

DEIM

**DEPARTMENT OF ECONOMICS, ENGINEERING
SOCIETY AND ENTERPRISE**

Degree courses tables

ACADEMIC YEAR 2018 / 2019

THREE-YEAR BACHELOR'S DEGREE COURSE (L-18) BUSINESS ADMINISTRATION

MANAGEMENT (Viterbo Campus)

Exam	Professor	SSD	CFUs
FIRST YEAR			
Political economy 1	Luca Correani	SECS-P/01	8
Business Administration	Alessandro Mechelli/Riccardo Cimini	SECS-P/07	8
General mathematics	Alvaro Marucci	SECS-S/06	8
Private law	Stefano D'Andrea	IUS/01	8
Accounting	Egidio Giuseppe Perrone	SECS-P/07	8
Public law	Alessandro Sterpa	IUS/09	8
SECOND YEAR			
Quantitative determinations	Giuseppe Ianniello	SECS-P/07	8
Economy and company management	Barbara Aquilani	SECS-P/08	8
Political economy 2	Giuseppe Garofalo	SECS-P/01	8
Statistics	Tiziana Laureti	SECS-S/03	8
Financial mathematics	Still to be assigned	SECS-S/06	8
Commercial law	Michele Salvatore Desario	IUS/04	8
Other training activities			
English language	Anna Romagnuolo		8
IT and data processing	Still to be assigned		6
Free exam			8
Free exam			8
THIRD YEAR			
Programming and control	Luigi Fici	SECS-P/07	8
Statistical methods for financial analysis	Luca Secondi	SECS-S/03	8
Bank legislation	Michele Salvatore Desario	IUS/04	8
One exam chosen among the following:			
Economic policy	Chiara Oldani	SECS-P/02	8
European integration economy and policies	Alessandro Sorrentino	AGR/01	
Two exams chosen among the following:			
Raw materials and energy resources	Rita Jirillo	SECS-P/13	16
Social statistics	Stefano Gorelli	SECS-S/05	
Business organisation	Alessio Maria Braccini	SECS-P/10	
Technology, innovation and quality	Alessandro Ruggieri/Cecilia Silvestri	SECS-P/13	
Other training activities			
Practical activities (workshops, project work, work experience)			2

BANK AND FINANCE (Viterbo campus)

Exam	Professor	SSD	CFUs
FIRST YEAR			
Political economy 1	Luca Correani	SECS-P/01	8
Business Administration	Alessandro Mechelli/Riccardo Cimini	SECS-P/07	8
General mathematics	Alvaro Marucci	SECS-S/06	8
Private law	Stefano D'Andrea	IUS/01	8
Accounting	Egidio Perrone	SECS-P/07	8
Public law	Alessandro Sterpa	IUS/09	8
SECOND YEAR			
Statistics	Tiziana Laureti	SECS-S/03	8
Finance 1	Paola Nascenzi	SECS-P/09	8
Financial mathematics	Still to be assigned	SECS-S/06	8
Political economy 2	Giuseppe Garofalo	SECS-P/01	8
Commercial law	Michele Salvatore Desario	IUS/04	8
Economy of financial intermediaries	Giuseppe Galloppo	SECS-P/11	8
Other training activities			
English language	Anna Romagnuolo		8
IT and data processing	Still to be assigned		6
Free exam			8
Free exam			8
THIRD YEAR			
Economic policy	Chiara Oldani	SECS-P/02	8
Mathematical methods for economy and finance	Still to be assigned	SECS-S/06	8
Economy of the financial markets	Giuseppe Galloppo	SECS-P/11	8
Economy of the securities markets	Anna Maria D'arcangelis	SECS-P/11	8
Bank legislation	Michele Salvatore Desario	IUS/04	8
One exam chosen among the following:			
Statistical methods for financial analysis	Luca Secondi	SECS-S/03	8
Statistics for business decisions	Stefano Gorelli	SECS-S/03	8
Other training activities			
Practical activities (workshops, project work, work experience)			2
Final test			4

BUSINESS ECONOMICS AND LEGISLATION (Viterbo campus)

Exam	Professor	SSD	CFUs
FIRST YEAR			
Political economy 2	Luca Correani	SECS-P/01	8
Business Administration	Alessandro Mechelli/Riccardo Cimini	SECS-P/07	8
General mathematics	Alvaro Marucci	SECS-S/06	8
Private law	Stefano D'Andrea	IUS/01	8
Accounting	Egidio Perrone	SECS-P/07	8

