

Curriculum at Lahti University of Applied Sciences 2018-2019

Your Combo - Complementary competence courses available 2018-2019 (Bachelor's)

Code	Name	1 y	ECTS total
LATO18-1000	LAMK multidisciplinary modules available		368
LATO18-1001	DigiWay		0
LA00BM20	Digital Services		0
LA00BM21	Frontend	15	15
LA00BM22	Backend		0
LATO18-1002	Circular Economy I		15
TE00BG85	Sustainable Community and Environment	5	5
TE00BG86	Responsible Business and Design	5	5
TE00BG87	Circular Economy I - Development Project	5	5
LATO18-1003	Circular Economy II		15
TE00BR09	Responsible Materials Technology and Product Development	5	5
TE00BG90	Sustainable Energy Economy and Logistics	5	5
TE00BG89	Circular Economy II - Development Project	5	5
LATO18-1004	Circular Economy III		15
LI00BJ61	NY Start Up		0
LI00BJ62	Student cooperatives and associations		0
LATO18-1005	Service Design learning package		45
MI00AZ88	User driven design and the basics of Service Design		0
MI00AZ89	Service Design methods for designing a new service concept		0
MI00AZ90	Service Design project		0
LATO18-1006	Startup Activities		15
LI00BJ61	NY Start Up		0
LI00BJ62	Student cooperatives and associations		0
LATO18-1007	Module 1 CREW		15
LI00BJ73	The world of events		0
LI00BJ76	Event Project 1		0
LATO18-1008	Module 2 BACKSTAGE		15
LI00BJ74	From idea into event concept		0
LI00BJ79	Event Project 2		0
LATO18-1009	Module 3 ACCESS ALL AREAS		15
LI00BJ75	Event manager skills		0

LI00BJ81	Event project 3		0
LATO18-1104	Oppiminen hankkeissa ja toistuvissa projekteissa		0
LA00BR30	Working in a project - DigiManufacturing	5	5
LA00BR31	Working in a Project - DuuniExpo		0
TE00BR60	Energy and enviromental technology project applications	5	5
TE00BR61	Working in a project - Kiemura	5	5
TE00BR76	Community planning application projects	5	5
TE00BR78	Working in a project - IWAMA, Waste water technologies	5	5
LA00BS34	Working in a project - TAJUMO		0
LA00BS35	Working in a project - REHOME		0
LA00BS36	Working in a project - PALMA		0
LA00BS37	Working in a project - KUPARI		0
LA00BS38	Working in a project - Puusta pidemmälle (Wood industry sector development project)		0
LA00BS39	Working in a project - Culture Tourism for City Breakers CTC		0
MI00BS40	Working in a project - Design Studio Simulation		0
LA00BS46	Working in a Project - Campus Guide		0
LATO18-1010	Working in a Project		15
KE00BE10	Working in a Project 1	5	5
KE00BE11	Working in a Project 2	5	5
KE00BE12	Working in a Project 3	5	5
LATO18-1011	Working in a Project		15
KE00BE20	Working in a Project 1		0
KE00BE21	Working in a Project 2		0
KE00BE22	Working in a Project 3		0
LATO18-1012	Event organizing skills		15
LA00BN62	Event organizing skills 1		0
LA00BN63	Event organizing skills 2		0
LA00BN64	Event organizing skills 3		0
LATO18-1013	Preparatory studies		21
LA00BH85	Preparatory studies in English		0
LA00BH86	Preparatory studies in Swedish		0
LA00BI95	Preparatory studies in Finnish		0
LA00BH89	Preparatory studies in mathematics, Faculty of Technology		0
LA00BH90	Preparatory studies in mathematics, Faculty of Business and Hospitality Management		0
LA00BF19	Finnish for Foreigners 1		0
LA00BQ27	Basics of Electrical Engineering		0
LATO18-1014	NASA Epic Challenge		15
TE00BE31	NASA Epic Challenge	5	5

TE00BM31	NASA Epic Challenge Concept Development	10	10
LATO18-1015	Tutoring		19
KE00BA48	Peer Tutoring		0
LA00BN60	Peer Tutoring		0
KE00BA47	International tutoring		0
KE00BA49	International tutoring		0
KE00BD84	Head Tutoring		0
LA00BN61	Head Tutoring		0
LA00BQ94	Tipsit – Peer Support Activity		0
LATO18-1016	Student as a developer of higher education		20
LA00BM52	Quality developer in higher education		0
LA00BN96	LAMKPromo		0
LA00BO30	Project for developing services		0
LA00BO28	Project for developing services		0
LATO18-1017	Developing Intercultural Competence		0
LA00BQ29	Intercultural Awareness		0
LA00BQ30	Multicultural Teamwork and Leadership		0
LA00BQ31	Intercultural Competence Training		0
LA00BM39	International intensive week		0
TE00BE69	Winter School / Circular economy and Life cycle thinking		0
LATO18-1018	Luonnosta hyvinvointia ja liiketoimintaa		0
LA00BQ24	Luonnosta hyvinvointia ja liiketoimintaa	5	5
LA00BQ25	Luonnon hyvinvointipalveluiden konseptointi	5	5
LA00BQ26	Luonnon hyvinvointipalveluiden pilotointi	5	5
LATO18-1019	Individual courses, which are not included in any of the modules		23
KE00BD02	Supporting the studies		0
LA00BN72	LAMK Sports' learning environment		0
LA00BN59	Advanced Research Methods		0
LA00BN97	Advanced Research Methods		0
LA00BN57	The e-learning module on online job hunting		0
LATO18-1117	Sportfolio-opinnot		15
LA00BS60	Sportfolio		0
LA00BS70	Sportfolio-opinnot 2		0
LA00BS71	Sportfolio-opinnot 3		0
LATO18-1020	Modules of Faculty of Business and Hospitality Management available		615
LATO18-1022	Management and operation of the workplace		15
LI00BH92	Workplace Skills		0
LI00BH93	Manager's Toolkit		0
LI00BH94	Employment Regulations		0

LATO18-1023	People – the makers of success	15
LI00BH95	Human Resource Management	0
LI00BH96	Diversity as an Organisational Asset	0
LI00BH97	A Healthy and Responsible Organisation	0
LATO18-1024	Strategic management	15
LI00BH98	Management Trends	0
LI00BH99	Strategic management	0
LATO18-1025	Good practices in financial reporting	15
LI00BI00	Bookkeeping and Balancing the Books	0
LI00BI01	Preparing Annual Financial Statements	0
LI00BI02	Financial Statement Analysis and Auditing	0
LATO18-1026	Taxation and financial statement planning	15
LI00BI03	Value-added Taxation	0
LI00BI04	Corporate Taxation and Financial Statement Planning	0
LI00BI05	Payroll Accounting and Personal Taxation	0
LATO18-1027	Management accounting	15
LI00BI06	Financial Planning and Monitoring	0
LI00BI07	Cost Accounting and Pricing	0
LI00BI08	Accounting to Support Business Decisions	0
LATO18-1028	Financing and investment activities	15
LI00BI09	Financial Markets	0
LI00BI10	Savings and Investments	0
LI00BI11	Managing Funding Risks	0
LATO18-1029	Financial Management	15
LI00BI12	Management Accounting	0
LI00BI13	Corporate Finance	0
LI00BI14	Financial Planning	0
LATO18-1030	Digital Marketing	15
LI00BI15	Digital Marketing	0
LATO18-1031	Customer Relationship and Sales Management	15
LI00BI17	Customer Relationship Management	0
LI00BI18	Customer Experience	0
LI00BI19	Customer Acquisition and Service Encounter	0
LATO18-1032	Retail chain management	0
LI00BI22	Retail Business Models and Marketing	0
LI00BI23	Departmental HR and Sales Management	0
LI00BI24	Retail Business Indicators and Management	0
LATO18-1033	Building and launching a brand	15
LI00BI20	Brand Building and Launch	0
LI00BI21	Production of Communication Material	0

LATO18-1034	International Logistisc Services		0
LI00BI25	Transport and Forwarding		0
LI00BI26	Operational Environment in International Trade		0
LI00BI17	Customer Relationship Management		0
LI00BI18	Customer Experience		0
LI00BI19	Customer Acquisition and Service Encounter		0
LATO18-1035	Supply Web Development		15
LI00BI28	Supply Network Development Tools		0
LI00BI29	SAP ERP System		0
LI00BI30	Lean Thinking and Optimisation		0
LATO18-1036	Procurement		15
LI00BI31	Procurement Management and Development		0
LI00BI32	Public Contracts		0
LI00BI33	Current and Future Trends of Supply Chain		0
LATO18-1037	International Supply Chain Management		0
LI00BI34	Procurement & Production Operations Management and Development		0
LI00BI35	Distribution Management and Development		0
LI00BI33	Current and Future Trends of Supply Chain		0
LATO18-1038	Supply Web Development		15
LI00BI36	Toolkit for Supply Chain Development		0
LI00BI37	SAP ERP Systems		0
LI00BI38	Supply Chain Optimisation and Lean Thinking		0
LATO18-1039	Commercialisation competence		15
LI00BI39	Creating Service Concepts		0
LI00BI40	Mass Customisation and User-Centeredness		0
LI00BI41	Differentiation - Competitive Edge through Diversification		0
LATO18-1040	Service competence		15
LI00BI42	Service Concepts		0
LI00BI43	Changes in Consumer Behaviour		0
LI00BI44	Developing Customer Service Skills		0
LATO18-1041	Opportunities in services		15
LI00BI45	Service Processes in the Public Sector		0
LI00BI47	Processes and Information Systems in Social and Health Care		0
LI00BI48	Digitality in Industrial Services		0
LI00BJ56	Health Care Logistics		0
LATO18-1042	Leisure and Well-Being Services		15
LI00BI49	International Tourism and Leisure Industry		0
LI00BI50	Leisure in Rural Areas		0
LI00BI51	User-Orientation in Leisure and Well-Being Experiences		0

LATO18-1043	Software business		15
LI00BI52	Software Development Process		0
LI00BI53	Software Productisation		0
LI00BI54	Business Environment in Software Industry		0
LATO18-1044	Business Intelligence		20
LI00BI55	Data Streams in Business		0
LI00BR37	Data Streams in Business		0
LI00BS44	Data-analytiikka		0
LI00BI57	Effective Use of Office Applications		0
LATO18-1045	Competitive Edge through Information Systems		15
LI00BI58	Digital Strategy		0
LI00BI59	Enterprise Architecture		0
LI00BI60	Software Procurement and Deployment		0
LATO18-1046	Getting the Most from Online Business		15
LI00BI61	Online Business		0
LI00BI62	Online Store Solutions		0
LI00BI63	Setting up and Developing an Online Store		0
LATO18-1047	Customer Experience Development		15
LI00BI64	Customer Experience		0
LI00BI65	Measuring Customer Experience		0
LI00BI66	Future Customer Paths		0
LATO18-1048	IT Project		15
LI00BI68	Project Communication and Reporting		0
LI00BI69	Real-Life IT Project and Practices		0
LATO18-1049	English Business Communication		15
LI00BI70	English in Professional Contexts		0
LI00BI71	Techniques and Tools for Writing		0
LI00BI72	Persuasive Communication		0
LATO18-1050	Swedish Language Courses		15
LI00BI73	Swedish for the Workplace		0
LI00BI74	Current Issues in Business World in Swedish		0
LI00BI75	Swedish Oral Skills		0
LATO18-1051	German Language Courses		15
LI00BI76	Refresher Course in German		0
LI00BI77	German for the Workplace 1		0
LI00BI78	German for the Workplace 2		0
LATO18-1052	Russian Language Courses		15
LI00BI79	Russian Basics 1		0
LI00BI80	Russian Basics 2		0
LI00BI81	Russian for Business Communication		0

LATO18-1053	French Language Courses	15
LI00BI82	French Basics 1	0
LI00BI83	French Basics 2	0
LI00BI84	French for the Workplace	0
LATO18-1054	Spanish Language Courses	15
LI00BI85	Spanish Basics 1	0
LI00BI86	Spanish Basics 2	0
LI00BI87	Spanish for the workplace	0
LATO18-1055	Market Orientation	15
LI00BI88	Doing Business with the Russians: Opportunities & Challenges	0
LI00BI89	Breaking into Asian Markets	0
LI00BI90	Fundamentals of Professional Selling	0
LATO18-1056	International Business Operations	15
LI00BI91	Internationalisation Process	0
LI00BI92	International Economics	0
LI00BI93	International Marketing	0
LATO18-1057	Specialisation Studies	15
LI00BJ58	NIBS Case Competition, International Business Strategy	0
LI00BJ59	Ethics, Environment and Business	0
LI00BJ60	GetEmployed - Työllisty!	0
LATO18-1058	Presentation and Literacy Skills	10
LI00BJ63	Powerful Presentations	0
LI00BJ64	Texts for Publication	0
LATO18-1059	Finnish for Foreigners	15
LI00BJ65	Finnish for Foreigners 2	0
LI00BJ66	Finnish for Foreigners 3	0
LI00BJ67	Finnish for Foreigners 4	0
LATO18-1060	Real estate business specialist	30
LATO18-1061	Operating environment in real estate business	0
LI00BM40	Real estate industry	0
LI00BM41	Real estate legislation	0
LI00BM42	Technical features of properties	0
LATO18-1062	Real estate brokerage and business	0
LI00BM43	Marketing property and real estate agency services	0
LI00BM44	Brokering a property	0
LI00BM45	Brokering a housing company share	0
LI00BM46	Preparing for the qualification test for licensed real estate agents	0
LATO18-1021	Individual courses, which are not included in any of the modules	0
LATO18-1102	SME's digital marketing	15
LI00BR25	SME's digital marketing	0

LATO18-1103	Applications		15
LI00BR26	Object Oriented Programming		0
LI00BR27	Data Storages		0
LI00BR28	Applications Project		0
LATO18-1063	Modules of Institute of Design and Fine Arts available		395
LATO18-1065	Arts studies		15
MI00BL30	The scale of human		0
MI00BL31	Sculpture		0
MI00BL51	Experimental arts workshop		0
LATO18-1066	Concept design work		10
MI00BM02	Concept Design		0
MI00BM04	Concept Art Drawing		0
LATO18-1067	Creative Design Work 2		15
MI00BN73	Professional Software Tools		0
MI00BN74	Three-dimensional Modelling Project 2		0
MI00BM47	Design studio work		0
LATO18-1110	History and theory of visual communication		0
MI00BR93	History of graphic communication		0
MI00BR94	History of photography		0
MI00BL32	Visual Culture Theory		0
MI00BR92	Image and user		0
LATO18-1069	Printed Textiles Design		15
MI00BM09	Printed Textiles Design		0
MI00BM10	Special Printing Methods and Material Treatments		0
MI00BM13	Ethical and Ecological Issues in Textiles and Clothing		0
LATO18-1070	Knitwear Design and Technologies		15
MI00BM11	Knitwear Design Basics		0
MI00BM12	Knitting Technology		0
MI00BM13	Ethical and Ecological Issues in Textiles and Clothing		0
LATO18-1118	Tila- ja kalustesuunnitteluprojekti		15
MI00BS11	Design drawing by hand		0
MI00BS14	Working in CAD		0
KE00BE10	Working in a Project 1		0
LATO18-1119	Syventävä tila- ja kalustesuunnitteluprojekti		15
MI00BS12	Presentation drawing		0
MI00BS15	CAD, 3D and visualization		0
KE00BE11	Working in a Project 2		0
LATO18-1120	Tila- ja kalustesuunnittelustudio		15
MI00BS13	Digital design drawing		0

MI00BS16	Advanced CAD		0
KE00BE12	Working in a Project 3		0
LATO18-1071	Wood and Biomaterial Studio		15
MI00BL92	Wood and Biomaterial Studio 1		0
MI00BL93	Wood and Biomaterial Studio 2		0
MI00BL94	Wood and Biomaterial Studio 3		0
LATO18-1072	Complementary Competences in Packaging Design		0
MI00BM06	Basics of Packaging Design		0
MI00BQ69	Basics of typography for branding and packaging design		0
MI00BM07	Packaging Design Model Making and Modelling Materials Workshop		0
MI00BM08	Packaging Graphics and the Pre-Press Process		0
LATO18-1109	Exhibition design		15
MI00BS05	Exhibition architecture		0
MI00BS06	Exhibition design and communication		0
MI00BS07	Narrative in exhibition design		0
LATO18-1074	Studio photography and digital image production		15
MI00BL78	Studio photography		0
MI00BL79	Digital photo production		0
MI00BL81	Digital printing		0
LATO18-1106	Valokuvaajan ammatilliset erityisosaamiset		0
MI00BR73	Analysing images		0
MI00BS03	Architecture photography		0
MI00BS04	Fashion photography		0
MI00BS01	Contact photography workshop		0
MI00BS02	Photography exhibition		0
LATO18-1108	Visual journalism		15
MI00BR95	History and theory of photojournalism		0
MI00BR96	Journalistic video		0
MI00BR97	Journalistic workshop		0
LATO18-1107	Graphic storytelling		15
MI00BR98	Creative writing		0
MI00BR99	Illustrated book		0
MI00BS00	Book design		0
LATO18-1073	Curious Creativity		15
MI00BL34	Experimental Publication Design		0
MI00BL35	Off the Wall - Liberating Comics from the Book		0
MI00BL36	The Urban Environment as a Playground for the Designer		0
LATO18-1116	UI/IXD for emerging platforms		15
MI00BS20	Interface design for emerging platforms		0
MI00BS21	Interaction on emerging platforms		0

MI00BS22	Mobile app project as an interactive mockup		0
LATO18-1075	Game Design		15
TE00BH75	Game Design		0
MI00BN22	Game Analysis and Theory		0
MI00BN21	Game Concept Design		0
TE00BH78	Game Development Workshop		0
LATO18-1076	3D Animation		15
05MEMED3D	3D animation tools		0
05MEMED3DPR	3D animation project		0
05MEMED3DGM	Animation and 3D for games		0
LATO18-1111	Design drawing		15
MI00BS11	Design drawing by hand		0
MI00BS12	Presentation drawing		0
MI00BS13	Digital design drawing		0
LATO18-1112	Professional CAD		15
MI00BS14	Working in CAD		0
MI00BS15	CAD, 3D and visualization		0
MI00BS16	Advanced CAD		0
LATO18-1113	Information design and product graphics		15
MI00BS23	Information design		0
MI00BS19	Graphic design for products		0
MI00BS18	Information design project		0
LATO18-1114	Information design and wayfinding systems		15
MI00BS23	Information design		0
MI00BS17	Creating and assessing wayfinding systems		0
MI00BS18	Information design project		0
LATO18-1115	Software tools for visual creative work		0
MI00BS08	Image editing software Adobe Photoshop		0
MI00BS09	Layout software Adobe InDesign		0
MI00BS10	Graphics software Adobe Illustrator		0
LATO18-1064	Individual courses, which are not included in any of the modules		25
MI00BQ98	Designer's Survival Kit – Personal Branding and Negotiation Skills		0
MI00BR74	Studia generalia lecture series		0
MI00BR75	Academic reading group and excursions		0
0500BA41	Visual styles and techniques in comics		0
MI00BE71	Competition entry		0
MI00BM66	Exhibition		0
LATO18-1077	Modules of Faculty of Social and Health Care available		133
LATO18-1079	Innovation Competence in Social Services and Health Care		15
UU00BJ90	Innovation Competence		0

