEGREE PROGRAMME 47 ECTS

University of Applied Sciences required basic studies 14 ECTS

As specified in the general curriculum of the Lahti University of Applied Sciences. The course content and descriptions can be found in the study guide for common basic studies at the Lahti University of Applied Sciences.

Visual studies 1, 12 ECTS

Module-specific learning outcomes
Students
- know how to use their sense of sight as a basis for creative thinking
- know how to express their thoughts through a visual medium
- have a creative, independent attitude towards the artistic management of design and communication processes
- know how to use basic visual elements in a controlled, deliberate manner
- know how to analyse and interpret visual culture
- know how to use key concepts in visual expression correctly and vividly
- see their professional identity as part of the context of design and visual communication.

05PVISUAMUO VISUAL DESIGN 9 ECTS

Students
- can make detailed, original visual observations
- have increased their depth of understanding and analysing what they see
- have practised using their visual thinking in creative tasks
- know how to make use of various ideation methods
- know how to present their visual creations to peer audiences and evaluate them critically
- recognise the artistic nature of a professional design process
- can use their improved visual and artistic general knowledge as a basis for tasks related to design and communication.

Contents (the focus depends on the major subject)
Natural forms and man-made forms; the methods of image construction; classical and expressive aesthetics; allegory, metaphor and symbol; image as a semiotic sign; classical myths and narration.
Methods and assessment
Introductions and lectures, supervised assignments and critique sessions.
Excursions to exhibitions.
Graded on a scale from 1 to 5.
Materials
Literature and exam dates are provided at the beginning of the course.

05PVÄRIH COLOUR 3 ECTS

Learning outcomes
Students
- observe and assess colours and chromatic structures with increased awareness
- understand the impressive, expressive and symbolic characteristics of colour
- know Itten's theory of 7 colour contrasts and know how to apply it creatively
- understand the laws of colour interaction and know how to use them
- know some of the elements of classical colour theory and their applications in art and design
- can express themselves and convey both aesthetic and communicative qualities through colour.

Contents
Itten's theory of 7 colour contrasts; Itten's concept of colour harmonies; the aesthetic, psychological and symbolic bases of colour expression; Albers' concept of colour relativity and interaction.
Methods and assessment

Introductions and lectures, supervised assignments and critique sessions.
Graded on a scale from 1 to 5.
Materials
Albers, J. 1998. Värien vuorovaikutus. Vapaa Taidekoulu, Helsinki.
Itten, J. 1991. Värit taiteessa. Taide, Helsinki.
Huttunen, M. Värit pintaa syvemmältä.

Visual studies 2, 12 ECTS

Module-specific learning outcomes
Students
- know the anatomical structure, rhythm and movement of the human body
- are able to analyse their visual perceptions as a whole
- know how to express their associations and thoughts through the medium of sculpture
- understand the character and role of composition, rhythm and movement in an image
- have an increased ability to generate independent, artistically insightful perceptions and ideas
- are more mature in their personal artistic expression
- use their sense of sight with increased criticism and analysis.

05PPIMA DRAWING AND PAINTING 3 ECTS

Learning outcomes
Students
- demonstrate a grasp of the essence of contemporary art through their own work
- demonstrate a grasp of the significance of visual analysis and visual thinking in finding solutions to visual problems.

Contents
Giving concrete visual form to the students' own visual perceptions and ideas.
Methods and assessment
Individually supervised assignments and critique sessions.
Graded on a scale from 1 to 5.
Materials
Information to be provided at the beginning of the course.

05PELÄVÄ1 LIFE DRAWING I, 3 ECTS

Learning outcomes
Students
- know how to observe
- understand the structure of the human body
- have developed their understanding of forms, proportions and spatial thinking
- know how to analyse what they see
- are skilled in using various drawing instruments
- are encouraged to express themselves visually.

Contents
Croquis drawings and large-scale studies of life models; anatomy basics such as bones and superficial muscles; slideshows and critique sessions.
Methods and assessment
Assignments, 80% obligatory presence, critique session.
Graded on a scale from 1 to 5.
Materials
Information to be provided at the beginning of the course.

05PELÄV2 LIFE DRAWING II, 3 ECTS

Learning outcomes
Students
- have liberated themselves from reproductive drawing and see the internal dynamics and rhythm of a drawing
- can see the essential in a model, human structure and movement, also when clothed
- have improved their sense of proportion
- have improved their own expression, expressing themselves freely
- have improved their technical drawing skills.

Contents
Croquis drawings and large-scale studies of life models; anatomy basics such as bones and superficial muscles; slideshows and critique sessions.
Prerequisites
Life Drawing I.
Materials
Information to be provided at the beginning of the course.

