



COURSES HELD IN ENGLISH OR WITH SUBJECTS IN ENGLISH

ECONOMICS, BUSINESS, BANK AND FINANCE		
Master Degree Course in International Marketing, Management and Organization		
<i>Completely taught in English</i>		
Subject	ECTS	Semester
Advanced, management & Control	9	2
Innovation Management	6	1
Interantional Economics	6	1
International Commercial, Brand & Patent Law	9	2
International Management	6	2
Laboratory of Business Process reengineering and Project Management	6	1
Laboratory of Business Strategies and Policies	6	1
Laboratory of Statistics and Mathematics	9	1
Leading Change for Organizational Renewal	6	1
Management Teams for Innovation	6	2
Quality Management	6	2
Relationship Marketing and Social Media	6	n.a.
Strategy & Business Models	9	1
Master Degree Course in Banking and Finance		
Subject	ECTS	Semester
Bank Management	9	2
Laboratory for Financial Engineering	6	1
Monetary Policy	6	2
Master Degree Course in Economics		
<i>Completely taught in English</i>		
Subject	ECTS	Semester
Advanced Econometrics	6	2
Advanced Macroeconomics	9	1
Advanced Mathematics	9	1



Advanced Microeconomics	9	2
Development Economics	9	2
Environmental and Resource Economics	6	1
Financial Intermediaries and Financial Markets (1° module)	6	1
Financial Intermediaries and Financial Markets (2° module)	6	2
Industrial Organization	6	2
Labour Market Law	6	2
Multivariate Statistical Analysis	6	1
Political Economy	6	1
Public Economics	9	1
MATHEMATICS, COMPUTER SCIENCE AND MULTIMEDIA		
Master Degree Course in Computer Science		
Subject	ECTS	Semester
Auditory and Tactile Interactions	6	2
Information retrieval	6	2
Interactive 3D Graphics	6	2
Recommender Systems**	6	n.a.
Virtual Reality and Persuasive User Experience	9	2
Auditory and Tactile Interactions	6	2
Information retrieval	6	2
** Every two years (2018/19, 2020/21 etc.)		
International Master Degree Course in Computer Science		
<i>Completely taught in English</i>		
Subject	ECTS	Semester
Advanced Algorithms	6	1
Advanced Databases and GIS*	6	n.a.
Advanced Human-Computer Interaction**	6	n.a.
Advanced Web Technologies*	6	2
Algorithms and Models for Decisions	6	2
Applied statistics and data analysis	6	1
Auditory and Tactile Interactions	6	2



Automated Reasoning	6	1
Automatic system verification: theory and applications	9	n.a.
Cybersecurity	6	2
Complexity and Information Theory	6	1
Computational Geometry**	6	n.a.
Data & Techniques for E-Health**	6	n.a.
Design of Mobile Applications	6	1
Distributed Systems	9	1
Formal Methods	6	2
Information Retrieval	6	2
Interactive 3D Graphics	6	2
Languages and Compilers	9	2
Logics for Informatics	6	1
Multimedia System Design	6	1
Network Science	6	1
Numerical Algorithms and Applications*	6	2*
Object Oriented Analysis and Design	9	2
Operations Research	6	1
Recommender Systems**	6	n.a.
Robotics**	6	1
Semantic Web	6	1
Semantics and Concurrency	9	1
Static Program Analysis and Verification by Abstract Interpretation	6	1
Virtual Reality and Persuasive User Experience	9	2
* Every two years (2017/18, 2019/20 etc.)		
** Every two years (2018/19, 2020/21 etc.)		
Master Degree Course in Multimedia Communication and Information Technologies <i>Curriculum in Multimedia systems and Interaction Design</i>		
Subject	ECTS	Semester
Auditory and tactile interactions	6	2



Cybersecurity	6	2
Digital Communication Design	6	1
Interaction Design	9	2
Interactive 3D graphics	6	2
Laboratory of Advanced Multimedia Coding	9	1
Machine Learning	9	2
Machine Vision	6	1
Multimedia Design	9	2
Social Digital Innovation	6	2
Virtual Reality and Persuasive User Experience	9	2
Web information retrieval	6	2
Master Degree Course in Multimedia Communication and Information Technologies <i>Curriculum in Publishing, Music and Digital Communication</i>		
Subject	ECTS	Semester
Auditory and tactile interactions	6	2
Cybersecurity	6	2
Data & Techniques for E-Health**	6	n.a.
Graph and Game Theory	6	1
Interactive 3D graphics	6	2
Laboratory of Advanced Multimedia Coding	9	1
Machine Learning	9	2
Music management	6	2
Smart Networked Devices**	6	n.a.
Structure of Complex Networks	6	2
Virtual Reality and Persuasive User Experience	9	2
Web information retrieval	6	2
ENGINEERING AND ARCHITECTURE		
Master Degree Course in Civil Engineering		
Subject	ECTS	Semester
Advances in Building Constructions	6	1