U200BJ91	Innovation Competence		0
U300BJ92	Innovation Competence		0
LATO18-1080	Practical Training in Innovation Competence in Social and Health care		15
U100BJ93	Acting as a Developer in Own Work 1		0
U200BJ94	Acting as a Developer in Own Work 2		0
U300BJ95	Acting as a Developer in Own Work 3		0
LATO18-1081	Promoting Youth Wellbeing		15
ST00BK27	Constructors of Youth Wellbeing		0
ST00BK28	Promoting youth wellbeing – towards holistic and multiprofessional approach		0
LATO18-1082	Tutoring		10
ST00BM34	Skill workshop tutoring:		0
ST00BJ98	Simulation Tutoring		0
LATO18-1083	Methodical competence in social inclusion		15
ST00BK15	Methodology of Social Pedagogical Work		0
ST00BK16	Narrative picture work		0
ST00BK17	Drama Work		0
LATO18-1084	Health-related exercise - new technological possibilities		15
ST00BK30	Health promoting exercise recommendations and prevention of musculoskeletal disorder		0
ST00BK31	Intelligent health promoting exercise and guidance solutions		0
ST00BK32	Digitalisation in walking, muscle strength training and motor control training		0
LATO18-1085	Love and Care		15
ST00AY65	Sexual Health Promotion		0
ST00BJ27	Workplace Safety and First Aid		0
ST00BL40	Promoting Wellbeing with Mindfulness		0
LATO18-1086	Professional Finnish		23
ST00BM28	Professional Finnish 1		0
ST00BM29	Professional Finnish 2		0
ST00BM25	Professional Finnish 3		0
ST00BM30	Finnish		0
ST00BO67	Basics of Professional Finnish		0
LATO18-1087	Simulaatiot / Simulations		10
ST00BJ34	Simulation for graduating nurse students		0
ST00BJ39	Simulation, Good care in acute care		0
ST00BJ38	Simulation, Maternity		0
ST00BJ37	Simulation, Competence in children and adolescent care		0
ST00BJ36	Simulation, Competence in mental health and substance abuse work		0

ST00BJ35	Simulation, Competence in good chronic nursing care		0
ST00BJ32	Good care in acute care		0
ST00BJ30	Competence in children and adolescent care		0
ST00BJ33	Simulation for graduating nurse students		0
ST00BQ16	Simulaatio, Äitiyshuolto		0
LATO18-1078	Individual courses, which are not included in any of the modules		0
ST00BM32	Lifestyle guidance		0
ST00BM33	Medical Studies		0
ST00BK18	Advanced Practice Nursing		0
ST00BL96	Potilaan kliininen tutkiminen		0
ST00BL97	Patient's Clinical Examination		0
ST00BQ32	Turvallinen lääkehoito, sosionomikoulutus		0
ST00BQ57	Drug and alcohol work-Talking about Substance Abuse and Child in detoxification family		0
ST00BQ85	Asumissosiaalinen työ		0
ST00BR59	Sairaalan lapsen hoitotyön ja perhehoitotyön täydentävät opinnot		0
ST00BR79	Työkaluja elintapavalmennukseen		0
ST00BS31	Kriisityö		0
ST00BS77	Advanced Manual Therapy		0
ST00BS78	Digital flow to the services of social and health		0
LATO18-1088	Modules of Faculty of Technology available		175
LATO18-1089	Environmental Projects		15
TE00BH00	Environmental Project 1		0
TE00BH01	Environmental Project 2		0
TE00BH02	Environmental Project 3		0
LATO18-1090	Environmental Technologies		15
TE00BH03	Environmental Technologies 1		0
TE00BH04	Environmental Technologies 2		0
TE00BH05	Environmental technologies 3		0
LATO18-1091	Mechanics and Automation 5		15
TE00BG76	Automation of a Manufacturing Cell	3	3
TE00BG71	Simulation	4	4
TE00BG72	Modelling	3	3
TE00BG73	Robot Applications	5	5
LATO18-1092	Mechanics and Automation 6		15
TE00BG74	Materials and design	5	5
TE00BG75	Optimal Modelling	5	5
TE00BG70	Dynamics of Joint Mechanisms	5	5
LATO18-1093	Project 3		10
TE00BG77	Project 3		0

LATO18-1094	Applications of Plastics Materials		15
TE00BH23	Environmental Issues of Plastics		0
TE00BH24	Product Designing and Applications for Plastic Materials		0
TE00BH25	Materials Engineering Project		0
LATO18-1095	Web Development		15
TE00BH58	Server-Side Programming	4	4
TE00BH59	Browser as a Platform	4	4
TE00BH60	Web Frameworks	3	3
TE00BH61	Web Workshop	4	4
LATO18-1096	Mobile Games		15
TE00BH62	Programming Mobile Smart Devices		0
TE00BH63	Game Engines and Algorithms		0
TE00BH64	Cloud Computing and Document Databases		0
TE00BH65	Smart Devices Workshop		0
LATO18-1097	Virtualization and Cloud Services		15
TE00BH66	Virtualization Technologies	5	5
TE00BH67	Administering servers and services	5	5
TE00BH68	Cloud Services Workshop	5	5
LATO18-1098	Internet of Things (IoT)		15
TE00BH69	IoT and Network Technologies		0
TE00BH70	IoT Security and Network Management		0
TE00BH71	IoT Workshop		0
LATO18-1099	Production of Digital Material		15
TE00BH72	Digital Material	5	5
TE00BH73	WWW Multimedia	5	5
TE00BH74	Visualization Workshop	5	5
LATO18-1100	Game Development		15
TE00BH75	Game Design		0
TE00BH76	Game Programming Advanced Course		0
TE00BH77	Game Programming Mathematics and Physics		0
TE00BH78	Game Development Workshop		0
LATO18-1101	Individual courses, which are not included in any of the modules		0
TE00BG96	Basics of The Campus Radio		0
TE00BM55	PEETS	5	5
TE00BN70	Circular Economy course week		0
TE00BQ56	Robotics for a Case Company	15	15
TE00BK45	Technical design Project	5	5
TE00BK50	CNC programming and manufacturing basics	5	5
TE00BK49	Safe use of woodworking machines	3	3
LA00BQ37	Project	1	1

TE00BQ96	Textiles and Plastics in Circular Economy	3	3
TE00BR77	Heat pump applications	5	5
TE00BS47	Sawmill Trainee	15	15
TE00BB49	iWeek ICT		0
TE00BS69	Puurakentaminen ja puurakentamisen tuotteet	5	5
TE00BS79	Carbon neutrality and mechanical forest industry		0
TE00BS80	Wood industry as a global business		0

LATO18-1000 LAMK multidiciplinary modules available: 368 ECTS

LATO18-1001 DigiWay: 45 ECTS

LA00BM20 Digital Services: 15 ECTS

Learning outcomes

Theme: content

The student is able to

- design a digital service oriented by user
- produce media content with the target audience

Theme: ServiceDesk organization

The student is able to

- plan processes for ServiceDesk and organise its working.
- design and conduct training and act as a support person.

Theme: producing a web site

The student is able to

- design and implement the web site, taking into account customer needs.
- utilize usability principles in web site design and implementation

LA00BM21 Frontend: 15 ECTS

Learning outcomes

Theme: Taking over the new technology

The student is able to

- design and take responsibility for their own professional growth in frontend solutions.
- to adopt a new frontend technology.

Theme: Possibilities of Data

The student is able to

- design and describe data collection and integration solutions

- defining the use of data to generate value for the customer
- develop use of data in the development of operations

Theme: Frontend solutions

The student is able to

- work in a multidisciplinary team by goal-oriented.
- to develop and evaluate user-specific frontend solutions.

LA00BM22 Backend: 15 ECTS

Learning outcomes

Theme: Taking over the new technology

The student is able to

- design and take responsibility for their own professional growth in backend solutions.
- to adopt a new backend technology.

Theme: Virtualization and cloud services

The student is able to

- compare different virtualization platforms and their different technical and maintenance features.
- enable a cloud service that is appropriate for the organization.

Theme: Backend solutions

The student is able to

- to work self-organized in the team.
- develop a backend solution and estimate its functionality.

LATO18-1002 Circular Economy I: 15 ECTS

TE00BG85 Sustainable Community and Environment: 5 ECTS

Learning outcomes

The student is able to

- acknowledge the significance of environmental aspects and resource efficiency as a part of future decision making at different levels and in different kinds of operations
- identify the significance of sustainable energy and environmental impacts as part of the operations of communities
- use concepts related with environmental and resource efficiency and identify operating models that promote circular economy

TE00BG86 Responsible Business and Design: 5 ECTS

Learning outcomes

The student is able to

- describe the principles that various companies have concerning environmental and corporate social

responsibility, and is familiar with the standards and certificates connected with the field

- apply, manage and develop the principles of CSR as a competitive tool throughout the supply chain
- identify the importance of responsibility as part of the development of different services, processes and products
- observe the whole service chain as part of the design process and take into account the principles of consumer behaviour (sustainable service design)

TE00BG87 Circular Economy I - Development Project: 5 ECTS

Learning outcomes

The student is able to

- apply their competence, different operating models and theoretical information in projects sourced from working life
- work in multidisciplinary teams, developing their skills in circular economy, project management and reporting

LATO18-1003 Circular Economy II: 15 ECTS

TE00BR09 Responsible Materials Technology and Product Development: 5 ECTS

Learning outcomes

The student:

- can identify and test different materials and evaluate their applicability for different end uses
- can explain the differences between virgin and recycled textile and plastic materials considering the consumption of energy and natural resources
- knows different kinds of separation techniques based on differences in the physical and chemical properties of materials
- knows how to take circular economy into account as part of the product design process
- can examine the whole service chain, taking into account the principles of consumer behaviour (sustainable service design)

TE00BG90 Sustainable Energy Economy and Logistics: 5 ECTS

Learning outcomes

The student is able to

- know different kinds of renewable/nonrenewable forms of energy and evaluate their environmental and economic impacts
- evaluate the energy efficiency of different methods to produce and use energy
- identify ways to increase eco-efficiency as part of logistic chains and in material recycling

TE00BG89 Circular Economy II - Development Project: 5 ECTS

Learning outcomes

The student is able to

- apply their competence, different operating models and theoretical information in projects sourced from working life, where circular economy is promoted by developing chosen processes, products and/or services

- work in multidisciplinary teams, developing their skills in circular economy, project management and reporting

LATO18-1004 Circular Economy III: 15 ECTS

LI00BJ61 NY Start Up: 10 ECTS

Learning outcomes

The student is able to

- plan and launch a business
- analyse a company's operating environment and recognise and anticipate its potential and risks
- operate in local and industry-specific competence networks
- plan a company's finances and estimate the profitability of operations.

LI00BJ62 Student cooperatives and associations: 5 ECTS

Learning outcomes

The student is able to

- explain company and association law as well as community rules, and understands the impact of these
- master the meeting practices of a company or association, and is able to chair a meeting, or act as a secretary or scrutinizer of the minutes
- identify the basic features related to the financial management a company or association
- draw up the documents related to the functioning of a company or association
- operate with the day-to-day activities of a company or association and is able to organize these activities.

LATO18-1005 Service Design learning package: 45 ECTS

Learning outcomes of the study module

The Service Design learning package consists of three 15 erts modules. There is one module per semester as follows:

- User driven design and the basics of Service Design 15 erts (the first semester)
- Service Design methods for designing and implementing a new service concept 15 erts (the second semester)
- A Service Design project 15 erts (the third semester)

The main subject is Service Design. Secondary subjects are team building, team working and team learning and service's business aspects.

MI00AZ88 User driven design and the basics of Service Design: 15 ECTS

Learning outcomes

Theme: Service Design viewpoint on design thinking

The student is able to

- use the terms of Service Design and tell what Service Design is
- utilize user driven methods and give reasons in what kind of situations they are useful
- create the visual presentations of a service

Theme: teams, team learning and team work skills

The student is able to

- execute tasks according to plans in a multidisciplinary team
- plan and take responsibility of development of own Service Design skills

Theme: Services make business

The student is able to

- tell the principle of service business
- give examples of successful service business.

MI00AZ89 Service Design methods for designing a new service concept: 15 ECTS

Learning outcomes

Theme: Generating ideas

A student is able to

- utilize a user driven process in creation of new service ideas
- apply multicasting in creation of a user experience
- apply the principles of sustainable development in service development

Theme: Creating a service concept

The student is able to

- utilize design process in creation of new service idea and in the development of a service concept
- model and test service ideas by prototyping
- evaluate an operability of a service concept and its ability to create value

Theme: Team working

The student is able to

- create contacts with working life representatives and advance working life based Service Design project
- take responsibility of developing own Service Design skills

MI00AZ90 Service Design project: 15 ECTS

Learning outcomes

The student is able to

- show that he/she has familiarized himself/herself to the terms and concepts of Service Design
- design and implement a service design project for the chosen project up to needed phase
- commit the target organization and stake holders in a service design process
- drive a development project successfully
- evaluate a development project and the effects of its results

LATO18-1006 Startup Activities: 15 ECTS

LI00BJ61 NY Start Up: 10 ECTS

Learning outcomes

The student is able to

- plan and launch a business
- analyse a company's operating environment and recognise and anticipate its potential and risks
- operate in local and industry-specific competence networks
- plan a company's finances and estimate the profitability of operations.

LI00BJ62 Student cooperatives and associations: 5 ECTS

Learning outcomes

The student is able to

- explain company and association law as well as community rules, and understands the impact of these
- master the meeting practices of a company or association, and is able to chair a meeting, or act as a secretary or scrutinizer of the minutes
- identify the basic features related to the financial management a company or association
- draw up the documents related to the functioning of a company or association
- operate with the day-to-day activities of a company or association and is able to organize these activities.

LATO18-1007 Module 1 CREW: 15 ECTS

LI00BJ73 The world of events: 5 ECTS

Learning outcomes

The student is able to

- describe the event process
- take into account the experiential nature of event organising
- take into account the user-oriented nature of event organising
- recognise the special features of various events.

LI00BJ76 Event Project 1: 10 ECTS

Learning outcomes

The student is able to

- identify the components of a successful event
- act responsibly as a member of a multidisciplinary event team
- work in event organising projects
- specify tasks related to an event
- assess their own actions and the importance of their role in the event.

LATO18-1008 Module 2 BACKSTAGE: 15 ECTS

LI00BJ74 From idea into event concept: 5 ECTS

Learning outcomes

The student is able to

- create a concept of the event
- apply event planning tools
- take into account the challenges and opportunities in the operating environment
- schedule, resource and budget the implementation of an event.
- lead team in an event

LI00BJ79 Event Project 2: 10 ECTS

Learning outcomes

The student is able to

- identify their strengths and areas for development as an event organiser
- draw up an event manual
- analyse the success of an event from different perspectives
- organize the activities of their respective responsibilities
- act purposefully and productively in a multidisciplinary event team.

LATO18-1009 Module 3 ACCESS ALL AREAS: 15 ECTS

LI00BJ75 Event manager skills: 5 ECTS

Learning outcomes

The student is able to

- responsibly organise and be in charge of their area of responsibility
- produce events independently
- critically assess events and develop them
- create value for events.

LI00BJ81 Event project 3: 10 ECTS

Learning outcomes

The student is able to

- implement an event as planned
- address unforeseen situations and apply the existing knowledge base
- manage themselves in the production of an event
- plan and take responsibility for developing their own event producing skills.

LATO18-1104 Oppiminen hankkeissa ja toistuvissa projekteissa: 15 ECTS

LA00BR30 Working in a project - DigiManufacturing: 5 ECTS

Learning outcomes

For 1.-2. year students learning outcomes for early study phase are applied, and for 3.-4. year

students learning outcomes for the graduation phase.

Early-skill stage/learning outcomes:

The student is able to:

- use the concepts related to the project topic and theme and shows familiar with the paternity-related project data base
- describe the rationale, needs and criteria for project activities
- work in projects in accordance with the administration
- apply professional methods and working practices related to the project topic
- operate safely, ethically and customer-oriented project
- action required by the project in interactive situations
- operate safely, ethically and customer-oriented project

Graduation competence/learning outcomes:

The student is able to:

- use the concepts related to the project in a coherent and justify their actions on the basis of the knowledge base
- find starting points, needs and criteria for project activities
- to act purposefully, to assess the activity and make suggestions for improvement
- applied to the project a variety of different techniques, methods and ways of working
- operate safely, ethically and customer-oriented
- to act responsibly and in a target group and as otherwise required by the project in interactive situations

LA00BR31 Working in a Project - DuuniExpo: 5 ECTS

Learning outcomes

For 1.-2. year students learning outcomes for early study phase are applied, and for 3.-4. year students learning outcomes for the graduation phase.

Early-skill stage/learning outcomes:

The student is able to:

- use the concepts related to the project topic and theme and shows familiar with the paternity-related project data base
- describe the rationale, needs and criteria for project activities
- work in projects in accordance with the administration
- apply professional methods and working practices related to the project topic
- operate safely, ethically and customer-oriented project
- action required by the project in interactive situations
- operate safely, ethically and customer-oriented project

Graduation competence/learning outcomes:

The student is able to:

- use the concepts related to the project in a coherent and justify their actions on the basis of the knowledge base
- find starting points, needs and criteria for project activities
- to act purposefully, to assess the activity and make suggestions for improvement
- applied to the project a variety of different techniques, methods and ways of working
- operate safely, ethically and customer-oriented
- to act responsibly and in a target group and as otherwise required by the project in interactive

situations

TE00BR60 Energy and enviromental technology project applications: 5 ECTS

Learning outcomes

For 1.-2. year students learning outcomes for early study phase are applied, and for 3.-4. year students learning outcomes for the graduation phase.

Early-skill stage/learning outcomes:

The student is able to:

- use the concepts related to the project topic and theme and shows familiar with the paternity-related project data base
- discribe the rationale, needs and criteria for project activities
- work in projects in accordance with the administration
- apply professional methods and working practices related to the project topic
- operate safely, ethically and customer-oriented project
- action required by the project in interactive situations
- operate safely, ethically and customer-oriented project

Graduation competence/learning outcomes:

The student is able to:

- use the concepts related to the project in a coherent and justify their actions on the basis of the knowledge base
- find starting points, needs and criteria for project activities
- to act purposefully, to assess the activity and make suggestions for improvement
- applied to the project a variety of different techniques, methods and ways of working
- operate safely, ethically and customer-oriented
- to act responsibly and in a target group and as otherwise required by the project in interactive situation

TE00BR61 Working in a project - Kiemura: 5 ECTS

Learning outcomes

For 1.-2. year students learning outcomes for early study phase are applied, and for 3.-4. year students learning outcomes for the graduation phase.