05PLASTSOM1 SCULPTURE I, 3 ECTS

Learning outcomes
Students
- understand the significance of space, light and movement in three-dimensional work
- know how to use basic materials, instruments and methods
- understand the significance of the interaction of form and material
- know how to analyse both their individual formal idiom and that of their environment
- know how to apply their skills and knowledge in targeted work in their respective fields.

Contents
Familiarisation with the basics of three-dimensional composition and design, materials, and methods, through supervised assignments. Recognition of the problems involved in the transition between two- and three-dimensionality.
Methods and assessment
Assignments as instructed.
Critique sessions.
Materials
Information to be provided at the beginning of the course.

History and theory of art 9 ECTS

Module-specific learning outcomes
Students
- know and recognise the overall development of Western visual arts, architecture and design
- understand the historical and collective basis of art, communication and design
- are able to analyse and interpret the visual tradition of the field in relation to their own work
- have increased competence in interpreting images in writing.

05PYLTAHI ART HISTORY 3 ECTS
Learning outcomes
Students know the development of Western art from prehistory to the early 19th century and the basic concepts of art history research.
Contents
The history of Western art and architecture from prehistory to the early 19th century.
Methods and assessment
Lectures, exam and study trip.
Graded on a scale from 1 to 5.
Materials
Online materials on the intranet.
Honour – Fleming. 1992 (and later editions) Maailman taiteen historia. Helsinki: Otava.

05PTAHIM MODERN AND CONTEMPORARY ART 3 ECTS

Learning outcomes
The aim is to open up different vistas in art and to link phenomena in art to the student’s individual expression.
Students
- know and recognise the development of visual arts from the late 19th century to the present day.

Contents
The developments, movements and pivotal representatives of modern art, focusing on painting; the concepts and expressive devices of contemporary art and their influence in art.
Prerequisites
Art history (3 ECTS) or a corresponding course.
Methods and assessment
Lectures, study trip and analysing works of art.

Graded on a scale from 1 to 5.
Materials
Online materials on the intranet.
Sederholm. 2000. Tämäkö taidetta? Porvoo: WSOY.

05PMUOHIST HISTORY OF DESIGN 3 ECTS

Learning outcomes
Students
- know and recognise the periods, characteristics and pivotal representatives of Finnish and international design
- recognise the significance of design history topics for their particular professional field
- know the social background influencing design and the links between the visual arts and design.

Contents
Basic concepts. Familiarisation with the periods and background of Finnish and international design from the emergence of the arts and crafts movement to contemporary design. Discussion of the sub-areas of design from the point of view of the history of the profession.
Methods and assessment
Lectures and extensive paper.
Graded on a scale from 1 to 5.
Materials
Online materials on the intranet and
Seppälä-Kavén. 2008. Muodon ajat. Turku: Turun ammattikorkeakoulu

PROFESSIONAL STUDIES 133 ECTS

Introduction to design 10 ECTS

Module-specific learning outcomes
Students
- are familiar with the theoretical basis, terms and concepts of design, as well as the job description of a designer
- understand the content of the design process
- know how to use various ideation techniques and problem-solving skills
- know the basics of sound interaction skills.

05JOHDMUOP INTRODUCTION TO DESIGN STUDIES 3 ECTS

Learning outcomes
Students
- understand the basic principles related to the degree programme
- orient themselves towards the world of the designer and its sub-fields
- are familiar with the basic processes involved in design and team work
- can produce ideas and solve problems in collaboration with other design majors.

Contents
Supervised, creative teamwork workshops. Lectures by experts in design major subjects.
Assignments.
Methods and assessment
Lectures, assignments, group assignments. Feedback sessions.
Graded on a scale from 1 to 5.
Materials
Information to be provided at the beginning of the course.

05MUTEKÄ DESIGN THEORY AND CONCEPTS 3 ECTS

Learning outcomes
Students
- understand the theoretical points of departure and foundations of design
- know basic concepts and how to use them deliberately
- are able to work on the basis of theory and know how to apply it in practice.
- understand the basics of industrial fashion design and the job description of a designer.

Contents

Lectures. Familiarisation with the job description of a fashion designer as well as the parts of a clothing item and their names. Assignment.

Methods and assessment

Lectures. Assignments.
Graded on a scale from 1 to 5.

Study materials

Information to be provided at the beginning of the course.

05MUOPRO1 DESIGN PROCESS 1, 3 ECTS

Learning outcomes

Students
- understand the basic principles of design processes and know how to apply them to their own work
- demonstrate improved ideation and problem-solving skills, self-expression and creative thinking
- know the basics of teamwork
- understand the basic elements of composition in fashion design: three-dimensional form, silhouettes and lines
- understand the significance of material and colour in fashion design.

Contents

Lectures. Familiarisation with three-dimensional design and the roles of material and colour in design. Assignment.

Methods and assessment

Lectures. Assignment. Process management. Integrated with pattern technology exercises.
Graded on a scale from 1 to 5.

Study materials

Information to be provided at the beginning of the course.