Public law	Alessandro Sterpa	IUS/09	8
SECOND YEAR			
Quantitative determinations	Giuseppe Ianniello	SECS-P/07	8
Economy and company management	Barbara Aquilani	SECS-P/08	8
Political economy 2	Giuseppe Garofalo	SECS-P/01	8
Statistics	Tiziana Laureti	SECS-S/03	8
Financial mathematics	Still to be assigned	SECS-S/06	8
Commercial law	Michele Salvatore Desario	IUS/04	8
Other training activities			
English language	Anna Romagnuolo		8
IT and data processing	Still to be assigned		6
Free exam			8
Free exam			8
THIRD YEAR			
Tax law	Still to be assigned	IUS/12	8
Financial sciences	Still to be assigned	SECS-P/03	8
International law	Still to be assigned	IUS/13	8
Contract law	Stefano D'Andrea	IUS/01	8
Two exams chosen among the following:			
Analysis and cost accounting	Maurizio Masi	SECS-P/07	16
Corporate auditing	Fabrizio Rossi	SECS-P/07	
Economy of companies and of public administrations	Alessandra Stefanoni	SECS-P/07	
Production analysis and management	Enrico Maria Mosconi	SECS-P/13	
Business organisation	Alessio Maria Braccini	SECS-P/10	
Other training activities			
Practical activities (workshops, project work, work experience)			2
Final test			4

MANAGEMENT (Civitavecchia campus)

Exam	Professor	SSD	CFUs
FIRST YEAR			
Political economy 1	Still to be assigned	SECS-P/01	8
Business Administration	Riccardo Cimini	SECS-P/07	8
General mathematics	Still to be assigned	SECS-S/06	8
Private law	Still to be assigned	IUS/01	8
Public law	Nicola Viceconte	IUS/09	8
Quality and environment management systems	Still to be assigned	SECS-P/13	8
SECOND YEAR			
Accounting	Riccardo Cimini	SECS-P/07	8
Political economy 2	Still to be assigned	SECS-P/01	8
Economy and company management	Michela Piccarozzi	SECS-P/08	8
Statistics	Still to be assigned	SECS-S/03	8
Financial mathematics	Still to be assigned	SECS-S/06	8
Commercial law	Still to be assigned	IUS/04	8

Other training activities			
English language	Still to be assigned		8
IT and data processing	Still to be assigned		6
Free exam			8
Free exam			8
THIRD YEAR			
Economic policy	Luca Cacchiarelli/Barbara Pancino	SECS-P/02	8
Quantitative determinations	Alessandro Mechelli/Riccardo Cimini	SECS-P/07	8
Financial analysis	Alessandro Frasca	SECS-P/07	8
Statistical methods for financial analysis	Still to be assigned	SECS-S/03	8
Bank legislation	Still to be assigned	IUS/04	8
Business organisation	Still to be assigned	SECS-P/10	8
Other training activities			
Practical activities (workshops, project work, work experience)			2
Final test			4

MARITIME AND INTERNATIONAL TRADE ECONOMY (Clvitavecchia campus)

Exam	Professor	SSD	CFUs
FIRST YEAR			
Political economy 1	Still to be assigned	SECS-P/01	8
Business Administration	Riccardo Cimini	SECS-P/07	8
General mathematics	Still to be assigned	SECS-S/06	8
Private law	Still to be assigned	IUS/01	8
Public law	Nicola Viceconte	IUS/09	8
Quality and environment management systems	Still to be assigned	SECS-P/13	8
SECOND YEAR			
Accounting	Riccardo Cimini	SECS-P/07	8
Political economy 2	Still to be assigned	SECS-P/01	8
Economy and company management	Michela Piccarozzi	SECS-P/08	8
Statistics	Still to be assigned	SECS-S/03	8
Financial mathematics	Still to be assigned	SECS-S/06	8
Commercial law	Still to be assigned	IUS/04	8
Other training activities			
English language	Still to be assigned		8
IT and data processing	Still to be assigned		6
Free exam			8
Free exam			8
THIRD YEAR			
Economy of maritime companies	Still to be assigned	SECS-P/07	8
International economy	Still to be assigned	SECS-P/01	8
Statistical methods for financial analysis	Still to be assigned	SECS-S/03	8