Early-skill stage/learning outcomes:

The student is able to:

- use the concepts related to the project topic and theme and shows familiar with the paternity-related project data base
- discribe the rationale, needs and criteria for project activities
- work in projects in accordance with the administration
- apply professional methods and working practices related to the project topic
- operate safely, ethically and customer-oriented project
- action required by the project in interactive situations
- operate safely, ethically and customer-oriented project

Graduation competence/learning outcomes:

The student is able to:

- use the concepts related to the project in a coherent and justify their actions on the basis of the knowledge base
- find starting points, needs and criteria for project activities
- to act purposefully, to assess the activity and make suggestions for improvement
- applied to the project a variety of different techniques, methods and ways of working
- operate safely, ethically and customer-oriented
- to act responsibly and in a target group and as otherwise required by the project in interactive situations

TE00BR76 Community planning application projects: 5 ECTS

Learning outcomes

For 1.-2. year students learning outcomes for early study phase are applied, and for 3.-4. year students learning outcomes for the graduation phase.

Early-skill stage/learning outcomes:

The student is able to:

- use the concepts related to the project topic and theme and shows familiar with the paternity-related project data base
- describe the rationale, needs and criteria for project activities
- work in projects in accordance with the administration
- apply professional methods and working practices related to the project topic
- operate safely, ethically and customer-oriented project
- action required by the project in interactive situations
- operate safely, ethically and customer-oriented project

Graduation competence/learning outcomes:

The student is able to:

- use the concepts related to the project in a coherent and justify their actions on the basis of the knowledge base
- find starting points, needs and criteria for project activities
- to act purposefully, to assess the activity and make suggestions for improvement
- applied to the project a variety of different techniques, methods and ways of working
- operate safely, ethically and customer-oriented
- to act responsibly and in a target group and as otherwise required by the project in interactive situation

TE00BR78 Working in a project - IWAMA, Waste water technologies: 5 ECTS

Learning outcomes

For 1.-2. year students learning outcomes for early study phase are applied, and for 3.-4. year students learning outcomes for the graduation phase.

Early-skill stage/learning outcomes:

The student is able to:

- use the concepts related to the project topic and theme and shows familiar with the paternity-related project data base
- describe the rationale, needs and criteria for project activities
- work in projects in accordance with the administration

- apply professional methods and working practices related to the project topic
- operate safely, ethically and customer-oriented project
- action required by the project in interactive situations
- operate safely, ethically and customer-oriented project

Graduation competence/learning outcomes:

The student is able to:

- use the concepts related to the project in a coherent and justify their actions on the basis of the knowledge base
- find starting points, needs and criteria for project activities
- to act purposefully, to assess the activity and make suggestions for improvement
- applied to the project a variety of different techniques, methods and ways of working
- operate safely, ethically and customer-oriented
- to act responsibly and in a target group and as otherwise required by the project in interactive situations

LA00BS34 Working in a project - TAJUMO: 5 ECTS

Learning outcomes

For 1.-2. year students learning outcomes for early study phase are applied, and for 3.-4. year students learning outcomes for the graduation phase.

Early-skill stage/learning outcomes:

The student is able to:

- use the concepts related to the project topic and theme and shows familiar with the paternity-related project data base
- describe the rationale, needs and criteria for project activities
- work in projects in accordance with the administration
- apply professional methods and working practices related to the project topic
- operate safely, ethically and customer-oriented project
- action required by the project in interactive situations
- operate safely, ethically and customer-oriented project

Graduation competence/learning outcomes:

The student is able to:

- use the concepts related to the project in a coherent and justify their actions on the basis of the knowledge base
- find starting points, needs and criteria for project activities
- to act purposefully, to assess the activity and make suggestions for improvement
- applied to the project a variety of different techniques, methods and ways of working
- operate safely, ethically and customer-oriented
- to act responsibly and in a target group and as otherwise required by the project in interactive situations

LA00BS35 Working in a project - REHOME: 5 ECTS

Learning outcomes

For 1.-2. year students learning outcomes for early study phase are applied, and for 3.-4. year students learning outcomes for the graduation phase.

Early-skill stage/learning outcomes:

The student is able to:

- use the concepts related to the project topic and theme and shows familiar with the paternity-related project data base
- describe the rationale, needs and criteria for project activities
- work in projects in accordance with the administration
- apply professional methods and working practices related to the project topic
- operate safely, ethically and customer-oriented project
- action required by the project in interactive situations
- operate safely, ethically and customer-oriented project

Graduation competence/learning outcomes:

The student is able to:

- use the concepts related to the project in a coherent and justify their actions on the basis of the knowledge base
- find starting points, needs and criteria for project activities
- to act purposefully, to assess the activity and make suggestions for improvement
- applied to the project a variety of different techniques, methods and ways of working
- operate safely, ethically and customer-oriented
- to act responsibly and in a target group and as otherwise required by the project in interactive situations

LA00BS36 Working in a project - PALMA: 5 ECTS

Learning outcomes

For 1.-2. year students learning outcomes for early study phase are applied, and for 3.-4. year students learning outcomes for the graduation phase.

Early-skill stage/learning outcomes:

The student is able to:

- use the concepts related to the project topic and theme and shows familiar with the paternity-related project data base
- describe the rationale, needs and criteria for project activities
- work in projects in accordance with the administration
- apply professional methods and working practices related to the project topic
- operate safely, ethically and customer-oriented project
- action required by the project in interactive situations
- operate safely, ethically and customer-oriented project

Graduation competence/learning outcomes:

The student is able to:

- use the concepts related to the project in a coherent and justify their actions on the basis of the knowledge base
- find starting points, needs and criteria for project activities
- to act purposefully, to assess the activity and make suggestions for improvement
- applied to the project a variety of different techniques, methods and ways of working
- operate safely, ethically and customer-oriented
- to act responsibly and in a target group and as otherwise required by the project in interactive situations

LA00BS37 Working in a project - KUPARI: 5 ECTS

Learning outcomes

For 1.-2. year students learning outcomes for early study phase are applied, and for 3.-4. year students learning outcomes for the graduation phase.

Early-skill stage/learning outcomes:

The student is able to:

- use the concepts related to the project topic and theme and shows familiar with the paternity-related project data base
- describe the rationale, needs and criteria for project activities
- work in projects in accordance with the administration
- apply professional methods and working practices related to the project topic
- operate safely, ethically and customer-oriented project
- action required by the project in interactive situations
- operate safely, ethically and customer-oriented project

Graduation competence/learning outcomes:

The student is able to:

- use the concepts related to the project in a coherent and justify their actions on the basis of the knowledge base
- find starting points, needs and criteria for project activities
- to act purposefully, to assess the activity and make suggestions for improvement
- applied to the project a variety of different techniques, methods and ways of working
- operate safely, ethically and customer-oriented
- to act responsibly and in a target group and as otherwise required by the project in interactive situations

LA00BS38 Working in a project - Puusta pidemmälle (Wood industry sector development project): 5 ECTS

Learning outcomes

For 1.-2. year students learning outcomes for early study phase are applied, and for 3.-4. year students learning outcomes for the graduation phase.

Early-skill stage/learning outcomes:

The student is able to:

- use the concepts related to the project topic and theme and shows familiar with the paternity-related project data base
- describe the rationale, needs and criteria for project activities
- work in projects in accordance with the administration
- apply professional methods and working practices related to the project topic
- operate safely, ethically and customer-oriented project
- action required by the project in interactive situations
- operate safely, ethically and customer-oriented project

Graduation competence/learning outcomes:

The student is able to:

- use the concepts related to the project in a coherent and justify their actions on the basis of the knowledge base

- find starting points, needs and criteria for project activities
- to act purposefully, to assess the activity and make suggestions for improvement
- applied to the project a variety of different techniques, methods and ways of working
- operate safely, ethically and customer-oriented
- to act responsibly and in a target group and as otherwise required by the project in interactive situations

LA00BS39 Working in a project - Culture Tourism for City Breakers CTC: 5 ECTS

Learning outcomes

For 1.-2. year students learning outcomes for early study phase are applied, and for 3.-4. year students learning outcomes for the graduation phase.

Early-skill stage/learning outcomes:

The student is able to:

- use the concepts related to the project topic and theme and shows familiar with the paternity-related project data base
- describe the rationale, needs and criteria for project activities
- work in projects in accordance with the administration
- apply professional methods and working practices related to the project topic
- operate safely, ethically and customer-oriented project
- action required by the project in interactive situations
- operate safely, ethically and customer-oriented project

Graduation competence/learning outcomes:

The student is able to:

- use the concepts related to the project in a coherent and justify their actions on the basis of the knowledge base
- find starting points, needs and criteria for project activities
- to act purposefully, to assess the activity and make suggestions for improvement
- applied to the project a variety of different techniques, methods and ways of working
- operate safely, ethically and customer-oriented
- to act responsibly and in a target group and as otherwise required by the project in interactive situations

MI00BS40 Working in a project - Design Studio Simulation: 5 ECTS

Learning outcomes

For 1.-2. year students learning outcomes for early study phase are applied, and for 3.-4. year students learning outcomes for the graduation phase.

Early-skill stage/learning outcomes:

The student is able to:

- use the concepts related to the topics and themes of the assignments
- describe the rationale, needs and criteria for the assignments
- work on assignments in accordance with the administration
- apply professional methods and working practices related to the assignments
- operate in a safe, ethical and customer-oriented way

Graduation competence/learning outcomes:

The student is able to:

- use the concepts related to the assignments in a coherent way and justify their actions on the basis of the knowledge base
- find starting points, needs and criteria for an assignment
- to act purposefully, to assess activities in process and make suggestions for improvement
- apply a variety of different techniques, methods and ways of working to the assignments
- act in a responsible and goal-oriented way in the project group and in different situations and events related to the assignments.

LA00BS46 Working in a Project - Campus Guide: 5 ECTS

Learning outcomes

For 1.-2. year students learning outcomes for early study phase are applied, and for 3.-4. year students learning outcomes for the graduation phase.

Early-skill stage/learning outcomes:

The student is able to:

- use the concepts related to the project topic and theme and shows familiar with the paternity-related project data base
- describe the rationale, needs and criteria for project activities
- work in projects in accordance with the administration
- apply professional methods and working practices related to the project topic
- operate safely, ethically and customer-oriented project
- action required by the project in interactive situations
- operate safely, ethically and customer-oriented project

Graduation competence/learning outcomes:

The student is able to:

- use the concepts related to the project in a coherent and justify their actions on the basis of the knowledge base
- find starting points, needs and criteria for project activities
- to act purposefully, to assess the activity and make suggestions for improvement
- applied to the project a variety of different techniques, methods and ways of working
- operate safely, ethically and customer-oriented
- to act responsibly and in a target group and as otherwise required by the project in interactive situations

LATO18-1010 Working in a Project: 15 ECTS

KE00BE10 Working in a Project 1: 5 ECTS

Learning outcomes

For 1.-2. year students learning outcomes for early study phase are applied, and for 3.-4. year students learning outcomes for the graduation phase.

Early-skill stage/learning outcomes:

The student is able to:

- use the concepts related to the project topic and theme and shows familiar with the paternity-

related project data base

- describe the rationale, needs and criteria for project activities
- work in projects in accordance with the administration
- apply professional methods and working practices related to the project topic
- operate safely, ethically and customer-oriented project
- action required by the project in interactive situations
- operate safely, ethically and customer-oriented project

Graduation competence/learning outcomes:

The student is able to:

- use the concepts related to the project in a coherent and justify their actions on the basis of the knowledge base
- find starting points, needs and criteria for project activities
- to act purposefully, to assess the activity and make suggestions for improvement
- applied to the project a variety of different techniques, methods and ways of working
- operate safely, ethically and customer-oriented
- to act responsibly and in a target group and as otherwise required by the project in interactive situations

KE00BE11 Working in a Project 2: 5 ECTS

Learning outcomes

For 1.-2. year students learning outcomes for early study phase are applied, and for 3.-4. year students learning outcomes for the graduation phase.

Early-skill stage/learning outcomes:

The student is able to:

- use the concepts related to the project topic and theme and shows familiar with the paternity-related project data base
- describe the rationale, needs and criteria for project activities
- work in projects in accordance with the administration
- apply professional methods and working practices related to the project topic
- operate safely, ethically and customer-oriented project
- action required by the project in interactive situations
- operate safely, ethically and customer-oriented project

Graduation competence/learning outcomes:

The student is able to:

- use the concepts related to the project in a coherent and justify their actions on the basis of the knowledge base
- find starting points, needs and criteria for project activities
- to act purposefully, to assess the activity and make suggestions for improvement
- applied to the project a variety of different techniques, methods and ways of working
- operate safely, ethically and customer-oriented
- to act responsibly and in a target group and as otherwise required by the project in interactive situations

KE00BE12 Working in a Project 3: 5 ECTS

Learning outcomes

For 1.-2. year students learning outcomes for early study phase are applied, and for 3.-4. year students learning outcomes for the graduation phase.

Early-skill stage/learning outcomes:

The student is able to:

- use the concepts related to the project topic and theme and shows familiar with the paternity-related project data base
- describe the rationale, needs and criteria for project activities
- work in projects in accordance with the administration
- apply professional methods and working practices related to the project topic
- operate safely, ethically and customer-oriented project
- action required by the project in interactive situations
- operate safely, ethically and customer-oriented project

Graduation competence/learning outcomes:

The student is able to:

- use the concepts related to the project in a coherent and justify their actions on the basis of the knowledge base
- find starting points, needs and criteria for project activities
- to act purposefully, to assess the activity and make suggestions for improvement
- applied to the project a variety of different techniques, methods and ways of working
- operate safely, ethically and customer-oriented
- to act responsibly and in a target group and as otherwise required by the project in interactive situations

LATO18-1011 Working in a Project: 15 ECTS

KE00BE20 Working in a Project 1: 5 ECTS

Learning outcomes

For 1st-2nd year students learning outcomes for early study phase are applied, and for 3rd-4th year students learning outcomes for the graduation phase.

Early-skill stage/learning outcomes:

The student is able to:

- use the concepts related to the project topic and theme and shows familiar with the paternity-related project data base
- describe the rationale, needs and criteria for project activities
- work in projects in accordance with the administration
- apply professional methods and working practices related to the project topic
- operate safely, ethically and customer-oriented project
- action required by the project in interactive situations
- operate safely, ethically and customer-oriented project

Graduation competence/learning outcomes:

The student is able to:

- use the concepts related to the project in a coherent and justify their actions on the basis of the knowledge base
- find starting points, needs and criteria for project activities

- to act purposefully, to assess the activity and make suggestions for improvement
- applied to the project a variety of different techniques, methods and ways of working
- operate safely, ethically and customer-oriented
- to act responsibly and in a target group and as otherwise required by the project in interactive situations

KE00BE21 Working in a Project 2: 5 ECTS

Learning outcomes

For 1.-2. year students learning outcomes for early study phase are applied, and for 3.-4. year students learning outcomes for the graduation phase.

Early-skill stage/learning outcomes:

The student is able to:

- use the concepts related to the project topic and theme and shows familiar with the paternity-related project data base
- describe the rationale, needs and criteria for project activities
- work in projects in accordance with the administration
- apply professional methods and working practices related to the project topic
- operate safely, ethically and customer-oriented project
- action required by the project in interactive situations
- operate safely, ethically and customer-oriented project

Graduation competence/learning outcomes:

The student is able to:

- use the concepts related to the project in a coherent and justify their actions on the basis of the knowledge base
 - find starting points, needs and criteria for project activities
 - to act purposefully, to assess the activity and make suggestions for improvement
 - applied to the project a variety of different techniques, methods and ways of working
 - operate safely, ethically and customer-oriented
 - to act responsibly and in a target group and as otherwise required by the project in interactive situations
- For 1.-2. year students learning outcomes for early study phase are applied, and for 3.-4. year students learning outcomes for the graduation phase.

Early-skill stage/learning outcomes:

Student is able to:

- use the concepts related to the project topic and theme and shows familiar with the paternity-related project data base
- describe the rationale, needs and criteria for project activities
- work in projects in accordance with the administration
- apply professional methods and working practices related to the project topic
- operate safely, ethically and customer-oriented project
- action required by the project in interactive situations
- operate safely, ethically and customer-oriented project

Graduation competence/learning outcomes:

Student is able to:

- use the concepts related to the project in a coherent and justify their actions on the basis of the knowledge base

- find starting points, needs and criteria for project activities
- to act purposefully, to assess the activity and make suggestions for improvement
- applied to the project a variety of different techniques, methods and ways of working
- operate safely, ethically and customer-oriented
- to act responsibly and in a target group and as otherwise required by the project in interactive situations

KE00BE22 Working in a Project 3: 5 ECTS

Learning outcomes

For 1.-2. year students learning outcomes for early study phase are applied, and for 3.-4. year students learning outcomes for the graduation phase.