Advances in Computational Mechanics	6	2
Bridge Constructions	6	2
Plasticity and Stability of Structures	6	2
Steel Constructions	6	2
Steel Making for Construction Engineering	6	2
Territorial Engineering	6	2
Master Degree Course in Electrical Engineering		
Subject	ECTS	Semester
Advanced Digital Control Systems for Electrical Energy Conversion	6	1
Advanced Scheduling Systems	6	1
Data Analytics (integrated with Software Analysis and Design)	6	1
Digital Systems Electronics	6	1
Electrical and Electronic Measurements (integrated with Electronic Instrumentation and Sensors)	6	1
Electronic Circuits for High Frequencies		
Electronic Circuits for High Frequencies (integrated with Electronic Systems for High Frequencies)	6	1
Electronic Instrumentation and Sensors (integrated with Electrical and Electronic Measurements)	6	1
Electronic Devices and Components	6	1
Nanoelectronics Devices and Circuits with High Energy Efficiency for IoT Applications (integrated with Electronic Devices and Components)	6	1
Master Degree Course in Management Engineering <i>Double Degree Course with FH Joanneum- University of Applied Sciences di Graz and Alpen Adria Universitaet Klagenfurt (Austria)</i>		
Subject	ECTS	Semester
Advanced Manufacturing Technologies	6	2
Advanced Scheduling Systems	6	1
Applied Statistics	6	1
Business Strategy (integrated with Finance and Control)	6	1
Data Analytics	6	1



Energy Management	6	2
Finance and Control (integrated with Business Strategy)	6	1
Innovation & Project Management (integrated with Industrial Economics)	6	1
Marketing and Product Development (integrated with Industrial Systems)	6	1
Service Management	6	1
Master Degree Course in Mechanical Engineering		
Energy Analysis	6	2
Innovative Manufacturing Systems	6	2
Turbolent Flow Modelling	6	2
Master Degree in Environmental Engineering		
Environmental Geophysics	6	1
Master Degree in Environment and Energy Engineering		
Subject	ECTS	Semester
Design of Industrial Plants (integrated with Pollutant Dynamics and Modelling)	6	1
Environmental Transport Phenomena	6	2
Fundamentals of Chemical Reaction Engineering (integrated with Chemical Processes for Energy and Environment)	6	1
Recycling of Materials (integrated with Air Polluting Treatment Processes)	6	1
AGRICULTURE		
Master Degree Course in Viticulture, Oenology and Markets		
Curriculum in Research and Development in Oenology		
Subject	ECTS	Semester
Advanced biomolecular and chemical techniques applied to enological products - Biomolecular Techniques for the Identification of microorganism Module - Advanced Analytical Techniques in Wine Analysis	10 (5+5)	n.a.
Separation, stabilization and packaging techniques in enology - Physical Processes for juice and Wine conditioning and packaging technologies Module - Stabilization Techniques in Enology	10 (4+6)	n.a.



Master Degree Course in Viticulture, Oenology and Markets Curriculum in Research and Development in Viticulture		
Subject	ECTS	Semester
Grapevine Physiology 2 - Applied Physiology: case studies Module - Environmental factors and secondary metabolism - Molecular Physiopathology Module	10 (3+4+3)	n.a.
Agronomical Techniques and Territory - Fertilizers and Grapevine Nutrition Module - Soil Management and Irrigation Module - Vineyard mechanization and Quality	10 (3+3+4)	n.a.
Master Degree Course in Food Science and Technologies Curriculum in Food Science and Technologies		
Subject	ECTS	Semester
Advanced spectroscopic techniques	4	2
Algal Toxins	2	2
Bioinorganic chemistry	2	1
Food Material Science: - Mechanical Properties of Food Products Module - Food Structure and Physical Properties Module	10 (5+5)	2 1
Research and Development for Food Production	3	1
Master Degree Course in Food Science and Technologies Curriculum in Food Quality Control and Management		
Subject	ECTS	Semester
Advanced Spectroscopic Techniques	4	2
Bioinorganic chemistry	2	1
Algal Toxins	2	2
Research and Development for Food Production	3	1
ARTS AND CULTURAL HERITAGE		
Master Degree Course in Events and Cultural Tourism Management		
Subject	ECTS	Semester
Advanced Tourism Management	6	2
Geotechnology for Tourism	9	2
English for professional tourism	9	1
Digital Media for Tourism	6	2
Planning and Management of Company Performance in Tourism Sector	12	2
Master Degree Course in Audiovisual and Cinema Studies		
Media Archeology	6	1