Multi-faceted design 16 ECTS

Module-specific learning outcomes

Students
- have widened their skills required in the design process
- understand various approaches to design
- know the principles of user-centred design
- understand the significance of ecological and commercial points of departure in design
- can assess design projects from the point of view of materials and manufacturing technology.

05MUOPRO DESIGN PROCESS 4 ECTS

Learning outcomes

Students
- understand the design process from the basis of culture and costume history
- understand various approaches to fashion design (communicative and design-related functions)
- show improved understanding of materials and manufacturing.

Contents

Students familiarise themselves with the development of clothing, interpreting the meanings related to clothing and clothing communication both in Finland and around the world.

Methods and assessment

Lectures, museum visits. A workbook on fashion history. Assignment.
Graded on a scale from 1 to 5.

Study materials

Broby-Johansen. 1968. Body and Clothes. Reinhold.
Craik. 1963. The Face of Fashion du Roselle. Harward University Press.
Bruno. 1980. La Mode. Impr. Nationale.
Contini. 1965. Modet genom tiderna. (In Swedish)
Milbank. 1985. Couture. Stewart, Tabori & Chang.

05KÄYTMU USER-CENTRED DESIGN 4 ECTS

Learning outcomes

Students
- know the principles of user-centred design
- understand the role of research methods in user-centred design

- know how to create an industrially manufactured collection.
- understand the significance of the brand and the target group in collection design.

Contents

Basics and methods of target group oriented design. Basics of concept design and various existing definitions.

Methods and assessment

Lectures. Assignment (must be passed). Integrated with pattern technology exercises.
Graded on a scale from 1 to 5.

Study materials

Information to be provided at the beginning of the course.

05YMPMU ECO-EFFICIENT DESIGN 3 ECTS

Learning outcomes

Students

- understand the principles of environmental efficiency and ethics
- understand the special characteristics of the development of eco-efficient products
- understand environmental efficiency as part of the design process.

Contents

Principles of environmental efficiency. Focus areas include applied research, environmentally friendly materials, new technologies, business competence and project management. Eco-efficient and ethical product development.

Methods and assessment

Lectures. Assignment (must be passed).
Graded on a scale from 1 to 5.

Study materials

Information to be provided at the beginning of the course.

05PÄÄTUOP2 SUPPORTING MAJOR STUDIES 2, 5 ECTS

Learning outcomes

Students
- show improved competence during professional special courses.

Contents

Complementary studies fulfilling the development needs of the group.

Methods and assessment

Projects, workshops and lectures.

Materials

Information to be provided at the beginning of the course.

Product development and the designer 19 ECTS

Module-specific learning outcomes

Students
- understand the principles of interaction between the client and the designer
- can independently manage industry partnership projects related to their studies
- know how to collect and independently analyse relevant background information as part of the design project
- know how to collaborate with various people and functions involved in product development, such as marketing and technical product development
- know how to operate in a multi-cultural environment.

05FUNTIO FUNCTIONAL PRODUCT DEVELOPMENT PROCESS 4 ECTS

Students
- understand the principles of product development processes
- demonstrate improved design process management skills in an industry partnership project.
- understand the need-based design process.

Contents

Principles of the product development process. Familiarisation with functional design.

Methods and assessment

Lectures. Assignment.
Graded on a scale from 1 to 5.

Study materials

Information to be provided at the beginning of the course.

05FUVAATE FUNCTIONAL FASHION DESIGN, RESEARCH AND KNOWLEDGE 4 ECTS

Learning outcomes
Students
- are familiar with the use and analysis of various research methods applied in product development
- understand the principles of research and its role as part of product development
- know how to apply clothing physiology and ergonomics in the design of functional clothing
- know how to use environmentally friendly materials.

Contents
Research methods as part of problem-oriented product development. Basics of research.
Basics of clothing physiology and ergonomics.
Methods and assessment
Lectures. Gathering and applying information in the student's own work. Assignment (must be passed). Integrated with pattern technology exercises.
Graded on a scale from 1 to 5.
Materials
Information to be provided at the beginning of the course.

05PROHALL PROJECT MANAGEMENT 3 ECTS

Learning outcomes
Students
- know the general principles of project management from the point of view of design
- are familiar with various project management methods
- know how to schedule their own work
- know how to phase a design project and to resource as part of product development.

Contents
Principles and methods related to projects. Industry partnership project.
Methods and assessment
Lectures. Participation in the partnership project. Critique discussion summing up the contents.
Graded on a scale from 1 to 5.
Materials
Information to be provided at the beginning of the course.

05MUOTIFIL DESIGN AND THE PHILOSOPHY OF FASHION 4 ECTS

Learning outcomes
Students
- recognise the communicative meanings of clothes
- recognise the influence of cultural traits in clothing
- know how to apply subcultural phenomena in design.