Early-skill stage/learning outcomes:

The student is able to:

- use the concepts related to the project topic and theme and shows familiar with the paternity-related project data base
- describe the rationale, needs and criteria for project activities
- work in projects in accordance with the administration
- apply professional methods and working practices related to the project topic
- operate safely, ethically and customer-oriented project
- action required by the project in interactive situations
- operate safely, ethically and customer-oriented project

Graduation competence/learning outcomes:

The student is able to:

- use the concepts related to the project in a coherent and justify their actions on the basis of the knowledge base
- find starting points, needs and criteria for project activities
- to act purposefully, to assess the activity and make suggestions for improvement
- applied to the project a variety of different techniques, methods and ways of working
- operate safely, ethically and customer-oriented
- to act responsibly and in a target group and as otherwise required by the project in interactive situations

LATO18-1012 Event organizing skills: 15 ECTS

LA00BN62 Event organizing skills 1: 5 ECTS

Learning outcomes

The student is able to

- describe the processes and terminology of an event project
- work in a multidisciplinary environment of an event project
- find customer-oriented, sustainable and cost-effective solutions
- work in an communication and co-operation situations during an event project
- evaluate and develop his/hers skills and learning process

LA00BN63 Event organizing skills 2: 5 ECTS

Learning outcomes

The student is able to

- describe the processes and terminology of an event project
- work in a multidisciplinary environment of an event project
- find customer-oriented, sustainable and cost-effective solutions
- work in an communication and co-operation situations during an event project
- evaluate and develop his/hers skills and learning process

LA00BN64 Event organizing skills 3: 5 ECTS**Learning outcomes**

The student is able to

- describe the processes and terminology of an event project
- work in a multidisciplinary environment of an event project
- find customer-oriented, sustainable and cost-effective solutions
- work in an communication and co-operation situations during an event project
- evaluate and develop his/hers skills and learning process

LATO18-1013 Preparatory studies: 21 ECTS**LA00BH85 Preparatory studies in English: 3 ECTS****Learning outcomes**

The student is able to

- master the basic structures of the language well enough to be able to manage further language studies
- understand everyday English
- discuss and write about familiar topics

LA00BH86 Preparatory studies in Swedish: 3 ECTS**Learning outcomes**

The student is able to

- form sentences in order to be able to cope in simple communication situations
- use basic vocabulary related to, for example, social interaction

LA00BI95 Preparatory studies in Finnish: 3 ECTS**Learning outcomes**

The student is able to

- identify the main aspects of language planning
- develop their competence in writing

LA00BH89 Preparatory studies in mathematics, Faculty of Technology: 3 ECTS**Learning outcomes**

The student is able to

- basic mathematical calculations
- calculate and simulate mathematical expressions
- basics of equation
- apply math in problem solving
- solve geometric and trigonometric problems

LA00BH90 Preparatory studies in mathematics, Faculty of Business and Hospitality Management: 3 ECTS

Learning outcomes

The student is able to

- basic mathematical calculations
- basics of percentage calculation
- basics of equation

LA00BF19 Finnish for Foreigners 1: 3 ECTS

Learning outcomes

The student is able to

- identify and use the vocabulary and phrases for common everyday situations
- tell about themselves and understands basic questions
- read and write sentences.

Previous knowledge of Finnish language is not required.

LA00BQ27 Basics of Electrical Engineering: 3 ECTS

Learning outcomes

Student is able to

- basics in direct and alternating current

LATO18-1014 NASA Epic Challenge: 15 ECTS

TE00BE31 NASA Epic Challenge: 5 ECTS

Learning outcomes

Student is able to achieve specific skills certificates:

- Weekly Workflow
- System Architecture
- Morphological Analysis
- PUGH Method
- Experiment Design Level 1
- Experiment Reporting
- Technology Readiness Level 1 report
- Technology Readiness Level 2 report

TE00BM31 NASA Epic Challenge Concept Development: 10 ECTS

Learning outcomes

The student is able to

- do rapid concept development in a team environment
- design experiments
- execute experiments and analyze results
- do full prototype design
- do assumption prioritization

LATO18-1015 Tutorointi: 19 ECTS

KE00BA48 Peer Tutoring: 3 ECTS

Learning outcomes

The student is able to

- familiarize and guide new students as peer tutor in learning environments and studying
- promote a positive learning atmosphere
- act objectively and responsibly
- work in communities and social networks
- evaluate and develop the outcome of his/her action

LA00BN60 Peer Tutoring: 3 ECTS

Learning outcomes

The student is able to

- familiarize and guide new students as peer tutor in learning environments and studying
- promote a positive learning atmosphere
- act objectively and responsibly
- work in communities and social networks
- evaluate and develop the outcome of his/her action

KE00BA47 International tutoring: 3 ECTS

Learning outcomes

The student is able to

- familiarize and guide exchange students as peer tutor in learning environments and studying
- promote a positive learning atmosphere
- act objectively and responsibly
- work in an international context in a foreign language
- evaluate and develop the outcome of his/her action

KE00BA49 International tutoring: 3 ECTS

Learning outcomes

The student is able to

- familiarize and guide exchange students as peer tutor in learning environments and studying
- promote a positive learning atmosphere
- act objectively and responsibly
- work in an international context in a foreign language
- evaluate and develop the outcome of his/her action

KE00BD84 Head Tutoring: 2 ECTS

Learning outcomes

The student is able to

- familiarize and guide peer tutors as head tutor in their job
- organize and lead peer tutoring and plan time management
- work in a variety of interaction, appearance and group tutoring situations
- evaluate and develop the outcome of his/her action

LA00BN61 Head Tutoring: 2 ECTS

Learning outcomes

The student is able to

- familiarize and guide peer tutors as head tutor in their job
- organize and lead peer tutoring and plan time management
- work in a variety of interaction, appearance and group tutoring situations
- evaluate and develop the outcome of his/her action

LA00BQ94 Tipsit – Peer Support Activity: 3 ECTS

Learning outcomes

Students are able to:

- to introduce various methods of coping with the challenges of studying and everyday life and guiding the peers in their use
- to develop own time usage, learning skills and self-knowledge and guide their peers to develop them
- to identify what factors affect overall well-being
- to discuss motivationally, respecting the rules of dialogue and respecting others in various individual and group counselling situations
- to act as a peer support person, understanding and respecting the obligation of secrecy
- to work in a project-based environment and utilize his / her TKI project expertise in his / her own work

LATO18-1016 Student as a developer of higher education: 20 ECTS

LA00BM52 Quality developer in higher education: 5 ECTS

Learning outcomes

The student is able to

- describe the LAMK quality system
- act as a quality developer as part of the institution's quality team

- plan, implement, evaluate and develop quality procedures
- report, evaluate and make recommendations based on feedback

LA00BN96 LAMK Promo: 5 ECTS

Learning outcomes

The student is able to

- plan the content production process
- create content (text, pictures, moving images) for different media in organizational communication
- apply the principles of journalism in the content production process
- build and sustain the corporate image of an organization

LA00BO30 Project for developing services: 5 ECTS

Learning outcomes

The student is able to

- work as part of the Student Consumer Jury (Lahti UAS)
- design, organise and implement service development projects
- make justifiable development suggestions on how to reshape service solutions
- give constructive feedback to the service producer
- evaluate the success of the development activities

LA00BO28 Project for developing services: 5 ECTS

Learning outcomes

The student is able to

- work as part of the Student Consumer Jury (Lahti UAS)
- design, organise and implement service development projects
- make justifiable development suggestions on how to reshape service solutions
- give constructive feedback to the service producer
- evaluate the success of the development activities

LATO18-1017 Developing Intercultural Competence: 0 ECTS

Courses included in the study module

World Cultures

Groups: all degree students, Incoming exchange students

International Intensive Week

Groups: All degree students

Multicultural Teams and Teamworking

Groups: All degree students, Incoming exchange students

Global Competence Training

Groups: students accepted for student exchange or placement abroad

LA00BQ29 Intercultural Awareness: 5 ECTS

Learning outcomes

The student is able to

- recognize features of their own cultural values, assumptions and culturally specific behavior
- understand the existence of different cultures and the effect these cultures have on the national ways of thinking
- explain major intercultural theories and frameworks to understand differences and similarities between cultures

LA00BQ30 Multicultural Teamwork and Leadership: 5 ECTS

Learning outcomes

The student is able to

- recognize how culture affects the working dynamics and outcomes of multicultural teams
- identify and apply theories on the effect of culture in teamwork and leadership
- act effectively in multicultural teams

LA00BQ31 Intercultural Competence Training: 5 ECTS

Learning outcomes

The student is able to

- identify own cultural background and the connection it has to thinking, behaving and communicating in multicultural environments
- analyze and understand the adjustment and adaptation process to a new culture
- demonstrate an ability to draw on major theories and concepts in intercultural situations

LA00BM39 International intensive week: 5 ECTS

Learning outcomes

The student is able to

- communicate professional issues in international and multicultural groups
- organize international team work
- present alternative solutions to a project/case

TE00BE69 Winter School / Circular economy and Life cycle thinking: 5 ECTS

Learning outcomes

Our International Winter School is aimed for students interested in environmental issues with either a technological or a business background, who are particularly interested in how to combine business, technology and the environment.

The main themes are responsible business, life cycle thinking and environmental marketing. The one-week study programme consists of workshops, group work, excursions and lectures. The social programme offers the opportunity to experience Finnish winter and culture with activities, such as sauna bathing and ice fishing.

The student

- knows descriptions and main contents of the Circular Economy concept on various levels: Europe/ national / company
- understands solution models to improve resource efficiency as a part of company's strategies, production and business.
- understands the role of economic, social and environmental responsibility as an integrated part of the corporate strategy and everyday business
- evaluate environmental and social performance of companies

LATO18-1018 Luonnosta hyvinvointia ja liiketoimintaa: 0 ECTS

LA00BQ24 : 5 ECTS

LA00BQ25 : 5 ECTS

LA00BQ26 : 5 ECTS

LATO18-1019 Individual courses, which are not included in any of the modules: 23 ECTS

KE00BD02 Supporting the studies: 3 ECTS

Learning outcomes

The student is able to

- use different methods to solve the problems of learning and studying
- develop time management and learning skills
- develop self-knowledge
- plan his/her finances

LA00BN72 LAMK Sports' learning environment: 5 ECTS

Learning outcomes

The student is able to

- apply the legislation and procedures of the learning environment.
- act objectively and responsibly in the situations of interaction and customer service, in different roles that the learning environment requires.
- fulfil development or marketing project that is suitable to the learning environment (International Business program)
- fulfil exercise instruction or low-threshold wellbeing project that is suitable to the learning environment. (Physiotherapy program)

LA00BN59 Advanced Research Methods: 5 ECTS

Learning outcomes

The student is able to

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

- use appropriate research methods of his/her thesis work
- report his/her findings in thesis

LA00BN97 Advanced Research Methods: 5 ECTS

Learning outcomes

The student is able to

- obtain, utilise and assess thesis-related information and their sources
- follow the rules of ethical principles applied in all research activities of thesis
- use appropriate research methods of his/her thesis work
- report his/her findings in thesis

LA00BN57 The e-learning module on online job hunting: 5 ECTS

Learning outcomes

The student is able to

- identify changes in working life
- identify and demonstrate his/ her skills
- tailor his/her application, CV and a portfolio for available jobs
- utilize different kind of digital tools in looking for a job
- use different services and social media in looking for a job
- identify entrepreneurship as a possibility to employ himself/herself
- use The European Job Mobility Portal and other services to get job from abroad

LATO18-1117 Sportfolio-opinnot: 15 ECTS

LA00BS60 Sportfolio: 5 ECTS

Learning outcomes

The student is able to

- draw up a plan, combining studies and sports
- describe competence gained through sports and explain this as part of professional growth
- plan her/his training and develop as an athlete
- recognise and use the networks and the operating environment created through sports

LA00BS70 : 5 ECTS

Learning outcomes

The student is able to

- draw up a plan, combining studies and sports
- describe competence gained through sports and explain this as part of professional growth
- plan her/his training and develop as an athlete
- recognise and use the networks and the operating environment created through sports

LA00BS71 : 5 ECTS

Learning outcomes

The student is able to

- draw up a plan, combining studies and sports
- describe competence gained through sports and explain this as part of professional growth
- plan her/his training and develop as an athlete
- recognise and use the networks and the operating environment created through sports

LATO18-1020 Modules of Faculty of Business and Hospitality Management available: 615 ECTS**LATO18-1022 Management and operation of the workplace: 15 ECTS****LI00BH92 Workplace Skills: 5 ECTS****Learning outcomes**

The student is able to

- assess their own role as well as the role and responsibilities of the personnel in the work community
- work in teams with different people
- develop the work community as well as assess and develop their own workplace skills.

LI00BH93 Manager's Toolkit: 5 ECTS**Learning outcomes**

The student is able to

- select and exploit a variety of managerial tools in order to support the development of the team, as well as their own work
- reflect upon their own well-being and boost it
- assess and develop their communication and interpersonal skills.

LI00BH94 Employment Regulations: 5 ECTS**Learning outcomes**

The student is able to

- explain the objectives of labour regulation and their practical significance, particularly from the viewpoint of managerial operations
- describe the main labour laws
- manage employment relationships.

LATO18-1023 People – the makers of success: 15 ECTS**LI00BH95 Human Resource Management: 5 ECTS****Learning outcomes**

The student is able to

- analyse the strategic importance of human resource management

- describe and evaluate a company's human resource functions
- analyse the specific features of human resource management.

LI00BH96 Diversity as an Organisational Asset: 5 ECTS

Learning outcomes

The student is able to

- look at diversity and equality from the perspective of management, operations planning and workplace practices
- obtain information about the organisation to determine its diversity and the need thereof, as well as generally take advantage of diversity as an organisational resource
- apply different concepts and practices related to the management of diversity in human resource management in an international context.

LI00BH97 A Healthy and Responsible Organisation: 5 ECTS

Learning outcomes

The student is able to

- look at overall well-being as part of responsible business from the perspective of a company, work community and individuals
- apply the principles of ethical and responsible management in one's own operations, the workplace and the organisation
- ask relevant questions and acquire answers relative to ethical and responsible operation and management.

LATO18-1024 Strategic management: 15 ECTS

LI00BH98 Management Trends: 5 ECTS

Learning outcomes

The student is able to

- critically examine trends in a variety of leadership and management theories, including virtual management, distance and multilocality management, shared management, enabling leadership
- develop their own leadership thinking
- approach management and leadership from different perspectives.

LI00BH99 Strategic management: 10 ECTS

Learning outcomes

The student is able to

- justify the role of the mission, vision and strategy in the planning of an organisation's activities
- generally analyse and predict a company's operations and business environment
- draw up, based on analyses, a concrete annual work plan for the company, including interim plans and budgeting

LATO18-1025 Good practices in financial reporting: 15 ECTS

LI00BI00 Bookkeeping and Balancing the Books: 5 ECTS

Learning outcomes

The student is able to

- record different kinds of accounting events such as discounts, freight costs, credit losses and salaries
- target costs and income at different accounting periods
- use computerised accounting for bookkeeping and preparing financial statements

LI00BI01 Preparing Annual Financial Statements: 5 ECTS

Learning outcomes

The student is able to

- prepare a limited company's annual financial statements according to legislation
- monitor a housing company's and an association's finances and prepare their annual financial statements

LI00BI02 Financial Statement Analysis and Auditing: 5 ECTS

Learning outcomes

The student is able to

- draw up a financial statement analysis by using different kinds of analysis methods
- describe the key regulations related to auditing
- draw up auditing reports

LATO18-1026 Taxation and financial statement planning: 15 ECTS

LI00BI03 Value-added Taxation: 5 ECTS

Learning outcomes

The student is able to

- describe the central decrees in value-added taxation
- solve issues related to value-added taxation in both domestic and international trade and post such entries to a company's books
- fill in official value-added taxation forms

LI00BI04 Corporate Taxation and Financial Statement Planning: 5 ECTS

Learning outcomes

The student is able to

- calculate a company's income tax and shareholder taxes
- describe the basic principles of corporate taxation
- plan a company's financial statements from a taxation perspective

LI00BI05 Payroll Accounting and Personal Taxation: 5 ECTS

Learning outcomes

The student is able to

- calculate net salaries in practical real-life situations
- explain the norms related to personal taxation
- solve judicial problems related to personal taxation

LATO18-1027 Management accounting: 15 ECTS**LI00BI06 Financial Planning and Monitoring: 5 ECTS****Learning outcomes**

The student is able to

- create calculations and reports to support operative planning and management
- draw up budgets to support business operations

LI00BI07 Cost Accounting and Pricing: 5 ECTS**Learning outcomes**

The student is able to

- use and apply key methods in cost accounting
- price products and services by using cost-based pricing

LI00BI08 Accounting to Support Business Decisions: 5 ECTS**Learning outcomes**

The student is able to

- utilise accounting information in planning and monitoring business activities
- use strategic management tools in business planning and decision making

LATO18-1028 Financing and investment activities: 15 ECTS**LI00BI09 Financial Markets: 5 ECTS****Learning outcomes**

The student is able to

- look for financing from financial markets to fund a company's operations
- estimate the needed amount of capital
- describe the key banking and financing norms

LI00BI10 Savings and Investments: 5 ECTS**Learning outcomes**

The student is able to

- draw up an investment plan and choose the appropriate investment instruments to an investment portfolio

- calculate the return on investment and evaluate investment risks based on different key ratios

LI00BI11 Managing Funding Risks: 5 ECTS

Learning outcomes

The student is able to

- plan a company's capital structure and cash management
- draw up investment calculations
- hedge against exchange rate movements and interest rate risks

LATO18-1029 Financial Management: 15 ECTS

LI00BI12 Management Accounting: 5 ECTS

Learning outcomes

The student is able to

- produce cost-volume-profit analyses
- explain the role and function of cost accounting and apply the cost data in price setting
- prepare and interpret budgets
- apply management accounting practices in making business decisions

LI00BI13 Corporate Finance: 5 ECTS

Learning outcomes

The student is able to

- find sources of finance for a company
- apply investment appraisal methods when making decisions
- use methods of international payments
- hedge against financial risks

LI00BI14 Financial Planning: 5 ECTS

Learning outcomes

The student is able to

- draw up financial forecasts
- solve managerial and financial problems at strategic level with the help of real life cases and appropriate tools

LATO18-1030 Digital Marketing: 15 ECTS

LI00BI15 Digital Marketing: 15 ECTS

Learning outcomes

The student is able to

- explain the role of the digital marketing strategies of successful businesses

- recognise the features of different channels/platforms related to a company's objectives
- create an effective, target-group oriented marketing plan for engaging digital customers
- apply social media as strategic and tactical tool for various marketing purposes
- design active content and marketing communication material according to an integrative marketing strategy
- utilise various analytical tools
- develop web content using basics of search engine optimisation
- appreciate the juridical aspects of digital marketing

LATO18-1031 Customer Relationship and Sales Management: 15 ECTS

LI00BI17 Customer Relationship Management: 5 ECTS

Learning outcomes

The student is able to

- explain how customer orientation and related concepts are a key factor in corporate success
- choose and apply methods and tools for customer relationship management
- choose and use IT solutions that are appropriate for the management and development of customer relationships

LI00BI18 Customer Experience: 5 ECTS

Learning outcomes

The student is able to

- describe the framework of customer experience
- find reliable information about established methods and tools that are utilised in customer experience management
- choose appropriate methods for describing and developing customer experience

LI00BI19 Customer Acquisition and Service Encounter: 5 ECTS

Learning outcomes

The student is able to

- explain the role of customer acquisition in the sales process
- describe how customers' feelings can be influenced through interaction
- apply different types of questions appropriately to service encounters

LATO18-1032 Retail chain management: 15 ECTS

LI00BI22 Retail Business Models and Marketing: 5 ECTS

Learning outcomes

The student is able to

- demonstrate overall understanding of the retail sector and tasks
- define retail target groups
- demonstrate knowledge of competition methods in retail
- adapt and deliver a retail chain concept and customer proposition

- apply a quality philosophy in retail

LI00BI23 Departmental HR and Sales Management: 5 ECTS

Learning outcomes

The student is able to

- use retail HR management tools at the department level
- interpret retail business indicators at the department level

