

Combined Course Book — Studies in English

BE = Business Economics **THE** = Tourism, Hospitality and Food Economics **IT** = Information Technology
SDE = Software and Data Engineering **AAI** = Applied Artificial Intelligence

Year I

Winter semester

Course title	ECTS	Program
The Fundamentals of Computing	8	BE
Economics	8	BE, THE, IT
Social Psychology	8	BE, THE, IT
Business Informatics	8	THE
IT Fundamentals	8	IT
Management	8	SDE
Principles of Computer Programming	8	SDE
Computer Organization and Architecture	8	SDE
Mathematics	8	SDE
Computer Systems and Applications	6	AAI
Programming Fundamentals	8	AAI
Databases	8	AAI

Summer semester

Course title	ECTS	Program
Quantitative Methods	8	BE, THE
Accounting	8	BE, THE
Law	8	BE
Economics of Tourism	8	THE
Mathematics	8	IT
Computer Programming Basics	8	IT
Statistics	8	IT
Object Oriented Programming	8	SDE, AAI
Introduction to Electronics and Computers	8	SDE
Signals and Systems	8	SDE
Discrete Mathematics	8	SDE
Databases	8	AAI
Linear Algebra and Calculus	8	AAI
Introduction to Data Science and Artificial Intelligence	8	AAI

Languages (two-semester courses)

Course title	ECTS	Program
English Language 1	6	BE, THE, IT
Second Foreign Language 1 (Spanish/German)	6	THE
English for Software Engineers 1	6	SDE

Year II

Winter semester

Course title	ECTS	Program
Managerial Accounting	8	BE
Marketing	8	BE, IT
Databases	6	BE, IT, SDE
Tourism and Physical Environment	8	THE
Marketing in Tourism and Hospitality	8	THE
Tourism Destination Management	8	THE

Computer Systems	8	IT
Computer Networks	8	SDE
Probability and Statistics	6	SDE
Object Oriented Programming	8	SDE
Operating Systems	8	SDE
Operating Systems and Computer Networks	8	AAI
Applied Probability and Statistics	6	AAI
Artificial Intelligence: Representation and Problem Solving	8	AAI
Data Mining Algorithms	8	AAI

Summer semester

Course title	ECTS	Program
Business Finance	8	BE
International Economics	8	BE
Organizational Behavior and Corporate Culture	8	BE, THE
Management	8	THE
Tourism and Law	8	THE
Management Information Systems	8	IT
Computer Networks	8	IT
Financial Management and Accounting	8	IT
Web Programming	8	SDE
Object Oriented Programming 2	8	SDE
Database Systems	8	SDE
Operating Systems and System Programming	8	SDE

Languages (two-semester courses)

Course title	ECTS	Program
English Language 2	6	BE, THE, IT
Second Foreign Language 2	6	THE
English for Software Engineers 2	6	SDE

Year III

Winter semester

Course title	ECTS	Program
International Management	8	BE
Project Management	6	BE, IT
Marketing Research	8	BE
Public Finance	8	BE
Investments	8	BE
Monetary Economics	8	BE
Financial Business in Tourism	8	THE
Hotel Management	8	THE
Business Communication in Tourism and Hospitality	8	THE
Distributed Computer Services	8	IT
Internet Marketing	8	IT
Artificial Intelligence	8	SDE
Applied Probability and Statistics	6	SDE
Software Testing and Quality Assurance	8	SDE
Cloud Computing	8	SDE
Natural Language Processing	6	AAI
Digital Marketing and Recommendation Systems	8	AAI
Deep Learning Applications for Computer Vision	8	AAI
Image Processing and Pattern Recognition	8	AAI

Summer semester

Course title	ECTS	Program
Portfolio Management	8	BE
Advertising	8	BE
Marketing Channels	8	BE
Electronic Business	8	BE
Corporate Finance	8	BE
Management of Travel Agencies and Tour Operators	8	THE
Cultural Aspects of Tourism	8	THE
Information Systems in Tourism	6	THE
Web Platforms	8	IT
Object Oriented Programming	8	IT
Internet Technology and Web Services	8	SDE
Computer Graphics	8	SDE
Mobile Application Development	8	SDE
Introduction to Machine Learning	8	SDE

Languages (two-semester courses)

Course title	ECTS	Program
English Language 3	6	BE, THE, IT
Second Foreign Language 1 (Spanish/German)	8	BE, IT
Second Foreign Language 3 (German/Spanish)	4	THE
English for Software Engineers 3	6	SDE

Year IV

Winter semester

Course title	ECTS	Program
Financial Statement Analysis	8	BE, THE
Digital Marketing	8	BE
Consumer Behaviour	8	BE, THE
Employee Development	8	BE
Employee Relations	8	BE
Valuation	8	BE
Risk Management	8	BE
Health Aspects of Tourism	8	THE
Artificial Intelligence	8	IT
Information Systems Security	8	IT
Computer Networks Security	8	IT
Internet of Things	8	SDE
Computer Vision	8	SDE
Social Computing	8	SDE

Summer semester

Course title	ECTS	Program
Evaluation and Risk (FIB)	8	BE
Internal Audit (RIR)	8	BE
Electronic Business (MM)	8	BE
Financial Statement Analysis	8	BE
Sales Management (MM)	8	BE
Thematic Tourism	6	THE
Sustainable Tourism	8	THE
Web Applications Development	8	IT
Electronic Business	8	IT
Business Analytics and Reporting	8	IT
Sales Management	8	IT
Security Aspects in Software Engineering	8	SDE

Social Computing	8	SDE
Game Computing	8	SDE
Mining of Massive Datasets	8	SDE

Languages (two-semester courses)

Course title	ECTS	Program
English Language 4	6	BE, THE, IT
English for Software Engineers 4	6	SDE