Contents
Philosophy of fashion. Clothing culture and analysis of communication through clothing.
Methods and assessment
Lectures and assignments.
Graded on a scale from 1 to 5.
Materials
Information to be provided at the beginning of the course.

05PÄÄTUOP3 SUPPORTING MAJOR STUDIES 3, 4 ECTS

Learning outcomes
Students
- show improved competence during professional special courses.

Contents
Complementary studies fulfilling the development needs of the group.
Methods and assessment
Projects, workshops and lectures.
Graded on a scale from 1 to 5.

Materials
Information to be provided at the beginning of the course.

Professional profile 10 ECTS

Module-specific learning outcomes
Students
- understand the significance of product development in a company's operational strategy
- are aware of the influence of future changes in a company's product development strategy
- recognise their personal strengths as designers
- understand the opportunities and risks related to entrepreneurship in design.

05MUOTIDEN DESIGNER IDENTITY 3 ECTS

Learning outcomes
Students
- understand the significance of professional profiling and identity from the point of view of the industry
- have created recognisable professional profiles for themselves
- understand the special features of alternative operational environments for professional designers.
- understand the role of design as a strategic factor in business.

Contents
Characteristics and development of professional identity. Introduction to the working world.
Strategic operation of a company and the role of product development.
Methods and assessment
Lectures. Portfolio. Company visits. Evaluation session summing up the topics.
Pass/fail.
Materials
Information to be provided at the beginning of the course.

05TULEVTUT FUTURES RESEARCH 3 ECTS

Learning outcomes
Students
- understand the principles of futures research and know how to apply them in the design process
- know how to use knowledge from futures research when anticipating consumers' needs in the future.
- know how to apply new design techniques
- recognise the role of new material and production technology in product development.

Contents
Principles of futures research. New design methods, new material and production technologies.
Methods and assessment
Lectures. Workshop and partnership project.
Graded on a scale from 1 to 5.
Materials
Information to be provided at the beginning of the course.

05PÄÄTUOP4 SUPPORTING MAJOR STUDIES 4, 4 ECTS

Learning outcomes
Students
- show improved competence during professional special courses.

Contents
Complementary studies fulfilling the development needs of the group.
Methods and assessment
Projects, workshops and lectures.
Graded on a scale from 1 to 5.
Materials
Information to be provided at the beginning of the course.

From a fibre to a fabric 6 ECTS

Module-specific learning outcomes
Students
- are familiar with the manufacturing methods of flat textile structures made of various raw materials
- understand the influence of different raw materials, structures, dyeing and treatment techniques in the creation of clothing materials
- are aware of the environmental factors in the fibre–to-fabric production chain.

05RAAKAEKO RAW MATERIALS, TEXTILE ECOLOGY 3 ECTS

Learning outcomes
Students
- know the physical, chemical and biological characteristics of textile fibres
- know the basics of key manufacturing techniques, uses and care of fibres
- know how to compare the advantages and disadvantages of different fibre production methods in environmental terms.

Contents
Classification and names of fibres; characteristics and structures of textile fibres; history of fibres; fibre research; and fibres of the future.
Methods and assessment
Active participation in contact education; seminar presentation; exam.
Graded on a scale from 1 to 5.
Materials
Boncamper, I. 2004. Tekstiilioppi kuituraaka-aineet. 2nd edition. Hämeen ammattikorkeakoulu, Hämeenlinna.

05TEKSRAK TEXTILE STRUCTURES 3 ECTS

Learning outcomes
Students
- know about the manufacturing techniques of yarns and flat textile structures
- understand yarn numbering
- know key weaves and markings related to woven and knitted flat textile products
- know trade names for the most common clothing materials.

Contents
Structures and manufacturing techniques of yarns and flat textile products and their influence on the technical qualities of a clothing item
Methods and assessment
Active participation in contact education; seminar presentation; exam.
Graded on a scale from 1 to 5.
Materials
Information to be provided at the beginning of the course.

Textile printing 5 ECTS

Module-specific learning outcomes
Students
- are familiar with textile printing
- know about various printing techniques
- know how to design patterns
- know how to make stencils
- know how to use dyes
- understand the environmental factors involved in the production process
- know how to professionally treat fabrics.

05PAISUU PRINTED TEXTILES DESIGN 6 ECTS

Learning outcomes
Students
- are familiar with making stencils and exposure technique
- are familiar with synthetic and natural dyes such as pigment, reactive, mineral and vegetable dyes
- know how to create individual and repeating patterns and choose the correct printing methods according to material and use
- understand the financial and environmental influences of textile chemistry.

Contents
Design assignment. Short introductions and supervised workshops. The tasks can be integrated with Fashion Design assignments.
Methods and assessment
Compulsory attendance. Feedback sessions.
Graded on a scale from 1 to 5.
Materials
Handouts. Forss, Maija, 2000. Värimenetelmät. Helsinki: Taideteollinen korkeakoulu.