LI00BI24 Retail Business Indicators and Management: 5 ECTS

Learning outcomes

The student is able to

- plan retail business operations and finances at the department level
- demonstrate entrepreneurial skills in retail

LATO18-1033 Building and launching a brand: 15 ECTS

LI00BI20 Brand Building and Launch: 10 ECTS

Learning outcomes

The student is able to

- build a customer-oriented brand
- design a marketing plan for the brand to be launched with its various subareas
- make use of media relations in creating a brand

LI00BI21 Production of Communication Material: 5 ECTS

Learning outcomes

The student is able to

- use image processing software
- produce completed material, both printed and digital, for a company or organisation with the help of Photoshop or InDesign image processing programme
- produce material for electronic publishing
- explain the role and possibilities of communication in an organisation's operations

LATO18-1034 International Logistical Services: 15 ECTS

LI00BI25 Transport and Forwarding: 5 ECTS

Learning outcomes

The student is able to

- evaluate the advantages and disadvantages of different modes of transport
- describe the duties of a forwarder and the relations between the forwarding company and the client
- manage the most common import and export duties and explicate different kinds of forwarding documents

LI00BI26 Operational Environment in International Trade: 5 ECTS

Learning outcomes

The student is able to

- evaluate the role of legal risk management in successful international business
- apply international legal risk management in business contracts
- describe the impacts of exchange markets and currency fluctuations in international trade

LI00BI17 Customer Relationship Management: 5 ECTS

Learning outcomes

The student is able to

- explain how customer orientation and related concepts are a key factor in corporate success
- choose and apply methods and tools for customer relationship management
- choose and use IT solutions that are appropriate for the management and development of customer relationships

LI00BI18 Customer Experience: 5 ECTS

Learning outcomes

The student is able to

- describe the framework of customer experience
- find reliable information about established methods and tools that are utilised in customer experience management
- choose appropriate methods for describing and developing customer experience

LI00BI19 Customer Acquisition and Service Encounter: 5 ECTS

Learning outcomes

The student is able to

- explain the role of customer acquisition in the sales process
- describe how customers' feelings can be influenced through interaction
- apply different types of questions appropriately to service encounters

LATO18-1035 Supply Web Development: 15 ECTS

LI00BI28 Supply Network Development Tools: 5 ECTS

Learning outcomes

The student is able to

- describe the significance of a supply network in achieving company competitiveness and customer benefit
- exploit the tools of supply network development

LI00BI29 SAP ERP System: 5 ECTS

Learning outcomes

The student is able to

- describe the principles of an integrated ERP system
- use the SAP ERP system in a company's order/supply chain management

LI00BI30 Lean Thinking and Optimisation: 5 ECTS

Learning outcomes

The student is able to

- describe the principles of linear optimisation
- structure, analyse and solve commercial problems using linear optimisation
- describe the values, principles and goals of Lean activities
- apply Lean principles and tools in a chosen real process

LATO18-1036 Procurement: 15 ECTS

LI00BI31 Procurement Management and Development: 10 ECTS

Learning outcomes

The student is able to

- describe the significance of procurement for organisational competitiveness
- use procurement development tools
- protect themselves against legal risks
- communicate in negotiation situations and roles

LI00BI32 Public Contracts: 5 ECTS

Learning outcomes

The student is able to

- describe the objectives and main principles of public contract regulations
- describe the content in procurement regulations and the phases of procurement process in national as well as EU contracts exceeding the threshold value
- act in public procurement tendering of over or under the threshold value both as a buyer and a bidder

LI00BI33 Current and Future Trends of Supply Chain: 5 ECTS

Learning outcomes

The student is able to

- recognise the current issues and future trends in supply chains and logistics worldwide
- analyse research and case information and apply it within the field of international logistics and supply chains

LATO18-1037 International Supply Chain Management: 15 ECTS

LI00BI34 Procurement & Production Operations Management and Development: 10 ECTS

Learning outcomes

The student is able to

- describe the meaning of procurement and production operations activities for a company's business and competitiveness
- develop an organisation's procurement and production operations activities
- apply legal risk management related to supply chain

LI00BI35 Distribution Management and Development: 10 ECTS

Learning outcomes

The student is able to

- explain the whole distribution chain from the beginning to the final delivery
- describe the interconnection between inbound, in-house and outbound logistics
- explain the essential issues of transport laws, Finnish national Transport Law and International Conventions

LI00BI33 Current and Future Trends of Supply Chain: 5 ECTS

Learning outcomes

The student is able to

- recognise the current issues and future trends in supply chains and logistics worldwide
- analyse research and case information and apply it within the field of international logistics and supply chains

LATO18-1038 Supply Web Development: 15 ECTS

LI00BI36 Toolkit for Supply Chain Development: 5 ECTS

Learning outcomes

The student is able to

- describe the significance of a supply network in achieving company competitiveness and customer benefit
- exploit the tools of supply network development

LI00BI37 SAP ERP Systems: 5 ECTS

Learning outcomes

The student is able to

- describe the principles of an integrated ERP system
- use the SAP ERP system in a company's order/supply chain management

LI00BI38 Supply Chain Optimisation and Lean Thinking: 5 ECTS

Learning outcomes

The student is able to

- describe the principles of linear optimisation
- structure, analyse and solve commercial problems using linear optimisation
- describe the values, principles and goals of Lean activities
- apply Lean principles and tools in a chosen real process

LATO18-1039 Commercialisation competence: 15 ECTS**LI00BI39 Creating Service Concepts: 5 ECTS****Learning outcomes**

The student is able to

- utilise customer information in offering solutions
- develop different service concepts
- evaluate and develop customer experience

LI00BI40 Mass Customisation and User-Centeredness: 5 ECTS**Learning outcomes**

The student is able to

- gather and identify user information
- plan mass-customised services based on user needs
- act responsibly in a service development project

LI00BI41 Differentiation - Competitive Edge through Diversification: 5 ECTS**Learning outcomes**

The student is able to

- utilise different ways to stand out in competition
- implement differentiation in different kinds of services
- analyse their own and the team's actions in a service development project

LATO18-1040 Service competence: 15 ECTS**LI00BI42 Service Concepts: 5 ECTS****Learning outcomes**

The student is able to

- offer solutions to a customer in a service situation
- identify different service concepts
- evaluate the success of service

LI00BI43 Changes in Consumer Behaviour: 5 ECTS

Learning outcomes

The student is able to

- identify different kinds of customers
- act in a customer-oriented way
- outline the market situation of services

LI00BI44 Developing Customer Service Skills: 5 ECTS**Learning outcomes**

The student is able to

- act in different kinds of customer service situations
- develop themselves as a customer servant
- gather customer information

LATO18-1041 Opportunities in services: 15 ECTS**LI00BI45 Service Processes in the Public Sector: 5 ECTS****Learning outcomes**

The student is able to

- analyse the public and third sector operating conditions and the related legislation
- identify information systems supporting and enabling the public and third sector service processes
- evaluate and develop customer-oriented service processes based on a partner's needs

LI00BI47 Processes and Information Systems in Social and Health Care: 5 ECTS**Learning outcomes**

The student is able to

- describe and develop social and health care service system processes based on a partner's needs
- identify operative information systems and their future development needs in social and health care
- identify the importance of client value, data protection and information security in social and health care

LI00BI48 Digitality in Industrial Services: 5 ECTS**Learning outcomes**

The student is able to

- design and describe a digital service in order to support a client's operations
- evaluate the user experience of a digital service
- instruct and support a client in deploying a digital service

LI00BJ56 Health Care Logistics: 5 ECTS**Learning outcomes**

The student is able to

- plan, manage and develop logistic chains

- secure the availability of health care products in every situation by taking patient safety into account
- put together the different areas of logistics and produce a service standard based on them

LATO18-1042 Leisure and Well-Being Services: 15 ECTS

LI00BI49 International Tourism and Leisure Industry: 5 ECTS

Learning outcomes

The student is able to

- describe the international tourism eco-system/cluster/supply chains
- create value in the leisure industry
- analyse the challenges and opportunities of global competition of people's free-time
- analyse the synergy of leisure, tourism and well-being services

LI00BI50 Leisure in Rural Areas: 5 ECTS

Learning outcomes

The student is able to

- take into account the challenges and possibilities of sustainable development in rural leisure and tourism
- analyse the competitiveness of rural, nature and recreation areas as a source of added value for international customers
- develop leisure, tourism and well-being services in rural environment

LI00BI51 User-Orientation in Leisure and Well-Being Experiences: 5 ECTS

Learning outcomes

The student is able to

- demonstrate the value of experiential events in marketing and branding
- analyse holistic leisure and well-being experiences from a user's perspective
- evaluate experience business opportunities for global leisure and well-being markets

LATO18-1043 Software business: 15 ECTS

LI00BI52 Software Development Process: 5 ECTS

Learning outcomes

The student is able to

- develop software development processes systematically
- study software product markets
- analyse the life cycle of a software product

LI00BI53 Software Productisation: 5 ECTS

Learning outcomes

The student is able to

- create a software product management plan
- analyse the cost structure of a software product
- choose proper sales, marketing and distribution channels for a product

LI00BI54 Business Environment in Software Industry: 5 ECTS

Learning outcomes

The student is able to

- identify the specific features of the software industry and how they affect one's actions
- evaluate the role of internationalisation and networking in the software industry
- analyse funding models in the software industry

LATO18-1044 Business Intelligence: 20 ECTS

LI00BI55 Data Streams in Business: 5 ECTS

Learning outcomes

The student is able to

- recognise information and data stream sources creating value for business
- use tools for gathering, saving and analysing data
- visualise and edit received data and evaluate it

LI00BR37 Data Streams in Business: 5 ECTS

Learning outcomes

The student is able to

- recognise information and data stream sources creating value for business
- use tools for gathering, saving and analysing data
- visualise and edit received data and evaluate it

LI00BS44 : 5 ECTS

Learning outcomes

Learning outcomes

The student is able to

- describe the integration of data analytics into business processes
- produce exact and predictive information for varied business purposes
- visualise and edit received data and evaluate it

LI00BI57 Effective Use of Office Applications: 5 ECTS

Learning outcomes

The student is able to

- use office applications in various solution-oriented ways
- implement automatised solutions to enhance business
- use office applications for reporting and creating visual presentations

LATO18-1045 Competitive Edge through Information Systems: 15 ECTS

LI00BI58 Digital Strategy: 5 ECTS

Learning outcomes

The student is able to

- describe digitisation trends and analyse the related opportunities and threats
- create a digital strategy for an organisation
- describe the actions needed to implement a digital strategy

LI00BI59 Enterprise Architecture: 5 ECTS

Learning outcomes

The student is able to

- justify the benefits of enterprise architecture in business development
- describe the business processes of a company
- describe the enterprise architecture of a company

LI00BI60 Software Procurement and Deployment: 5 ECTS

Learning outcomes

The student is able to

- create software requirement specifications to develop business
- choose the most suitable option from a range of software options
- plan software deployment in an organisation

LATO18-1046 Getting the Most from Online Business: 15 ECTS

LI00BI61 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

LI00BI62 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

LI00BI63 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

LATO18-1047 Customer Experience Development: 15 ECTS

LI00BI64 Customer Experience: 5 ECTS

Learning outcomes

The student is able to

- describe the framework of customer experience
- find reliable information about established methods and tools that are utilised in customer experience management
- choose appropriate methods for describing and developing customer experience

LI00BI65 Measuring Customer Experience: 5 ECTS

Learning outcomes

The student is able to

- choose customer experience metrics suitable for set objectives
- plan and implement customer experience measurement
- utilise the data gathered on customer experience to develop business operations

LI00BI66 Future Customer Paths: 5 ECTS

Learning outcomes

The student is able to

- describe existing digital solutions as part of a customer path
- explain megatrends affecting customer paths
- ideate and implement a prototype of a future customer path

LATO18-1048 IT Project: 15 ECTS

LI00BI68 Project Communication and Reporting: 5 ECTS

Learning outcomes

The student is able to

- communicate effectively and distribute information in project meetings
- produce concise professional project documentation
- prepare and give engaging professional presentations
- communicate with various project stakeholders

LI00BI69 Real-Life IT Project and Practices: 10 ECTS

Learning outcomes

The student is able to

- take responsibility over different roles in an IT project
- apply existing and new professional technical skills and knowledge in solving the given problem
- act responsibly as a member of a project group
- apply different methods and practical tools in project preparation and management
- create project documentation and take care of version control

LATO18-1049 English Business Communication: 15 ECTS

LI00BI70 English in Professional Contexts: 5 ECTS

Learning outcomes

The student is able to

- communicate professionally in the areas of business in English
- understand and produce field-specific texts
- appreciate cultural influences in different business situations

LI00BI71 Techniques and Tools for Writing: 5 ECTS

Learning outcomes

The student is able to

- apply different writing strategies to become a better business writer
- gather, analyse and organise information in order to produce clear and concise texts for specific purposes
- demonstrate proper use of English as applied in professional communication

LI00BI72 Persuasive Communication: 5 ECTS

Learning outcomes

The student is able to

- appreciate the role of persuasive communication in various organisational contexts
- present, justify and defend ideas and opinions
- convince a demanding audience

LATO18-1050 Swedish Language Courses: 15 ECTS

LI00BI73 Swedish for the Workplace: 5 ECTS

Learning outcomes

The student is able to

- describe their own field of business both orally and in writing
- manage orally and in writing in key communication situations of their own field

LI00BI74 Current Issues in Business World in Swedish: 5 ECTS

Learning outcomes

The student is able to

- follow current events of the business world in general and from the point of view of their specialisation field
- examine Nordic economies based on a chosen theme

LI00BI75 Swedish Oral Skills: 5 ECTS

Learning outcomes

The student is able to

- activate and develop their oral communication skills in everyday as well as in working life communication situations

LATO18-1051 German Language Courses: 15 ECTS

LI00BI76 Refresher Course in German: 5 ECTS

Learning outcomes

The student is able to

- tell about themselves, their education and career plans
- discuss topics related to e.g. living, free time and travelling
- demonstrate a command of the basic structures of the German language to be able to cope in simple everyday situations

LI00BI77 German for the Workplace 1: 5 ECTS

Learning outcomes

The student is able to

- write a CV in German and communicate in a job interview
- introduce a company and job duties in German and communicate on the telephone

LI00BI78 German for the Workplace 2: 5 ECTS

Learning outcomes

The student is able to

- communicate in a trade fair setting, make purchases and sales both as customer and representative in accordance with German communication customs

LATO18-1052 Russian Language Courses: 15 ECTS

LI00BI79 Russian Basics 1: 5 ECTS

Learning outcomes

The student is able to

- demonstrate a command of the Cyrillic alphabet and Russian pronunciation rules
- give information about themselves and their family and home towns both orally and in writing and inquire about these in discussions
- master basic discussions and understand short texts related to basic interaction situations and cope in simple everyday situations in Russian

LI00BI80 Russian Basics 2: 5 ECTS

Learning outcomes

The student is able to

- read and write Russian reasonably well and develop further their pronunciation skills
- describe their leisure-time activities, hobbies and establish relationships in the Russian language
- express congratulations and make a toast
- demonstrate a command of vocabulary and discussions related to meals, purchases, travel and hotel reservations and is encouraged to take part in them

LI00BI81 Russian for Business Communication: 5 ECTS

Learning outcomes

The student is able to

- demonstrate a command of the main structures of the Russian language and use them in oral and written situations
- establish basic business relationships and agree on appointments or discuss orders on the phone and electronically
- request to speak to someone on the telephone, leave and pass on messages
- discuss the Russian business world and initiate themselves into these matters

LATO18-1053 French Language Courses: 15 ECTS

LI00BI82 French Basics 1: 5 ECTS

Learning outcomes

The student is able to

- master the pronunciation rules and intonation of the French language
- demonstrate a command of the most common verbs and their conjugation
- tell about themselves and family
- order in a café and inquire about the price

LI00BI83 French Basics 2: 5 ECTS

Learning outcomes

The student is able to

- demonstrate a command of basic grammatical structures
- express themselves and their preferences
- compare things and act in a purchasing situation
- describe events in the past tense

LI00BI84 French for the Workplace: 5 ECTS

Learning outcomes

The student is able to

- communicate in basic workplace situations
- describe their work in French
- introduce a business and its core activities in French
- demonstrate a command of verbs (i.a. conditional and future tenses)

LATO18-1054 Spanish Language Courses: 15 ECTS

LI00BI85 Spanish Basics 1: 5 ECTS

Learning outcomes

The student is able to

- greet and give information about themselves and their family
- demonstrate a command of the most common verbs and their conjugation
- order in a café and inquire about the price

LI00BI86 Spanish Basics 2: 5 ECTS

Learning outcomes

The student is able to

- communicate in restaurants and shops
- express their opinion and discuss leisure-time activities and travelling
- give information about their home towns and give directions to visitors
- describe what they have done

LI00BI87 Spanish for the workplace: 5 ECTS

Learning outcomes

The student is able to

- demonstrate a command of workplace vocabulary and knowledge of Spanish-language societies and cultures
- demonstrate expanded knowledge of business vocabulary and introduce the core activities of a company in Spanish
- demonstrate a command of verb forms (e.g. the imperative and conditional)
- express and justify their opinions

LATO18-1055 Market Orientation: 15 ECTS

LI00BI88 Doing Business with the Russians: Opportunities & Challenges: 5 ECTS

Learning outcomes

The student is able to

- acquire new understanding of key issues of doing business in Russia

- develop skills in efficient communication, team building, decision making and negotiating with Russians
- appreciate Russian cultural, political and historical situation and its significance for cross-cultural management, both in past and present times.