Port and customs law	Still to be assigned	IUS/04	8
Two exams chosen among the following:			
Natural resources and environmental economy	Giacomo Branca	AGR/01	16
Merceology and product safety	Still to be assigned	SECS-P/13	
History and culture of international trade	Still to be assigned	M-STO/04	
Other training activities			
Practical activities (workshops, project work, work experience)			2
Final test			4

THREE YEAR DEGREE COURSE (L-09) INDUSTRIAL ENGINEERING

INDUSTRIAL ENGINEERING

Exam	Professor	SSD	Year	Sem.	Hours	CFUs
Mathematical analysis 1	Carlo Cattani	MAT/07	1	1	72	9
Chemistry fundamentals	Stefano Borocci	CHIM/07	1	1	72	9
Computer Science	S. Minucci/Still to be assigned	INF/01	1	1	72	9
English language	Sonia Melchiorre	L-LIN/12	1	1	24	3
Mathematical analysis 2	Carlo Cattani	MAT/07	1	2	72	9
Physics 1	Ilaria Armentano	FIS/01	1	2	72	9
Materials science and technology	Ulderico Santamaria	ING-IND/22	1	2	48	6
Physics 2	Simone Minucci	FIS/01	2	1	72	9
Solid mechanics	Pierluigi Fanelli	ICAR/08	2	1	48	6
Technical physics	M. Scungio / M. Barbanera	ING-IND/10	2	1	72	9
Machines fluid dynamics	Andrea Facci / Still to be assigned	ICAR/01 ING-IND/08	2	A	96	12
Machines and energy systems	S. Ubertini / A. Facci	ING-IND/08	2	2	96	12
Electrotechnics	Giuseppe Calabrò	ING-IND/31	2	2	72	9
Mechanical and thermal measurements	Stefano Rossi	ING-IND/12	3	1	72	9
Machine construction fundamentals	Pierluigi Fanelli	ING-IND/14	3	1	72	9
Mechanical technologies	Gianluca Rubino	ING-IND/16	3	1	72	9
Machines project	Mauro Villarini / Marco Marconi	ING-IND/09 ING-IND/15	3	2	72	9
Mechanical plants	Ilaria Baffo	ING-IND/17	3	2	48	6
Micro and macro economy	With transfer credits	SECS-P/01	1	2	48	6
Business Administration	With transfer credits	SECS-P/07	3	1	48	6
Marketing	With transfer credits	SECS-P/08	3	1	48	6
Production and quality management	Enrico M. Mosconi	SECS-P/13	3	2	48	6
Industrial IT	Giuseppe Calabrò	ING-INF/05	1	2	48	6
Automatic checks	Not available	ING-INF/04	A		96	12
Engineering of the agro-food and biotechnology industry	Marcello Fidaleo	AGR/15	3	1	48	6
Safety in the workplace	Andrea Colantoni	AGR/09	1	2	48	6
Renewable energies: processes and technologies	Maurizio Carlini	AGR/09	3	2	48	6

Science of the materials workshop	Claudia Pelosi	ING-IND/22	1	2	24	3
Biofuels workshop	Still to be assigned	ING-IND/09	3	2	24	3
Workshops or training activities			3	2	150	6
Final test			3	2	24	3

THREE YEAR DEGREE COURSE (L-36)

POLITICAL SCIENCE AND INTERNATIONAL RELATIONS

POLITICAL SCIENCE

Exam	Professor	SSD	CFUs
FIRST YEAR			
Foreign language - English	Anna Romagnuolo	L-LIN/12	8
Contemporary history	Still to be defined	M-STO/04	8
Public law	Alessandro Sterpa	IUS/09	8
General sociology	Still to be defined	SPS/07	8
Political economy	Giulio Guarini	SECS-P/01	8
Political science	Still to be defined	SPS/04	10
SECOND YEAR			
History of international relations	Sante Cruciani	SPS/06	10
International law	Still to be defined	IUS/13	8
Political economy and economic institutions	Barbara Pancino/Alessandro Sorrentino	SECS-P/06	10
Economy of companies and of public administrations	Alessandra Stefanoni	SECS-P/07	8
History of Italy and of the European integration process	Maurizio Ridolfi	M-STO/04	8
European integration economy and policies	Alessandro Sorrentino	AGR/01	6
Chosen between:			
Language and translation - French language	Still to be defined	L-LIN/04	8
Language and translation - Spanish language	Still to be defined	L-LIN/07	8
Further language knowledge (advanced English) id.	Still to be defined	L-LIN/12	4
THIRD YEAR			
Administrative law	Mario Savino	IUS/10	8
Sociology of political phenomena	Flaminia Saccà	SPS/11	8
Language planning and politics	Luca Lorenzetti / Still to be defined	L-LIN/01	8
European Union law	Still to be defined	IUS/14	8
Two exams chosen among the following:			
Information systems management	Still to be defined	M-STO/08	8
Organisation of work and of trade union relationships	Still to be defined	SECS-P/10	
Other training activities			
Exam chosen by the student			18
For the knowledge of a minimum of one foreign language id.			2
Internships and training id.			2
Final test			6