Material technology and research 6 ECTS

Module-specific learning outcomes
Students
- know special textile printing methods
- know special textile dyeing methods
- know key treatments
- know how textiles are tested.

05ERIKMATMU SPECIAL PRINTING METHODS AND MATERIAL TREATMENTS 4 ECTS

Learning outcomes
Students
- are familiar with special methods such as etching and burning
- are familiar with treatment methods such as crêpe and silicone
- know how to creatively use textiles in their designs.

Contents
Design assignment. Supervised workshops.
Methods and assessment
Compulsory attendance. Workshops. Feedback sessions.
Graded on a scale from 1 to 5.
Materials
Handouts, online materials. Information to be provided at the beginning of the course.

05TEKSTES TEXTILE MATERIAL TESTING 2 ECTS
Learning outcomes
Students
- recognise the importance of testing for the industry and the user
- know about physical, chemical, biological and textile performance qualities and how they are defined and measured.

Contents
Laboratory equipment. Supervised workshops. Textile testing.
Methods and assessment
Compulsory attendance. Testing in laboratory.
Graded on a scale from 1 to 5.
Materials
Handouts, online materials. Information to be provided at the beginning of the course.

Introduction to pattern and manufacturing technology 6 ECTS

Module-specific learning outcomes
Students
- understand the structure and sizing system of basic womenswear patterns
- are familiar with seam structures
- pattern and create, under supervision, a product they have designed
- know how to safely use the machinery and tools of the school sewing workshop.

05KAAVTEPE INTRODUCTION TO PATTERN TECHNOLOGY 4 ECTS

Learning outcomes
Students
- understand the structure and sizing system of basic womenswear patterns (dress, skirt, trousers)
- know how to choose the correct basic pattern for their product

- know the basics of adapting basic patterns
- under supervision, adapt the pattern and create a product they have designed in Design process 1.

Contents

Sizing system and basic patterns in womenswear. Seam structures and detailing methods. Adapting patterns. Patterning the product designed during Design process 1.

Methods and assessment

Lectures and assignments. Individual tutoring.
Graded on a scale from 1 to 5.

Materials

Information to be provided at the beginning of the course.

05VALMPER INTRODUCTION TO MANUFACTURING TECHNOLOGY 2 ECTS

Learning outcomes

Students
- know how to safely use the machinery and tools of the school sewing workshop
- are familiar with seam structures and know how to draw their cross-sections
- know how to manufacture a product of their design.

Contents

Familiarisation with the sewing workshop tools and machines. Learning how to use the sewing machines through hands-on assignments.
Seam structures and detailing methods. Sewing exercises. Manufacturing the product designed during Design process 1.

Methods and assessment

Lectures and assignments. Individual tutoring.
Graded on a scale from 1 to 5.

Materials

Information to be provided at the beginning of the course.

Advanced pattern and manufacturing technology 7 ECTS

Module-specific learning outcomes

Students
- know how to pattern casual womenswear and menswear
- pattern and create, under supervision, a product they have designed
- know how to use the school's sewing workshop machines.

05SYVKAAVAT ADVANCED PATTERN TECHNOLOGY 5 ECTS

Learning outcomes

Students
- know the basics of patterning casual womenswear and menswear
- know how to pattern lined jackets and coats
- know how to pattern trousers and create details
- know how to pattern a garment set they have designed under supervision.

Contents

Familiarisation in menswear sizing and patterning and advanced knowledge of womenswear patterning. Patterning exercises with a focus on women's trousers, jackets and coats. Patterning and manufacturing a garment set.

Prerequisites

Introduction to pattern and manufacturing technology, or corresponding competence.

Methods and assessment

Lectures and assignments. Individual tutoring.
Graded on a scale from 1 to 5.

Materials

Information to be provided at the beginning of the course.

05SYVVALMT ADVANCED MANUFACTURING TECHNOLOGY 2 ECTS

Learning outcomes

Students
- are familiar with industrial manufacturing processes and machinery
- know how to manufacture a garment set they have designed under supervision

- know how to choose adhesive fabric and attach it to a product
- know how to use the school's sewing workshop machines and tools.

Contents

Familiarisation with industrial clothing manufacturing processes.
Familiarisation with manufacture problems related to materials.

Prerequisites

Introduction to pattern and manufacturing technology, or corresponding competence.

Methods and assessment

Lectures and assignments. Individual tutoring. Industry visits.
Graded on a scale from 1 to 5.

Materials

Information to be provided at the beginning of the course.

Pattern and manufacturing technology of special products 7 ECTS

Module-specific learning outcomes

Students
- demonstrate a deeper understanding of industrial clothing manufacturing processes, with a focus on manufacture ordering and acquisition
- are familiar with the patterning and manufacture of functional clothing
- pattern and manufacture, under supervision, a product/garment set they have designed in Functional fashion design.