LI00BI89 Breaking into Asian Markets: 5 ECTS

Learning outcomes

The student is able to

- develop an understanding of Asian countries' role and status in the global economy
- develop an understanding of the core factors related to economic, political, legal, technological, environmental, and cultural environments of a chosen Asian market
- develop an understanding of the business environment of the chosen Asian market, its opportunities and challenges

LI00BI90 Fundamentals of Professional Selling: 5 ECTS

Learning outcomes

The student is able to

- recognise what professional selling is and what areas of expertise are included in it
- acquire understanding of different personality types and recognise them in others
- gain a rudimental understanding on how to tailor their sales approach according to each type
- tailor their selling process so that it matches the buying process of the customer

LATO18-1056 International Business Operations: 15 ECTS

LI00BI91 Internationalisation Process: 5 ECTS

Learning outcomes

The student is able to

- acquire an understanding of how to evaluate a firm's readiness to internationalise and create international competitiveness
- acquire an understanding of market selection process and entry mode options
- develop skills to use decision-oriented framework when evaluating and choosing between different strategic options

LI00BI92 International Economics: 5 ECTS

Learning outcomes

The student is able to

- recognise the different levels of economic integration
- describe the basic mechanism of foreign exchange market
- explain the problems of developing countries in the world market

LI00BI93 International Marketing: 5 ECTS

Learning outcomes

The student is able to

- apply appropriate tools to critically identify and establish a new collaborative international market opportunity
- utilise strategic thinking to approach and develop a contemporary international market opportunity, including tactical choices about product, pricing, distribution channel and communication
- create and present an innovative solution to their strategic international market opportunity and address the relevant risks

LATO18-1057 Specialisation Studies: 15 ECTS**LI00BJ58 NIBS Case Competition, International Business Strategy: 5 ECTS****Learning outcomes**

The student is able to

- read cases, solve cases and present solutions
- apply critical thinking skills to complex business problems
- develop skills to identify and evaluate key issues, generate and evaluate possible solutions to the problems, recommend solutions and communicate these in an effective manner

LI00BJ59 Ethics, Environment and Business: 5 ECTS**Learning outcomes**

The student is able to

- critically analyse and evaluate information in relation to corporate responsibility and sustainable development
- implement ethical, social and environmental aspects into the corporate strategic decision-making and into practice
- resolve complex social and environmental business matters

LI00BJ60 GetEmployed - Työllisty!: 5 ECTS**Learning outcomes**

The student is able to

- recognise their own competences and create professional goals and professional identity
- recognise the practices and the rules of Finnish work life and create useful contacts and networks for the future career
- demonstrate mastery of the job application process, creating job application documents (application, CV, video CV) and acting during a job application process

LATO18-1058 Presentation and Literacy Skills: 10 ECTS**LI00BJ63 Powerful Presentations: 5 ECTS****Learning outcomes**

The student is able to

- express themselves appropriately

- control their nerves
- produce expert talks in different working life communication situations.

LI00BJ64 Texts for Publication: 5 ECTS

Learning outcomes

The student is able to

- identify texts suitable for publication in accordance with the requirements of different text genres
- produce high-quality expert texts for different purposes (e.g. articles, reports, blogs, web texts, texts relating to their own entrepreneurship)
- work with and develop their own text for publication.

LATO18-1059 Finnish for Foreigners: 15 ECTS

LI00BJ65 Finnish for Foreigners 2: 5 ECTS

Learning outcomes

The student is able to

- communicate in most common everyday situations
- understand slowly and clearly spoken Finnish provided the topic and the vocabulary are connected with their own life and experience
- understand the key idea of a simple message or text and write one by themselves
- master the most common vocabulary and some grammatical structures of Finnish.

LI00BJ66 Finnish for Foreigners 3: 5 ECTS

Learning outcomes

The student is able to

- communicate in common everyday situations
- write short and simple text connected with everyday situations
- master the basic grammatical structures of Finnish
- act, to some extent, in a Finnish community and in their phase of study by using Finnish.

LI00BJ67 Finnish for Foreigners 4: 5 ECTS

Learning outcomes

The student is able to

- comprehend and produce Finnish well enough to cope adequately in daily social interaction situations
- use the basic grammatical structures of Finnish
- cope in oral and written job search situations in their own area of study

LATO18-1060 Real estate business specialist: 30 ECTS

LATO18-1061 Operating environment in real estate business: 15 ECTS

LI00BM40 Real estate industry: 5 ECTS

Learning outcomes

The student is able to

- operate responsibly as a real estate agent
- explain the basics of rent legislation and the basics of real estate appraisal
- manage a real estate agency's operations and finances

LI00BM41 Real estate legislation: 5 ECTS

Learning outcomes

The student is able to

- explain the basics of property, family and inheritance law
- draw up real estate brokerage contracts
- describe the key objectives and the practical relevance of real estate legislation

LI00BM42 Technical features of properties: 5 ECTS

Learning outcomes

The student is able to

- explain the basic principles of property formation and land-use planning
- describe the basics of different kinds of building structures and building materials
- identify the basic elements of repair construction and common structural damages and the means to repair them

LATO18-1062 Real estate brokerage and business: 15 ECTS

LI00BM43 Marketing property and real estate agency services: 4 ECTS

Learning outcomes

The student is able to

- identify suitable means of marketing for real estate business
- create marketing material
- price a property
- manage profitable sales and sales work

LI00BM44 Brokering a property: 4 ECTS

Learning outcomes

The student is able to

- describe the taxation affecting a property deal
- describe the process regarding the right of lien and the registration of title to a property
- draw up property deal documents and is familiar with the bidding process

LI00BM45 Brokering a housing company share: 4 ECTS

Learning outcomes

The student is able to

- describe the taxation affecting a housing company share deal
- analyse the financial statement of a housing company
- explain the contents of the documents related to a housing company share deal to the client
- draw up the housing company share deal documents and is familiar with the bidding process

LI00BM46 Preparing for the qualification test for licensed real estate agents: 3 ECTS**Learning outcomes**

The student is able to

- search for information and apply his/her expertise in solving practical problems in the real estate industry

LATO18-1021 Individual courses, which are not included in any of the modules: 0 ECTS**LATO18-1102 SME's digital marketing: 15 ECTS****LI00BR25 SME's digital marketing: 15 ECTS****Learning outcomes**

The student is be able to

- explain the role of digital marketing strategies in successful businesses
- recognise the key features of the different channels/platforms related to a company's objectives
- create an effective, target-group oriented digital marketing plan for engaging customers
- apply social media as a strategic and tactical tool for various marketing purposes
- design content and marketing communication material according to an integrative marketing strategy
- utilise various analytical tools
- develop web content using the basics of search engine optimisation
- appreciate the legal aspects of digital marketing

LATO18-1103 Applications: 15 ECTS**LI00BR26 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

LI00BR27 Data Storages: 5 ECTS

Learning outcomes

Student is able to

- understand the basic principles of relational database design
- use database transactions in an application
- explain the uses of alternative database systems

LI00BR28 Applications Project: 5 ECTS**Learning outcomes**

Student is able to

- plan and implement an application development project based on the user needs
- describe different roles of persons in a software development project and apply one of them
- create an application software applying a modular, multitier software architecture
- understand the role of the test activities throughout the project lifecycle for the software quality

LATO18-1063 Modules of Institute of Design and Fine Arts available: 395 ECTS**LATO18-1065 Arts studies: 15 ECTS****MI00BL30 The scale of human: 5 ECTS****Learning outcomes**

The student is able to

- define the form, structure and motion of a human body
- select appropriate drawing and painting materials and techniques to realize her/his own expression
- visually express her/his own imaginations
- depict spaces and 3-dimensional forms with light and colour

MI00BL31 Sculpture: 5 ECTS**Learning outcomes**

The student is able to

- recognise and discuss common techniques and materials of 3-dimensional work
- apply common techniques and materials of 3-dimensional work in their own expression
- recognise and discuss the importance of space and colour in 3-dimensional work

MI00BL51 Experimental arts workshop: 5 ECTS**Learning outcomes**

The student is able to

- creatively plan unconventional artistic projects
- utilize and visually combine a plurality of means of expression in his or hers own artistic expression
- discuss the language and theoretical backgrounds of modern art.

LATO18-1066 Concept design work: 10 ECTS

MI00BM02 Concept Design: 5 ECTS

Learning outcomes

The student is able to

- design a conceptual scenario by using storyboarding techniques
- use digital drawing to create storyboards

MI00BM04 Concept Art Drawing: 5 ECTS

Learning outcomes

The student is able to

- digitally draw or paint concept art
- describe opportunities and restrictions of handmade and digital visualization techniques
- use artistic and design drawing skills to visualize concepts

LATO18-1067 Creative Design Work 2: 15 ECTS

MI00BN73 Professional Software Tools: 5 ECTS

Learning outcomes

The student is able to

- choose software tools for the design or production task at hand
- use the abilities of those software to complete an assignment

MI00BN74 Three-dimensional Modelling Project 2: 5 ECTS

Learning outcomes

The student is able to

- utilize the properties and typical structural solutions for the material in their work
- use modelling or model-building tools to support design work

MI00BM47 Design studio work: 5 ECTS

Learning outcomes

The student is able to

- plan a realistic working schedule to support his/her work
- phase studio work into its different stages
- create a full specification and manufacturing instructions for a product

LATO18-1110 History and theory of visual communication: 15 ECTS

MI00BR93 History of graphic communication: 5 ECTS

Learning outcomes

The student is able to

- relate stages in the history of graphic communication to contemporary phenomena and the development of society
- identify different period styles in visual elements and typography
- know how to seek information about the history and research of graphic communication.

MI00BR94 History of photography: 5 ECTS

Learning outcomes

The student is able to

- relate stages in the history of photography to contemporary phenomena and the development of society
- link photographers to historical periods
- know how to seek information about the history and research of photography.

MI00BL32 Visual Culture Theory: 5 ECTS

Learning outcomes

The student is able to

- describe current visual culture theories
- independently search for information about different theories from both printed and digital sources
- apply theoretical models and concepts in design and the evaluation of her or his work

MI00BR92 Image and user: 5 ECTS

Learning outcomes

The student is able to

- search for information sources and present her or his findings to support a visual study
- assess visual material from the viewpoints of its information content, interpreted meanings and its user experience
- choose, explain and apply methods and techniques covered during this course.

LATO18-1069 Printed Textiles Design: 15 ECTS

MI00BM09 Printed Textiles Design: 5 ECTS

Learning outcomes

The student is able to

- distinguish between different printing methods for textile materials
- recognise the principles of different printing techniques
- use different printing techniques and how to create a print on a base material
- design a print using a silk-screen printing technique

MI00BM10 Special Printing Methods and Material Treatments: 5 ECTS

Learning outcomes

The student is able to

- recognise special printing methods for textiles
- shape textiles using different methods
- analyse and compare the environmental impact of different techniques
- use textile materials creatively in design work

MI00BM13 Ethical and Ecological Issues in Textiles and Clothing: 5 ECTS

Learning outcomes

The student is able to

- assess textiles and clothes and their production from the viewpoints of sustainability and the environment
- interpret and apply the ethical and ecological principles to her/his own design work
- explain and present her/his design choices from the perspective of ethical and ecological principles

LATO18-1070 Knitwear Design and Technologies: 15 ECTS

MI00BM11 Knitwear Design Basics: 5 ECTS

Learning outcomes

The student is able to

- recognize the differences between knitwear and fabric clothing
- design functional knitted clothing or accessories
- recognize different knitting techniques
- recognize the properties of different yarns and other knittable materials

MI00BM12 Knitting Technology: 5 ECTS

Learning outcomes

The student is able to

- recognize different knitting techniques
- manufacture different knits using a manual knitting machine
- choose appropriate yarns or other materials for knitting
- design patterns for knitted products
- produce knitwear

MI00BM13 Ethical and Ecological Issues in Textiles and Clothing: 5 ECTS

Learning outcomes

The student is able to

- assess textiles and clothes and their production from the viewpoints of sustainability and the environment
- interpret and apply the ethical and ecological principles to her/his own design work
- explain and present her/his design choices from the perspective of ethical and ecological principles

LATO18-1118 Tila- ja kalustesuunnitteluprojekti: 15 ECTS

MI00BS11 Design drawing by hand: 5 ECTS

Learning outcomes

The student is able to

- produce hand-drawn visual material of her/his ideas and designs
- read and produce industry standard work drawings
- communicate design ideas by sketching.

MI00BS14 Working in CAD: 5 ECTS

Learning outcomes

The student is able to

- perform basic workflows using industry standard CAD software and is able to use basic terminology of CAD work
- independently use CAD software as a design tool
- create work drawings using CAD software.

KE00BE10 Working in a Project 1: 5 ECTS

Learning outcomes

For 1.-2. year students learning outcomes for early study phase are applied, and for 3.-4. year students learning outcomes for the graduation phase.

Early-skill stage/learning outcomes:

The student is able to:

- use the concepts related to the project topic and theme and shows familiar with the paternity-related project data base
- describe the rationale, needs and criteria for project activities
- work in projects in accordance with the administration
- apply professional methods and working practices related to the project topic
- operate safely, ethically and customer-oriented project
- action required by the project in interactive situations
- operate safely, ethically and customer-oriented project

Graduation competence/learning outcomes:

The student is able to:

- use the concepts related to the project in a coherent and justify their actions on the basis of the knowledge base
- find starting points, needs and criteria for project activities
- to act purposefully, to assess the activity and make suggestions for improvement
- applied to the project a variety of different techniques, methods and ways of working
- operate safely, ethically and customer-oriented
- to act responsibly and in a target group and as otherwise required by the project in interactive situations

LATO18-1119 Syventävä tila- ja kalustesuunnitteluprojekti: 15 ECTS

MI00BS12 Presentation drawing: 5 ECTS

Learning outcomes

The student is able to

- create a visual presentation using typical presentation techniques
- produce finalized presentation drawings and work drawings of her/his designs
- discuss possibilities and limitations of hand-drawn and digital presentations.

MI00BS15 CAD, 3D and visualization: 5 ECTS

Learning outcomes

The student is able to

- perform basic 3D-modelling and visualisation workflows using CAD software and is able to use the terminology of 3D-modelling
- apply previously learned CAD skills in more advanced CAD assignments and 3D-modelling
- compare different modelling techniques and formats.

KE00BE11 Working in a Project 2: 5 ECTS

Learning outcomes

For 1.-2. year students learning outcomes for early study phase are applied, and for 3.-4. year students learning outcomes for the graduation phase.

Early-skill stage/learning outcomes:

The student is able to:

- use the concepts related to the project topic and theme and shows familiar with the paternity-related project data base
- describe the rationale, needs and criteria for project activities
- work in projects in accordance with the administration
- apply professional methods and working practices related to the project topic
- operate safely, ethically and customer-oriented project
- action required by the project in interactive situations
- operate safely, ethically and customer-oriented project

Graduation competence/learning outcomes:

The student is able to:

- use the concepts related to the project in a coherent and justify their actions on the basis of the knowledge base
- find starting points, needs and criteria for project activities
- to act purposefully, to assess the activity and make suggestions for improvement
- applied to the project a variety of different techniques, methods and ways of working
- operate safely, ethically and customer-oriented
- to act responsibly and in a target group and as otherwise required by the project in interactive situations

LATO18-1120 Tila- ja kalustesuunnittelustudio: 15 ECTS

MI00BS13 Digital design drawing: 5 ECTS

Learning outcomes

The student is able to

- use industry standard drawing and/or graphics software
- use hand-drawn sketches in a digital workflow
- produce and give digital presentations that combine different source media.

MI00BS16 Advanced CAD: 5 ECTS**Learning outcomes**

The student is able to

- produce professional 3D visualizations and models in CAD software
- create 3D geometry, surfaces and lighting in CAD software
- produce a 3-dimensional scene or 3D-print of her/his design.

KE00BE12 Working in a Project 3: 5 ECTS**Learning outcomes**

For 1.-2. year students learning outcomes for early study phase are applied, and for 3.-4. year students learning outcomes for the graduation phase.

Early-skill stage/learning outcomes:

The student is able to:

- use the concepts related to the project topic and theme and shows familiar with the paternity-related project data base
- describe the rationale, needs and criteria for project activities
- work in projects in accordance with the administration
- apply professional methods and working practices related to the project topic
- operate safely, ethically and customer-oriented project
- action required by the project in interactive situations
- operate safely, ethically and customer-oriented project

Graduation competence/learning outcomes:

The student is able to:

- use the concepts related to the project in a coherent and justify their actions on the basis of the knowledge base
- find starting points, needs and criteria for project activities
- to act purposefully, to assess the activity and make suggestions for improvement
- applied to the project a variety of different techniques, methods and ways of working
- operate safely, ethically and customer-oriented
- to act responsibly and in a target group and as otherwise required by the project in interactive situations

LATO18-1071 Wood and Biomaterial Studio: 15 ECTS**MI00BL92 Wood and Biomaterial Studio 1: 5 ECTS****Learning outcomes**

The student is able to

- carry through a material-based design process
- design wood or fibre material based structures
- apply the physiological properties of the material as a basis of design
- create models of the designs

MI00BL93 Wood and Biomaterial Studio 2: 5 ECTS

Learning outcomes

The student is able to

- apply modelling methods to produce products using wood or biomaterials
- apply design and manufacturing principles of wooden products in design work
- choose appropriate manufacturing methods and techniques in his or hers own design
- create designs that utilize the visual aesthetics of the material

MI00BL94 Wood and Biomaterial Studio 3: 5 ECTS

Learning outcomes

The student is able to

- describe how designers work together with manufacturers
- produce the design documentation needed for such co-operation
- work as a designer in materials-based product development

LATO18-1072 Complementary Competences in Packaging Design: 15 ECTS

MI00BM06 Basics of Packaging Design: 5 ECTS

Learning outcomes

The student is able to

- describe the primary functions of packaging
- describe the structure of the packaging industry and discuss the role of a packaging designer from the point of view of the industry stakeholders
- design the form and graphic appearance of a package
- build a fibre-based model of a package design
- recognize and compare different cardboard material

MI00BQ69 Basics of typography for branding and packaging design: 5 ECTS

Learning outcomes

Students know how to

- differentiate between various typographic categories and describe their areas of use
- design typographical layouts and packaging graphics to support a brand
- use the means of typography in the design of multilingual packaging graphics.

MI00BM07 Packaging Design Model Making and Modelling Materials Workshop: 5 ECTS

Learning outcomes

The student is able to

- operate in the prototyping workshop and safely use its equipment and materials
- describe the basics, working methods and applications of common modelling materials
- discuss and use different techniques in model building
- utilize dimensional drawings in building a model

MI00BM08 Packaging Graphics and the Pre-Press Process: 5 ECTS**Learning outcomes**

The student is able to

- design and produce functional and expressive packaging graphics
- describe the challenges and possibilities of printing of packaging
- select the printing method for her/his graphic design
- request a quote for printing her/his graphic design
- create a print-ready material package from her/his design
- describe the challenges and possibilities of different materials and printing techniques

LATO18-1109 Exhibition design: 15 ECTS**MI00BS05 Exhibition architecture: 5 ECTS****Learning outcomes**

The student is able to

- describe the aims of an exhibition design
- design an exhibition concept, structures and relevant documentation
- design a lighting concept an exhibition.

MI00BS06 Exhibition design and communication: 5 ECTS**Learning outcomes**

The student is able to

- design exhibition graphics
- design communication materials for an exhibition
- consider different audience needs.

MI00BS07 Narrative in exhibition design: 5 ECTS**Learning outcomes**

The student is able to

- understand the role of service design in exhibition environments
- design the exhibition experience for different audiences
- curate a narrative environment.