INVESTIGATIONS AND SECURITY

Exam	Professor	SSD	CFUs
FIRST YEAR			
Foreign language - English	Anna Romagnuolo	L-LIN/12	8
Contemporary history	Still to be defined	M-STO/04	8
Public law	Alessandro Sterpa	IUS/09	8
Political economy	Giulio Guarini	SECS-P/01	8
Private law	Andrea Genovese	IUS/01	8
Chosen between:			
History of international relations	Sante Cruciani	SPS/06	10
History of Eastern Europe	Alessandro Boccolini	M-STO/02	10
IT competence	Still to be defined	INF/01	4
SECOND YEAR			
Political science	Still to be defined	SPS/04	8
General sociology	Still to be defined	SPS/07	8
Criminal procedural law	Still to be defined	IUS/17	8
Commercial law	Salvatore Desario	IUS/04	8
Economy of companies and of public administrations	Alessandra Stefanoni	SECS-P/07	7
Quality certification	A. Ruggieri / C. Silvestri	SECS-P/13	8
Techniques and activities of court authorities	Still to be defined	IUS/16	4
Forensic ballistics	Still to be defined	IUS/16	4
Chosen between:			
Language and translation - French language	Still to be defined	L-LIN/04	8
Language and translation - Spanish language	Still to be defined	L-LIN/07	8
THIRD YEAR			
Financial science and financial safety	Still to be defined	SECS-P/03	10
Sociology of social security and deviance	Still to be defined	SPS/11	8
Strategic studies for safety	Still to be defined	SPS/04	10
Investigative, private and defence law and privacy law	Still to be defined	IUS/01	8
Marketing	Sivio Franco	SECS-P/08	7
Legal medicine	Still to be defined	MED/43	4
Forensic genetics	Still to be defined	BIO/13	3
Criminology	Still to be defined	IUS/17	3
Other training activities			
For the knowledge of a minimum of one foreign language id.			2
Internships and training id.			2
Final test			6

SECOND-LEVEL DEGREE COURSE (LM-77) ADMINISTRATION, FINANCE AND CONTROL

ADMINISTRATION AND CONTROL

Exam	Professor	SSD	CFUs
FIRST YEAR			
Company evaluation	Alessandro Mechelli	SECS-P/07	8
International accounting	Egidio Giuseppe Perrone	SECS-P/07	8
Internal auditing	Fabrizio Rossi	SECS-P/07	8
Financial economy	Giuseppe Garofalo	SECS-P/01	8
Sample surveys	Stefano Gorelli	SECS-S/03	8
Bankruptcy law	Still to be assigned	IUS/04	8
Chosen between:			
Corporate responsibility and organisational models	Still to be assigned	IUS/01	8
Commercial criminal law	Still to be assigned	IUS/17	8
Other training activities			
Free exam			8
Vocational activities (Workshops, project work, work experience)			8
Linguistic competence 3 (E-learning)			4
SECOND YEAR			
State-run administration planning and management	Still to be assigned	SECS-P/07	8
Financial analysis and business plan	Maurizio Masi	SECS-P/07	8
Accounting information analysis	Giuseppe Ianniello	SECS-P/07	8
Chosen between:			
International monetary economy	Chiara Oldani	SECS-P/01	8
Taxation economy	Still to be assigned	SECS-P/03	8
Other training activities			
Final test			12

FINANCE

Exam	Professor	SSD	CFUs
FIRST YEAR			
Company evaluation	Alessandro Mechelli	SECS-P/07	8
International accounting (to be chosen with Reporting and financial intermediaries control - 2nd year)	Egidio Giuseppe Perrone	SECS-P/07	8
Risk management	Still to be assigned	SECS-P/11	8
Asset allocation (to be chosen with	D'Arcangelis/Galloppo	SECS-P/07	8