05ERIKAAVA PATTERNING SPECIAL PRODUCTS 5 ECTS

Learning outcomes

Students
- are familiar with the patterning and manufacture of functional clothing
- pattern and manufacture, under supervision, a product/garment set they have designed in Functional fashion design.

Contents

Familiarisation with the sizing and patterning of functional clothing and new technical structures. Patterning exercises with a focus on functional clothes and their details. Patterning and manufacturing a product/garment set designed in Functional fashion design.

Prerequisites

Advanced pattern and manufacturing technology.

Methods and assessment

Assignments. Individual tutoring.
Graded on a scale from 1 to 5.

Materials

Information to be provided at the beginning of the course.

05ERIKVALM SUBCONTRACTING AND OUTSOURCING 2 ECTS

Learning outcomes

Students
- know how to have their products manufactured
- know how to source manufacturing from other countries
- are familiar with internationalisation in business life
- know how to communicate in other languages with international partners.

Contents

Familiarisation with subcontracting and outsourcing. Students learn about international activities in the fashion industry and manufacturing in other countries. They learn how to communicate in a foreign language with overseas partners.
Topics include:
- internationalisation
- subcontracting abroad
- providing instructions for manufacture abroad.

Prerequisites

Advanced pattern and manufacturing technology.

Methods and assessment

Assignments. Individual tutoring.
Lectures, industry visits.
Graded on a scale from 1 to 5.

Materials
Information to be provided at the beginning of the course.

Independent pattern design 7 ECTS

Module-specific learning outcomes
Students
- know how to design and pattern garment sets part of their thesis
- understand the requirements of materials in patterning

05OPINKAAVA PATTERNING THESIS GARMENTS 7 ECTS

Learning outcomes
Students
- are familiar with the basic patterns of the product types involved in their thesis
- know how to independently solve problems related to design
- understand the requirements of various materials in patterning.

Contents
Deepening skills in pattern making in the fields of design and shaping to contribute the thesis work.
Prerequisites
Earlier pattern and manufacturing technology courses.
Methods and assessment
Individual tutoring.
Graded on a scale from 1 to 5.
Materials
Information to be provided at the beginning of the course.

Design documentation 13 ECTS

Module-specific learning outcomes
Students
- know how to visually illustrate and present the various phases of the design process
- recognise the significance of personal performance in a presentation situation
- recognise the significance of research and process documentation
- are familiar with the software required in producing presentation materials
- know how to use digital technology in documentation
- understand the basic communication tools and visual communication practices in their field.

05DIGTOIMI DIGITAL ENVIRONMENTS AND HARDWARE 1 ECTS

Learning outcomes
Students
- are familiar with the university's hardware and data systems
- know the basics of using a digital camera and know how to scan prints, slides, materials and small items with flatbed and slide scanners
- know how to use the university's laser printers.

Contents
IT hardware and peripherals, data networks, saving methods and common practices. Digital presentation materials. Basics of digital imaging. Printing practices and materials.

Methods and assessment
Participating in lectures and contact tutoring. Passed assignment or skills test.
Graded on a scale from 1 to 5.

Materials
Information to be provided at the beginning of the course.

05MUOPIIR DESIGN DRAWING 4 ECTS

Learning outcomes
Students
- know how to create freehand images of their ideas and designs
- know how to create and interpret technical drawings

- understand the significance of presentation techniques in conveying design ideas.

Contents

Practicing drawing both for creating and understanding forms. The course focuses on freehand drafting, ideation and skills required in technical drawing. Mastering basic methods, tools and equipment through drawing and experimenting with presentation drawings. Basics of freehand drawing and sketching.

Methods and assessment

Lectures and contact education. Acceptably completed assignment portfolio. Graded on a scale from 1 to 5.

Materials

Information to be provided at the beginning of the course.

05OHJMUVA SOFTWARE 5 ECTS

Learning outcomes

Students

- know the basics and principles of graphic design required in the field
- are familiar with image editing, vector graphics and layout software required in producing presentation materials
- know how to produce simple digital presentations.

Contents

Basics of Adobe Photoshop, Illustrator and InDesign. Content-related basics of presentation graphics. MS PowerPoint as the designer’s presentation tool. If applicable, students may produce materials to support their major subject assignments.

Methods and assessment

Attendance in lectures and contact education, supervised assignments. Learning portfolio or skills test.
Graded on a scale from 1 to 5.

Materials

Software manuals; detailed information to be provided at the beginning of the course.

05DIGIMUOTI DIGITAL FASHION ILLUSTRATION 3 ECTS

Learning outcomes

Students

- know how to use Adobe Photoshop and Illustrator for illustrating fashion design images with a digital drawing board and pen
- know how to combine scanned freehand drawings and material samples and digital materials into impressive collages
- know how to create simple 2D technical drawings of garments with Adobe Illustrator
- know how to use Pantone Textile (TPX) colour library.