LATO18-1074 Studio photography and digital image production: 15 ECTS

MI00BL78 Studio photography: 7 ECTS

Learning outcomes

The student is able to

- operate digital photography equipment
- work within the different work stages of studio photography
- realize lighting for a photo shoot according to plans

MI00BL79 Digital photo production: 5 ECTS

Learning outcomes

The student is able to

- operate industry standard software
- use colour management based on icc-profiles

MI00BL81 Digital printing: 3 ECTS

Learning outcomes

The student is able to

- apply different printing techniques and technology in image production
- apply icc-profile-based colour management in printing

LATO18-1106 Valokuvaajan ammatilliset erityisosaamiset: 15 ECTS

MI00BR73 Analysing images: 5 ECTS

Learning outcomes

The student is able to

- verbally describe personal working process in visual creation
- analyze an image both in group discussions and with a text
- write short professional texts such as project plan or press release.

MI00BS03 Architecture photography: 5 ECTS

Learning outcomes

The student is able to

- discuss the history of architecture photography and contemporary photographers
- use different techniques and related specialty equipment
- assess the effects of light and the time of day in an architecture shoot
- produce quality material in a customer-oriented fashion.

MI00BS04 Fashion photography: 5 ECTS

Learning outcomes

The student is able to

- discuss fashion photography and identify various genres

- work in a goal-oriented way, using and cooperating with professionals from different fields
- design a concept for a fashion shoot and shoot a consistent series of fashion photographs.

MI00BS01 Contact photography workshop: 5 ECTS

Learning outcomes

The student is able to

- approach people and guide them as photography subjects
- act appropriately in different environments and cultures
- conduct herself/himself according to legislation and ethical code related to photography of persons.

MI00BS02 Photography exhibition: 5 ECTS

Learning outcomes

The student is able to

- design a concept for an exhibition
- design and execute an exhibition's materials and presentation
- design and carry out marketing for an exhibition.

LATO18-1108 Visual journalism: 15 ECTS

MI00BR95 History and theory of photojournalism: 5 ECTS

Learning outcomes

The student is able to

- discuss the history of and current phenomena in visual journalism
- describe the processes of visual journalism from different perspectives
- discuss the structure and operation of the media, and to explain its relevance in society.

MI00BR96 Journalistic video: 5 ECTS

Learning outcomes

The student is able to

- shoot and record typical forms of journalistic video, such as interviews
- plan and execute a shoot within a tight schedule
- compose a coherent and distribution-ready journalistic video from captured media.

MI00BR97 Journalistic workshop: 5 ECTS

Learning outcomes

The student is able to

- describe the production process of a journalistic publication
- produce and edit material in a journalistic context as a part of a workgroup
- act according to the code of ethics in journalism.

LATO18-1107 Graphic storytelling: 15 ECTS

MI00BR98 Creative writing: 5 ECTS

Learning outcomes

The student is able to

- overcome the fear of expressing themselves through writing
- choose a suitable form and style for what they wish to say.

MI00BR99 Illustrated book: 5 ECTS

Learning outcomes

The student is able to

- give a visual form to their story
- create a comprehensive visual style that carries through the publication.

MI00BS00 Book design: 5 ECTS

Learning outcomes

The student is able to

- give an ideal physical form to their text and illustrations utilizing methods of graphic design, typography, printing and binding
- create a product fit for publication.

LATO18-1073 Curious Creativity: 15 ECTS

MI00BL34 Experimental Publication Design: 5 ECTS

Learning outcomes

The student is able to

- create a print publication with a clearly defined target audience pushing the boundaries of print production
- develop an understanding of how print production is a relevant medium in the post-digital world
- understand that publishing is moving towards smaller and more specific publications

MI00BL35 Off the Wall - Liberating Comics from the Book: 5 ECTS

Learning outcomes

The student is able to

- create and distribute wall comics with personal and political content
- develop comic book art outside the digital realm
- understand the potential of wall comics as a means of disseminating information and raising public knowledge of local issues

MI00BL36 The Urban Environment as a Playground for the Designer: 5 ECTS

Learning outcomes

The student is able to

- create unexpected encounters and foster a sense of newfound awe for our surroundings
- develop works of art that are in dialogue with the urban environment and its inhabitants
- understand who controls the public sphere and revolt against the static structures in a meaningful way

LATO18-1116 UI/IXD for emerging platforms: 15 ECTS**MI00BS20 Interface design for emerging platforms: 5 ECTS****Learning outcomes**

The student is able to

- understand the specifics of designing for touch screens and can evaluate compliance of designs against good practices
- choose, design and implement interactivity adequately and in a context savvy way
- use platform specific user experience design guidelines for user interfaces and where to look for more information.

MI00BS21 Interaction on emerging platforms: 5 ECTS**Learning outcomes**

The student is able to

- grasp the basics of human-computer interaction (HCI)
- recognizes common interaction styles and patterns in graphical user interfaces and platforms
- critique and analyze interaction design: explain design choices orally, literally and visually.

MI00BS22 Mobile app project as an interactive mockup: 5 ECTS**Learning outcomes**

The student is able to

- collaborate and create feasible concepts for small-scale mobile apps
- build a complicated interactive mockup of a mobile service or app
- test the service or app with users and implement changes accordingly.

LATO18-1075 Game Design: 15 ECTS**TE00BH75 Game Design: 4 ECTS****Learning outcomes**

The student is able to

- describe the roles of design, mechanics and narrative as tools when creating experiences to a player
- categorize different types of games
- describe the stages of a game design process
- give examples of how game mechanics can be used in non-game applications

- describe the role of playtesting as a part of a quality process.

MI00BN22 Game Analysis and Theory: 3 ECTS

Learning outcomes

The student is able to

- categorise and analyse a game product's design, structure and mechanics
- describe the basic theories related to game design and know how to apply them to their own work
- describe general monetisation principles in the games industry

MI00BN21 Game Concept Design: 4 ECTS

Learning outcomes

The student is able to

- know how to create a basic game concept or take part in a professional team's efforts in creating a game concept
- know how to verbally describe and present a game concept
- apply games and gamification as building blocks of better user experience in other product categories
- know how to document a game concept design

TE00BH78 Game Development Workshop: 4 ECTS

Learning outcomes

The student is able to

- work as a team member in a project
- search for information independently to solve problems
- act as an active and responsible team member
- support a software team with graphical skills
- test the project using different platforms and tools
- describe the different phases of projects and work for the project goals

LATO18-1076 3D Animation: 15 ECTS

Learning outcomes of the study module

Students

- know how to describe the different types of tools used in creating 3D animation
- know how to describe the basic methods for optimising 3D models and rigging for animating and rendering
- know how to discuss the role of materials and lighting in 3D
- know how to produce a basic model and rig for character animation

Courses included in the study module

3D animation tools 5 ECTS

3D animation project 5 ECTS

Animation and 3D for games 5 ECTS

05MEMED3D 3D animation tools: 5 ECTS

Learning outcomes

The student is able to

- describe the different types of tools used in creating 3D animation
- describe the basic methods for optimising 3D models and rigging for animating and rendering
- discuss the role of materials and lighting in 3D
- produce a basic model and rig for character animation

05MEMED3DPR 3D animation project: 5 ECTS

Learning outcomes

The student is able to

- design and produce a basic, short 3D character animation
- describe a workflow of a simplified 3D animation production process
- work as a junior member in a professional 3D animation team

05MEMED3DGM Animation and 3D for games: 5 ECTS

Learning outcomes

The student is able to

- use the different types of tools to create 3D models and animation for games
- produce a basic model and rig for use in a game engine
- use the basic methods for optimising 3D models and rigging for game engines

LATO18-1111 Design drawing: 15 ECTS

MI00BS11 Design drawing by hand: 5 ECTS

Learning outcomes

The student is able to

- produce hand-drawn visual material of her/his ideas and designs
- read and produce industry standard work drawings
- communicate design ideas by sketching.

MI00BS12 Presentation drawing: 5 ECTS

Learning outcomes

The student is able to

- create a visual presentation using typical presentation techniques
- produce finalized presentation drawings and work drawings of her/his designs
- discuss possibilities and limitations of hand-drawn and digital presentations.

MI00BS13 Digital design drawing: 5 ECTS

Learning outcomes

The student is able to

- use industry standard drawing and/or graphics software
- use hand-drawn sketches in a digital workflow
- produce and give digital presentations that combine different source media.

LATO18-1112 Professional CAD: 15 ECTS

MI00BS14 Working in CAD: 5 ECTS

Learning outcomes

The student is able to

- perform basic workflows using industry standard CAD software and is able to use basic terminology of CAD work
- independently use CAD software as a design tool
- create work drawings using CAD software.

MI00BS15 CAD, 3D and visualization: 5 ECTS

Learning outcomes

The student is able to

- perform basic 3D-modelling and visualisation workflows using CAD software and is able to use the terminology of 3D-modelling
- apply previously learned CAD skills in more advanced CAD assignments and 3D-modelling
- compare different modelling techniques and formats.

MI00BS16 Advanced CAD: 5 ECTS

Learning outcomes

The student is able to

- produce professional 3D visualizations and models in CAD software
- create 3D geometry, surfaces and lighting in CAD software
- produce a 3-dimensional scene or 3D-print of her/his design.

LATO18-1113 Information design and product graphics: 15 ECTS

MI00BS23 Information design: 5 ECTS

Learning outcomes

The student is able to

- describe the basic principles of information design and analytically assess information design products
- choose appropriate ways to present information
- create visual presentations of abstract or complex information.

MI00BS19 Graphic design for products: 5 ECTS

Learning outcomes

The student is able to

analytically assess the functionality and influence of the visual design of products

- design and produce functional and influential graphic design for products, taking the target market into consideration
- use consumer and user testing in product development.

MI00BS18 Information design project: 5 ECTS**Learning outcomes**

The student is able to

- use her/his competence in information design to solve the challenges of an assignment
- design user-centric visual and structural solutions.

LATO18-1114 Information design and wayfinding systems: 15 ECTS**MI00BS23 Information design: 5 ECTS****Learning outcomes**

The student is able to

- describe the basic principles of information design and analytically assess information design products
- choose appropriate ways to present information
- create visual presentations of abstract or complex information.

MI00BS17 Creating and assessing wayfinding systems: 5 ECTS**Learning outcomes**

The student is able to

- understand the principles of designing easily navigable spaces and can apply this know-how in creating designs for spatial and linear wayfinding, orientation and signage elements
- assess existing designs of wayfinding systems
- base her/his own work on UCD-research.

MI00BS18 Information design project: 5 ECTS**Learning outcomes**

The student is able to

- use her/his competence in information design to solve the challenges of an assignment
- design user-centric visual and structural solutions.

LATO18-1115 Software tools for visual creative work: 15 ECTS**MI00BS08 Image editing software Adobe Photoshop: 5 ECTS****Learning outcomes**

The student is able to

- use the basic terminology of image editing in her/his work
- perform basic tasks and use most common tools of the software
- assess and independently develop her/his skills in using the software.

MI00BS09 Layout software Adobe InDesign: 5 ECTS

Learning outcomes

The student is able to

- use the basic terminology of layout work
- perform basic tasks and use most common tools of the software
- assess and independently develop her/his skills in using the software.

MI00BS10 Graphics software Adobe Illustrator: 5 ECTS

Learning outcomes

The student is able to

- use the basic terminology related to vector graphics tools
- perform basic tasks and use most common tools of the software
- assess and independently develop her/his skills in using the software.

LATO18-1064 Individual courses, which are not included in any of the modules: 25 ECTS

MI00BQ98 Designer's Survival Kit – Personal Branding and Negotiation Skills: 5 ECTS

Learning outcomes

The student knows how to...

- describe the building blocks of a personal brand and discuss utilizing it to sell personal competence
- sell her/his personal competence and rationalize their pricing criteria in a negotiation
- systematically develop her/his negotiation skills.

MI00BR74 Studia generalia lecture series: 3 ECTS

Learning outcomes

The student is able to

- analytically discuss the futures of her/his professional field
- plan her/his professional career path and set career goals.

MI00BR75 Academic reading group and excursions: 2 ECTS

Learning outcomes

The student is able to

- discuss or write in a professional manner about the current phenomena in her/his professional field
- relate her/his learning and career goals to ongoing changes and phenomena in the professional

field.

0500BA41 Visual styles and techniques in comics: 5 ECTS

Learning outcomes

The student is able to

- select an appropriate visual style to suite the story/content and her/his own expression
- create comics using different visual styles.

MI00BE71 Competition entry: 5 ECTS

Learning outcomes

The student is able to

- interpret a competition call from the point of view of her/his own expertise
- schedule and document her/his work or the work of a team
- use competition entries in marketing her/his professional expertise.

MI00BM66 Exhibition: 5 ECTS

Learning outcomes

The student is able to

- finalize works and/or material for the exhibition
- plan the exhibition architecture, structures and lighting
- present the exhibition
- plan the marketing for an exhibition or utilize the exhibition project professional self-promotion

LATO18-1077 Modules of Faculty of Social and Health Care available: 133 ECTS

LATO18-1079 Innovation Competence in Social Services and Health Care: 15 ECTS

UU00BJ90 Innovation Competence: 5 ECTS

Learning outcomes

The student is able to

- justify the need for innovation and reform of the social and health sector in the future through research and gained knowledge and to justify the choice and use of data sources
- present innovative or alternative solutions for the development of the professional field
- participate responsibly in group goal-oriented activities and is able to communicate professionally the results of the group activities

U200BJ91 Innovation Competence: 5 ECTS

Learning outcomes

The student is able to:

- justify the need for innovation and reform of the social and health sector in the future through

research and gained knowledge and to justify the choice and use of data sources

- present innovative or alternative solutions for the development of the professional field
- participate responsibly in group goal-oriented activities and is able to communicate professionally the results of the group activities

U300BJ92 Innovation Competence: 5 ECTS

Learning outcomes

The student is able to:

- justify the need for innovation and reform of the social and health sector in the future through research and gained knowledge and to justify the choice and use of data sources
- present innovative or alternative solutions for the development of the professional field
- participate responsibly in group goal-oriented activities and is able to communicate professionally the results of the group activities

LATO18-1080 Practical Training in Innovation Competence in Social and Health care: 15 ECTS

U100BJ93 Acting as a Developer in Own Work 1: 5 ECTS

Learning outcomes

The student is able to

- act using a goal- and innovation-oriented work approach to develop the profession
- work in challenging work situations by applying a wide variety of techniques , working methods, models and processes
- promote customer-oriented and ethical principles inclusive activities in their professional field
- participate in the working group / community's goal-oriented activities and take responsibility for their development

U200BJ94 Acting as a Developer in Own Work 2: 5 ECTS

Learning outcomes

The student is able to

- act using a goal- and innovation-oriented work approach to develop the profession
- work in challenging work situations by applying a wide variety of techniques , working methods, models and processes
- promote customer-oriented and ethical principles inclusive activities in their professional field
- participate in the working group / community's goal-oriented activities and take responsibility for their development

U300BJ95 Acting as a Developer in Own Work 3: 5 ECTS

Learning outcomes

The student is able to

- act using a goal- and innovation-oriented work approach to develop the profession
- work in challenging work situations by applying a wide variety of techniques , working methods, models and processes

- promote customer-oriented and ethical principles inclusive activities in their professional field
- participate in the working group / community's goal-oriented activities and take responsibility for their development

LATO18-1081 Promoting Youth Wellbeing: 15 ECTS

ST00BK27 Constructors of Youth Wellbeing: 5 ECTS

Learning outcomes

The student is able to

- use evidence based-knowledge
- describe youth wellbeing at a national and international level
- knows connections between mental health, physical activity and youth wellbeing
- apply counselling in supporting youth wellbeing

ST00BK28 Promoting youth wellbeing – towards holistic and multiprofessional approach: 10 ECTS

Learning outcomes

The student is able to

- apply holistic approach in promoting youth wellbeing
- enhance client centered practice
- demonstrate interprofessional collaboration in diverse contexts

LATO18-1082 Tutoring: 10 ECTS

ST00BM34 Skill workshop tutoring:: 5 ECTS

Learning outcomes

The student is able to:

- apply evidence-based knowlegde in the skill workshop
- plan, implement and evaluate
- guide the development of nursing skills in a student-oriented matter
- assess one's own guidance skills

ST00BJ98 Simulation Tutoring: 5 ECTS

Learning outcomes

Learning outcomes

The student is able to:

- describe the basic elements of simulation training and the progress of the simulation training situation
- use the simulation center's recording system, patient simulators, and the care equipment used in simulation training
- act responsibly and in a developmental manner as a supervisor and teacher's assistant in the planning, implementation and evaluation of the simulation training situation

- evaluate their own knowledge of simulation training

LATO18-1083 Methodical competence in social inclusion: 15 ECTS

ST00BK15 Methodology of Social Pedagogical Work: 5 ECTS

Learning outcomes

The student is able to

- identify the methodological starting points and frames of social work
- define the importance of dialogical and inclusive working methods in client work, work organization and society
- make use of the current methodology discussion in his professional field
- know the effectiveness of customer work and research

ST00BK16 Narrative picture work: 5 ECTS

Learning outcomes

The student is able to:

- determine the principles of narrative photo work
- apply photo work in client work
- evaluate the importance of photographic work in client work / individual / community and social

ST00BK17 Drama Work: 5 ECTS

Learning outcomes

The student is able to:

- utilize stories in emotional work
- enhance the interaction skills of a client or customer group with functional means
- take advantage of good atmosphere creation and drama inspirational effects in guidance work
- create a safe atmosphere for drama work

LATO18-1084 Health-related exercise - new technological possibilities: 15 ECTS

ST00BK30 Health promoting exercise recommendations and prevention of musculoskeletal disorder: 5 ECTS

Learning outcomes

The student is able to:

- apply and develop their theoretical and clinical knowledge of musculoskeletal diseases and their prevention through health promoting exercise
- evaluate and justify their actions, taking into account national guidelines and recommendations

ST00BK31 Intelligent health promoting exercise and guidance solutions: 5 ECTS

Learning outcomes

The student is able to:

- evaluate the use of various intelligent solutions in health promoting exercise and guidance
- implement and develop digital guidance and rehabilitation of patients with musculoskeletal diseases

ST00BK32 Digitalisation in walking, muscle strength training and motor control training: 5 ECTS

Learning outcomes

The student is able to:

- select and use digital methods for preventing and treating musculoskeletal diseases of patients of different ages
- evaluate the possibilities of using different methods in a customer-oriented manner

LATO18-1085 Love and Care: 15 ECTS

ST00AY65 Sexual Health Promotion: 5 ECTS

Learning outcomes

The student is able to

- use the concepts of sexuality
- describe the ethical, cultural, biological and psychical dimensions of sexuality as a part of one's well being/life circle
- know sexuality of children, young people, adults and senior citizens and characteristics of them
- know sexual rights and safe sex
- counsel a client to use sexual services

ST00BJ27 Workplace Safety and First Aid: 5 ECTS

Learning outcomes

The student is able to:

- describe the factors of general occupational safety
- face different manifestations of violence in their own work
- has first aid 1 and first aid 2 skills (CPR)
- can plan, implement and evaluate first aid activities at a mass event

ST00BL40 Promoting Wellbeing with Mindfulness: 5 ECTS

Learning outcomes

The student is able to

- reduce stress with mindfulness based methods
- recognise defensive pattern in his or her interaction
- foster psychological flexibility
- choose various mindfulness based methods in relation to promoting wellbeing

LATO18-1086 Professional Finnish: 23 ECTS

ST00BM28 Professional Finnish 1: 5 ECTS

Learning outcomes

The student is able to

- explain and describe patient cases
- participate in workplace communication
- use work related phrases and vocabulary
- write common work related texts
- communicate in work place situations

ST00BM29 Professional Finnish 2: 5 ECTS

Learning outcomes

The student is able to

- collect in patient interviews information of the current and previous health status
- inform the patient of care instructions, procedures and ward routines

ST00BM25 Professional Finnish 3: 5 ECTS

Learning outcomes

The student is able to

- develop language skills in the nursing field
- achieves the level of written and oral skills needed in nursing work
- use articles of nursing
- make a presentation of the current topic in the nursing field.