Contents

Using digital drawing board. Adobe Photoshop andIllustrator as a fashion designer’s tools.

Methods and assessment

Attendance in contact education, supervised assignments. Evaluated assignments or skills test. Graded on a scale from 1 to 5.

Materials

Software manuals; detailed information to be provided at the beginning of the course.

Design presentation 1, 13 ECTS

Module-specific learning outcomes

Students

- understand the role of visual expression as the designer's instrument
- know the basics of product photography
- know how to apply the basics of advertising and information-related graphics
- know how to create a presentation event consisting of multiple forms
- demonstrate CAD and graphic software skills needed for creating presentation materials
- are able to make their visual communication skills and knowledge part of their routine
- can create a portfolio presenting the results and processes of their work.

05MUOTPORT DESIGNER’S PORTFOLIO 2 ECTS

Learning outcomes

Students

- can create a portfolio presenting their work
- understand the requirements and cost structures of printing processes
- know about various printing materials.

Contents

The contents and objectives, presentation forms and formats of a designer's portfolio and their industrial and cultural differences. International presentation methods for designers. Graphic printing technology. The influences of the image, illustration, colour and typography in communicative expression.

Methods and assessment

Participation in lectures and contact tutoring. Passed learning journal.
Graded on a scale from 1 to 5.

Materials

Information to be provided at the beginning of the course.

05ESTEKMUOP DESIGN DRAWING AND PRESENTATION TECHNIQUES 2 ECTS

Learning outcomes

Students
- demonstrate deeper skills in the visual field and presentations they gained the previous year
- know how to produce detailed freehand image collections of their designs
- know the possibilities and limitations of freehand presentation techniques
- demonstrate basic professional visual expression skills.

Contents

Improving and polishing the presentation technique skills gained during the previous module.

Methods and assessment

Participation in lectures and contact tutoring; passed portfolio.
Graded on a scale from 1 to 5.

Materials

Information to be provided at the beginning of the course. Examples of course literature:

05MUODIGIVK DIGITAL PHOTOGRAPHY FOR THE DESIGNER 2 ECTS

Learning outcomes

Students
- know how to produce and use photographs in design presentations
- know the basics of studio photography.

Contents

Creative photography and photography technology. A studio photography workshop during which students become familiar with such topics as the basics of digital product photography and visual documentation.

Methods and assessment

Participation in the workshop and lectures. Passed assignments. Critique discussion summing up the contents.
Graded on a scale from 1 to 5.

Materials

Information to be provided at the beginning of the course.

05KÄYOHJ GRAPHIC SOFTWARE, 4 ECTS

Learning outcomes

Students
- show improved skills in graphic software
- can produce simple product sheets
- can design, produce and create a layout for a portfolio presenting the results and processes of their work.

Contents

Advanced skills in Adobe Photoshop, Illustrator and InDesign. Creating PDF presentations. If applicable, students may produce materials to support their major subject assignments.

Methods and assessment

Participating in lectures and contact education. Passed assignments or skills tests. Graded on a scale from 1 to 5.

Materials

Software manuals; detailed information to be provided at the beginning of the course.

05ADOBESYV ADVANCED ADOBE ILLUSTRATOR 3 ECTS

Learning outcomes
Students
- know how to use Adobe Illustrator to create digital module libraries of garments
- know how to create detailed technical drawings
- know how to create repeated patterns with Photoshop and Illustrator and manage colour separation.

Contents
Creating module libraries of garments with Adobe Illustrator. Creating details with vectors tools, using symbols and special brushes. Creating and using continuous fills (patterns) with Adobe Photoshop and Illustrator.

Methods and assessment
Attendance in contact education, supervised assignments. Evaluated exercises or skills test.
Graded on a scale from 1 to 5.

Materials
Software manuals; detailed information to be provided at the beginning of the course.

Design presentation 2, 7 ECTS

Module-specific learning outcomes
Students
- can communicate in their own individual way
- can conduct themselves naturally and confidently in various situations
- know how to choose the appropriate professional presentation method and technique.

05KÄYTMUL PRACTICAL GRAPHIC DESIGN AND MULTIMEDIA 4 ECTS

Learning outcomes
Students
- know the basics of GUI design
- know how to produce simple multimedia presentations
- know how to produce product graphics supporting a given product.

Contents
The course focuses on reinforcing the students' personal vision. They extend their expression to multimedia and corresponding tools. They also improve their presentational skills in order to be able to give natural, clear and professional presentations. Students deepen their design skills through familiarisation with the issues related to graphic design, such as communication through user interfaces, product graphics and colour.

Methods and assessment
Lectures and supervised assignments. If applicable, students may produce materials to support their major subject assignments.
Graded on a scale from 1 to 5.

Materials
Software manuals; detailed information to be provided at the beginning of the course.