ST00BM30 Finnish: 3 ECTS

Learning outcomes

The student is able to

- communicate at the meetings and negotiations at work
- write work related text.
- give a summary of medical or scientific articles of nursing

ST00BO67 Basics of Professional Finnish: 5 ECTS

LATO18-1087 Simulaatiot / Simulations: 10 ECTS

ST00BJ34 Simulation for graduating nurse students: 1 ECTS

ST00BJ39 : 1 ECTS

ST00BJ38 Simulation, Maternity: 1 ECTS

ST00BJ37 Simulation, Competence in children and adolescent care: 1 ECTS

ST00BJ36 Simulation, Competence in mental health and substance abuse work: 1 ECTS

ST00BJ35 Simulation, Competence in good chronic nursing care: 1 ECTS

ST00BJ32 Good care in acute care: 1 ECTS

ST00BJ30 Competence in children and adolescent care: 1 ECTS

ST00BJ33 Simulation for graduating nurse students: 1 ECTS

ST00BQ16 : 1 ECTS

LATO18-1078 Individual courses, which are not included in any of the modules: 0 ECTS

ST00BM32 Lifestyle guidance: 5 ECTS

Learning outcomes

The student is able to

- describe the principles of a value- and acceptance-based approach to lifestyle change guidance
- plan, implement and evaluate a program to support lifestyle change
- use functional and communal methods for lifestyle change guidance

ST00BM33 Medical Studies: 5 ECTS

Learning outcomes

Th student is able to

- knows the key features of selected medical specialties
- describes and applies information of selected medical specialties

ST00BK18 Advanced Practice Nursing: 5 ECTS

Learning outcomes

The student is able to:

- analyze the responsibility, role and competence of the nurse in an independent high-quality nursing and as a member of a multiprofessional team
- analyze the focus of customer-oriented care and service processes from the point of view of quality of care, reducing service inequalities, safety and cost-effectiveness
- evaluate the urgency of care for multiple disease patients and multi-service clients, their needs and continuity of care, as well as guide patients how to get appropriate services
- apply evidence-based knowledge and preparatory, rehabilitative, consultative as well as empowering work approach to support customer self-care

ST00BL96 : 5 ECTS

Learning outcomes

The student is able to

- gather information from the patient and evaluate patient's general status
- interventions of patient's physical examination (examination of ear, nose and throat, examination of eyes, examination of respiratory system, examination of cardiovascular system, examination of abdomen, neurological status, examination of musculoskeletal system)
- see the difference in normal and abnormal findings in patient's clinical examination

ST00BL97 Patient's Clinical Examination: 5 ECTS

Learning outcomes

The student is able to

- gather information from the patient and evaluate patient's general status
- interventions of patient's physical examination (examination of ear, nose and throat, examination of eyes, examination of respiratory system, examination of cardiovascular system, examination of abdomen, neurological status, examination of musculoskeletal system)
- see the difference in normal and abnormal findings in patient's clinical examination

ST00BQ32 : 2 ECTS

ST00BQ57 Drug and alcohol work-Talking about Substance Abuse and Child in detoxification family: 5 ECTS

ST00BQ85 : 5 ECTS

ST00BR59 : 5 ECTS

ST00BR79 : 3 ECTS

ST00BS31 : 5 ECTS

ST00BS77 Advanced Manual Therapy: 5 ECTS

ST00BS78 Digital flow to the services of social and health: 5 ECTS

Learning outcomes

The student

- can basics of digital services of social and health care
- can use and develop digital services and counsel client in using those
- considers information security and data protection in the use of social and health care services

LATO18-1088 Modules of Faculty of Technology available: 175 ECTS

LATO18-1089 Environmental Projects: 15 ECTS

TE00BH00 Environmental Project 1: 5 ECTS

Learning outcomes

The student is able to

- operate in a work-related project alone or in a small team
- apply different kinds of information search and development methods
- write a report following the thesis guidelines and present the results according to the instructions

TE00BH01 Environmental Project 2: 5 ECTS

Learning outcomes

The student is able to

- operate in a work-related project alone or in a small team
- apply different kinds of information search and development methods
- write a report following the thesis guidelines and present the results according to the instructions

TE00BH02 Environmental Project 3: 5 ECTS

Learning outcomes

The student is able to

- operate in a work-related project alone or in a small team
- apply different kinds of information search and development methods
- write a report following the thesis guidelines and present the results according to the instructions

LATO18-1090 Environmental Technologies: 15 ECTS

TE00BH03 Environmental Technologies 1: 5 ECTS

Learning outcomes

The student is able to

- get a deeper insight into topics that are the most relevant and current in the field (e.g. climate change, circular economy, environmental protection)
- find information in the main sources and databases connected with the chosen topic
- evaluate and plan the time, quality and competence required for the task
- choose and analyse the most relevant aspects of the chosen topic, and present them using the method selected together with the supervisor (e.g. an online course, summary, essay or exam)

TE00BH04 Environmental Technologies 2: 5 ECTS

Learning outcomes

The student is able to

- get a deeper insight into topics that are the most relevant and current in the field (e.g. climate change, circular economy, environmental protection)
- find information in the main sources and databases connected with the chosen topic

- evaluate and plan the time, quality and competence required for the task
- choose and analyse the most relevant aspects of the chosen topic, and present them using the method selected together with the supervisor (e.g. an online course, summary, essay or exam)

TE00BH05 Environmental technologies 3: 5 ECTS

Learning outcomes

The student is able to

- get a deeper insight into topics that are the most relevant and current in the field (e.g. climate change, circular economy, environmental protection)
- find information in the main sources and databases connected with the chosen topic
- evaluate and plan the time, quality and competence required for the task
- choose and analyse the most relevant aspects of the chosen topic, and present them using the method selected together with the supervisor (e.g. an online course, summary, essay or exam)

LATO18-1091 Mechanics and Automation 5: 15 ECTS

TE00BG76 Automation of a Manufacturing Cell: 3 ECTS

Learning outcomes

The student is able to

- simulate the operation of a manufacturing cell
- select automation components for a manufacturing cell
- apply bus technology in the data transfer of automation systems

TE00BG71 Simulation: 4 ECTS

Learning outcomes

The student is able to

- simulate the operation of a machine

TE00BG72 Modelling: 3 ECTS

Learning outcomes

The student is able to

- use different features of modelling software

TE00BG73 Robot Applications: 5 ECTS

Learning outcomes

The student is able to

- design and build robot applications

LATO18-1092 Mechanics and Automation 6: 15 ECTS

TE00BG74 Materials and design: 5 ECTS

Learning outcomes

The student is able to

- design a structure under dynamic load
- use special materials when building devices

TE00BG75 Optimal Modelling: 5 ECTS

Learning outcomes

The student is able to

- model the parts of a technical device in a way that is optimal for manufacture and assembly

TE00BG70 Dynamics of Joint Mechanisms: 5 ECTS

Learning outcomes

The student is able to

- calculate the speeds and accelerations of joint mechanism components
- design structural parts under dynamic load

LATO18-1093 Project 3: 10 ECTS

TE00BG77 Project 3: 10 ECTS

Learning outcomes

The student is able to

- design and build a manufacturing cell
- design a machine according to requirements (CE mark)

LATO18-1094 Applications of Plastics Materials: 15 ECTS

TE00BH23 Environmental Issues of Plastics: 5 ECTS

Learning outcomes

The student is able to

- describe circular economy of plastic materials
- sort out how to reduce waste
- make a waste reduction plan
- make development plans as a member of a project
- make the report and presentation of a project
- know relevant legislation

TE00BH24 Product Designing and Applications for Plastic Materials: 5 ECTS

Learning outcomes

The student is able to

- design technical plastic products
- choose right materials for applications
- take notice of special properties of materials
- select proper manufacturing methods for parts
- know economically and environmentally friendly ways to work

TE00BH25 Materials Engineering Project: 5 ECTS

Learning outcomes

The student is able to

- learn properties of plastic materials
- choose materials for certain applications
- carry out a development or design project
- work in a multicultural, technical and scientific environment

LATO18-1095 Web Development: 15 ECTS

TE00BH58 Server-Side Programming: 4 ECTS

Learning outcomes

The student is able to

- make web-based services with modern server-side programming languages using object-oriented principles
- design a functional database for www-services
- use database efficiently in www-services
- implement a responsive www-service server-side API using Ajax.

TE00BH59 Browser as a Platform: 4 ECTS

Learning outcomes

The student is able to

- design and implement web-user interfaces for different screen sizes
- know the DOM tree structure and HTML DOM events
- modify a DOM tree during runtime
- use the HTML language to implement an interactive responsive web-based service user interface
- know the operational principles of AJAX technology
- use AJAX to implement Single Page web-applications
- know the differences in browsers
- design, implement and test a browser independent web-application
- use browser debugging facilities

TE00BH60 Web Frameworks: 3 ECTS

Learning outcomes

The student is able to

- know modern web-based server side frameworks
- customize a modern web-based Content Management System

- know modern browser libraries
- design and implement an efficient and responsive web-based user interface to the browser by using libraries
- build web-based services using modern frameworks (in a browser and in a server).

TE00BH61 Web Workshop: 4 ECTS

Learning outcomes

The student is able to

- work as a team member in a software project
- search for information independently to solve problems
- act as an active and responsible team member
- implement suitable software technologies during the project
- test the software project using different platforms and tools
- know and master the different phases of software projects
- document the software project.

LATO18-1096 Mobile Games: 15 ECTS

TE00BH62 Programming Mobile Smart Devices: 4 ECTS

Learning outcomes

The student is able to

- build apps for modern mobile smart devices
- design and implement GUI for mobile apps using platform tools
- know the architecture of modern mobile ecosystems
- use modern tools efficiently to implement and test mobile apps
- make an installation package of a mobile application
- know the principles of sensors in smart devices and use the sensor data inside a mobile application.

TE00BH63 Game Engines and Algorithms: 4 ECTS

Learning outcomes

The student is able to

- know the principles of game design
- know the basic architectures used in games
- know the basic data structures and algorithms used in games
- use different game-related API's
- know the events and design patterns used in games
- measure, analyze and optimize game performance
- program communication between multi-user game clients.

TE00BH64 Cloud Computing and Document Databases: 3 ECTS

Learning outcomes

The student is able to

- know the possibilities of cloud computing
- know the architecture of cloud computing
- design and implement document databases in cloud-based projects
- design and implement the front end and back end of a cloud service
- deploy software as a cloud service

TE00BH65 Smart Devices Workshop: 4 ECTS

Learning outcomes

The student is able to

- work as a team member in a project
- search for information independently to solve problems
- act as an active and responsible team member
- implement suitable software technologies during the project
- test the project using different platforms and tools
- know and master the different phases of software projects
- document a software project

LATO18-1097 Virtualization and Cloud Services: 15 ECTS

TE00BH66 Virtualization Technologies: 5 ECTS

Learning outcomes

The student is able to

- know commonly used virtualization platforms
- understand the most significant technical differences between widely used virtualization platforms
- deploy a virtualization platform
- carry out administrative tasks of a virtualization environment
- monitor virtualization and energy efficiency.

TE00BH67 Administering servers and services: 5 ECTS

Learning outcomes

The student is able to

- know common server applications used in enterprises
- know data center design principles and typically used solutions
- compare technical differences between virtualization environments
- deploy a typical application server and perform administrative tasks
- compare the differences between private, public and hybrid application deployments

TE00BH68 Cloud Services Workshop: 5 ECTS

Learning outcomes

The student is able to

- acquire information and knowledge independently and use it to solve problems in a project
- define a problem and is able to find and compare appropriate solutions
- plan and implement a solution which fulfills the requirements of the project

- act independently and as a part of a team to achieve project objectives.

LATO18-1098 Internet of Things (IoT): 15 ECTS

TE00BH69 IoT and Network Technologies: 5 ECTS

Learning outcomes

The student is able to

- know the most common IoT components
- understand the basics of most common sensors and measuring
- have a basic knowledge of WAN technologies and network services
- configure and troubleshoot network devices
- know the basics of selection of suitable technologies

TE00BH70 IoT Security and Network Management: 5 ECTS

Learning outcomes

The student is able to

- have a basic knowledge of information security
- know different user authentication and cryptology technologies
- have a basic knowledge of network management systems
- master deployment of network management systems and their use as a network management tool
- know the importance of data security in IoT communication

TE00BH71 IoT Workshop: 5 ECTS

Learning outcomes

The student is able to

- acquire information and knowledge independently and use it to solve problems
- plan and implement a solution which fulfills the requirements of the IoT project
- act independently and as a part of a team to achieve the objectives of the IoT project

LATO18-1099 Production of Digital Material: 15 ECTS

TE00BH72 Digital Material: 5 ECTS

Learning outcomes

The student is able to

- understand differences between bitmap and vector graphics
- understand basic features of vector graphics
- use and modify vector graphics
- produce graphical illustrations and presentations with Adobe Illustrator.

TE00BH73 WWW Multimedia: 5 ECTS

Learning outcomes

The student is able

- make javascript programming on a basic level
- use javascript libraries in modern web development
- make simple javascript-based games
- use javascript to modify graphics and web elements on a web page.

TE00BH74 Visualization Workshop: 5 ECTS

Learning outcomes

The student is able to

- work as a team member in a project
- search for information independently to solve problems
- act as an active and responsible team member
- support a software team with graphical skills
- test the project using different platforms and tools
- describe the different phases of projects and work for the project goals
- make documentation of the project.

LATO18-1100 Game Development: 15 ECTS

TE00BH75 Game Design: 4 ECTS

Learning outcomes

The student is able to

- describe the roles of design, mechanics and narrative as tools when creating experiences to a player
- categorize different types of games
- describe the stages of a game design process
- give examples of how game mechanics can be used in non-game applications
- describe the role of playtesting as a part of a quality process.

TE00BH76 Game Programming Advanced Course: 4 ECTS

Learning outcomes

The student is able to

- use the advanced techniques of Unity3D
- understand game demands for different platforms
- use advanced features of the C# programming language
- use different kinds of material shaders

TE00BH77 Game Programming Mathematics and Physics: 3 ECTS

Learning outcomes

The student is able to

- describe and use the laws and principles of mathematics and physics in games
- handle objects in a game according to the laws of mathematics and physics using a programming language

- use a physics engine API inside a game program.

TE00BH78 Game Development Workshop: 4 ECTS

Learning outcomes

The student is able to

- work as a team member in a project
- search for information independently to solve problems
- act as an active and responsible team member
- support a software team with graphical skills
- test the project using different platforms and tools
- describe the different phases of projects and work for the project goals

LATO18-1101 Individual courses, which are not included in any of the modules: 0 ECTS

TE00BG96 Basics of The Campus Radio: 3 ECTS

Learning outcomes

The student is able to

- plan and carry out a series of radio programmes
- do a target group analysis
- utilize modern ICT methods in marketing and communicating of the series as a part of a multi-skilled team

As the result of the course students will carry out a radio programme series of three parts aimed at a selected audience. The group will also plan and carry out a marketing campaign of the show, control the streaming technology and stay in contact with the listeners.

TE00BM55 PEETS: 5 ECTS

Learning outcomes

The student is able to

- work in an international team together with students from different fields of expertise
- recognize different of employability and transversal skills
- distinguish fact knowledge related to ISP's renewable energy solution

TE00BN70 Circular Economy course week: 3 ECTS

TE00BQ56 Robotics for a Case Company: 15 ECTS

Learning outcomes

The student is able to

- recognise the products, customers, technology and production engineering of the partner company
- design the layout of a robot cell and produce a system's functional description to serve as the basis for designing

- design the control of a robot cell (robots, PLC, HMI, buses)
- select and install the components of a robot cell (automation and mechanics)
- recognise the basics of system safety
- create the technical documentation (electricity, PLC, operating instructions) for a system

TE00BK45 Technical design Project: 5 ECTS

Learning outcomes

The student is able to:

- make technical drawings in a 3D (SolidWorks) environment and to visualise assembly drawings
- utilise the product development process in their own design work
- knows how to integrate technical aspects to design
- contribute their knowledge and skills to the work of a design team, cooperative learning with Finnish students

TE00BK50 CNC programming and manufacturing basics: 5 ECTS

Learning outcomes

The student is able to:

- use a CNC router in woodworking as efficiently as possible
- know how to utilise CAM in woodworking
- apply flexible automation techniques in the production systems of piece goods manufacture.

TE00BK49 Safe use of woodworking machines: 3 ECTS

Learning outcomes

The student is able to:

- describe regulations in work safety legislation on the safety and health of the work environment
- know how to find and use notices concerning safe use of harmful and dangerous substances
- know how to use the machines in the workshop according to safety regulations
- use a CNC router in a correct and safe way

LA00BQ37 Project: 1 ECTS

TE00BQ96 Textiles and Plastics in Circular Economy: 3 ECTS

Learning outcomes

Student

- know basics about textile fibers and plastic materials: the most common materials, applications, production volumes. material flows and environmental impacts.
- can explain how material efficiency and recycling can reduce the consumption of virgin raw materials and energy.
- be able to compare materials with each other and evaluate their effects on recycling or how to recycle them (sorting, recoverability in the manufacture of new products) or reuse energy.
- be able to keep track of circular economy and recycling related business activities as well as ongoing projects.

TE00BR77 Heat pump applications: 5 ECTS

Learning outcomes

The student is able to

- understand the operating principle of a heat pump and the concept of coefficient of performance
- evaluate and justify the applicability of different heat pump systems and designs for heating a building

TE00BS47 Sawmill Trainee: 15 ECTS

TE00BB49 : 1 ECTS

TE00BS69 : 5 ECTS

TE00BS79 Carbon neutrality and mechanical forest industry: 3 ECTS

TE00BS80 Wood industry as a global business: 3 ECTS

Learning outcomes

The student is able to:

- describe global wood market
- recognize different operators in the supply chain
- describe global opportunities of finish wood industry