05DIGIVIES DIGITAL COMMUNICATION 3 ECTS

Learning outcomes
Students
- know how to use Adobe Flash and Dreamweaver templates
- know how to create animations with Adobe Flash
- know how to create a website with different types of content.

Contents
Basics of Adobe Flash and Dreamweaver. Using and adapting templates. Flash animations. Creating a basic website with Dreamweaver using one's own materials. Creating Cascading Style Sheet (CSS) files.

Methods and assessment
Attendance in contact education, supervised assignments. Evaluated website.
Graded on a scale from 1 to 5.

Materials
Software manuals; detailed information to be provided at the beginning of the course.

Elective studies 15 ECTS

Module-specific learning outcomes

Students
- have advanced their professional skills through supplementary studies
- have improved their general knowledge.

Contents and method of completion

Students can choose courses from the elective courses offered by the Institute of Design and Fine Arts and the entire university. Elective studies may also include courses taken at other institutions of higher learning, provided that they are suitable for the profile of the student's major subject.

05VVFOTO FASHION PHOTOGRAPHY 3 ECTS

Learning outcomes

Students
- know the basics of fashion photography
- know how to style for a shoot
- know how to create a team of professionals such as models, make-up artists and hair stylists.
- know how to design a shoot.

Contents

Participation in a fashion photography workshop.

Methods and assessment

Participation in a workshop. Students design and shoot fashion photography according to chosen themes.
Graded on a scale from 1 to 5.

Materials

Information to be provided at the beginning of the course.

05VVTEOLNEU INDUSTRIAL KNITWEAR DESIGN 3 ECTS

Learning outcomes

Students
- know how to design digitally
- know the operation and potential of industrial knitwear machines
- know how to design an industrially manufactured knitwear collection
- know the materials used by the industry.

Contents

Students deepen their professional skills in industrial knitwear design and familiarise themselves with CAD in knitwear design. They learn about designing a knitwear collection for industrial production: choosing materials, building a collection and producing presentation and collection pictures. The course can be integrated into topical fashion design assignments or projects.

Methods and assessment

Lectures, introductory sessions, assignments, company visits, collection portfolio, individual supervision.
Graded on a scale from 1 to 5.

Materials

Assigned literature, professional magazines.

0724TE703 TEXTILE ECOLOGY AND ETHIC ISSUES 3 ECTS

Learning outcomes

Students
- understand the principles of sustainable development
- are aware of the environmental impacts of textile and fashion industry and the use and disposal of products
- know how to compare the environmental advantages and disadvantages of different production and manufacturing methods
- know the most common environmental labels in the industry
- know how to seek more information about control systems and criteria related to ethical issues.

Contents

Sustainable development, climate change. Environmental impacts of the industry, life cycle of textiles and garments, environmental labels, consumer responsibility, ethical responsibility.

Methods and assessment

Lectures, distance education, assignments, exam.

Materials

Talvenmaa, P. 1997. Tekstiilit ja ympäristö. Tekstiili- ja vaatetusteollisuus ry. Online and lecture materials.

PROFESSIONAL PRACTICE 30 ECTS

The degree includes 30 ECTS credits of professional practice, half of which (15 ECTS) are completed through participating in supervised industry partnership projects taking place during the student's terms of study, and half (15 ECTS) through internships at suitable companies in Finland and abroad.

Learning outcomes

Students

- are familiar with practical tasks essential to professional studies and know how to apply their skills and knowledge in the working world under supervision.

Methods and assessment

The scope of internships is 15 ECTS, which equals 10 work weeks with 40 weekly work hours. It is necessary to submit a report on the internship and a certificate of employment to the principal teacher to acquire the credits. Further information on professional practice is provided during the spring term. Pass/fail.

THESIS 15 ECTS

Learning outcomes

The thesis shows that the student knows the design process and related practices in their profession, and shows competence in their visual and written expression. The thesis shows the student's ability to apply their skills and knowledge, their familiarity with design and research methods, and their problem-solving skills in their respective field.

Contents

The thesis is a supervised design project or a body of work carried out independently or collaboratively. Its aim is to improve the student's professional skills and contribute to the field in general. The thesis always includes a written report. The thesis project is supported by mandatory seminars and a maturity test.

Prerequisites

Before starting the thesis, the student must have completed all basic studies and most professional studies.

Methods and materials

At the Institute of Design, the thesis comprises a design for a product, collection, or space, or a completed body of work, and a written report.

In order to complete the degree, the student must participate in seminars (topic, intermediate, completion) presenting their project, and must take the maturity test. Detailed instructions for the thesis (applicable to the entire university and to the Institute of Design specifically) and related materials are available on the students' intranet.

Assessment

The thesis is always evaluated as a process, from choosing the topic to presenting the outcome. Graded on a scale from 1 to 5. Detailed information on the assessment of an artistic and practical thesis is available on the students' intranet.

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