Budget analysis and business plan - 2nd year)			
Financial economy	Giuseppe Garofalo	SECS-P/01	8
Mathematical models for economy and finance	Carlo Cattani	SECS-S/06	8
Statistics for finance	Still to be assigned	SECS-S/03	8
Other training activities			
Free exam			8
Vocational activities (Internships, project work, job, IT competence for finance 4 CFU)			8
Linguistic competence 3 (E-learning)			4
SECOND YEAR			
Reporting and financial intermediaries check (to be chosen with International accounting - year 1)	Still to be assigned	SECS-P/07	8
Investment banking	Anna Maria D'Arcangelis	SECS-P/11	8
Budget analysis and business plan (to be chosen with Asset allocation - year 1)	Maurizio Masi	SECS-P/07	8
International monetary economy	Chiara Oldani	SECS-P/01	8
Financial intermediaries law	Still to be assigned	IUS/04	8
Chosen between:			
Accounting information analysis	Giuseppe Ianniello	SECS-P/07	8
Finance 2	Paola Nascenzi	SECS-P/09	8
Other training activities			
Final test			12

DATA ANALYTICS AND ECONOMIC ANALYSIS

Exam	Professor	SSD	CFUs
FIRST YEAR			
Company evaluation	Alessandro Mechelli	SECS-P/07	8
Internal auditing	Fabrizio Rossi	SECS-P/07	8
Financial economy	Giuseppe Garofalo	SECS-P/01	8
Mathematical models for economy and finance	Carlo Cattani	SECS-S/06	8
Sample surveys	Stefano Gorelli	SECS-S/03	8
Econometrics	Tiziana Laureti	SECS-S/03	8
Economy of globalisation and development	Giulio Guarini	SECS-P/01	8
Advanced commercial law (to be chosen with Financial intermediaries law - year 2)	Ermanno La Marca	IUS/04	8
Other training activities			

Free exam			8
Vocational activities (Workshops, project work, work experience)			8
Linguistic competence 3 (E-learning)			4
SECOND YEAR			
Organisation of business IT systems	Alessio Maria Braccini	SECS-P/10	8
Industrial economy	Luca Correani	SECS-P/01	8
International monetary economy	Chiara Oldani	SECS-P/01	8
Financial intermediaries law (To be chosen with advanced	Still to be assigned	IUS/04	8
Other training activities			
Final test			12

SECOND-LEVEL DEGREE COURSE (LM-77) MARKETING AND QUALITY

MARKETING AND QUALITY

Exam	SSD	Hours	CFUs
Financial analysis and business plan	SECS-P/07	48	8
Internal auditing	SECS-P/07	48	8
Behavioural economy and theory of consumption	SECS-P/02	48	8
Management and quality certification	SECS-P/13	48	8
Marketing	SECS-P/08	48	8
Statistics for market analysis	SECS-S/03	48	8
Agro-food markets (to be chosen with Organisation of business IT systems and Sociology of consumption and advertising - year 2)	AGR/01	48	8
One exam chosen among the following:			
Marketing and big data analytics	SECS-P/08	48	8
Quality management techniques	SECS-P/13	48	8
Web and multimedia	ING-INF/05	48	8
SECOND YEAR			
Industrial and network economy	SECS-P/01	48	8
International marketing	SECS-P/08	48	8
Advanced commercial law	IUS/04	48	8
One exam chosen among the following:			
AGRO-FOOD MARKETS (year 1)	AGR-01	48	8
ORGANISATION OF BUSINESS IT SYSTEMS	SECS-P/10	48	8
SOCIOLOGY OF CONSUMPTION AND ADVERTISING	SPS/08	48	8
One exam chosen among the following:			
Quality and customer relationships	SECS-P/13	48	8
Sustainability and environmental management	SECS-P/13	48	8
Training activities			
Free choice exam		48	8
Linguistic competence 3	L-LIN/12	24	4
Vocational activities (Web marketing workshop, digital competences workshop, training, project work, job)		200	8
Thesis			12

SUGGESTED STUDY PATHWAY IN MARKETING AND COMMUNICATION

Exam	CFUs
Internal auditing	8
Financial analysis and business plan	8
Marketing	8

Management and quality certification	8
Quality and customer relationships	8
International marketing	8
Industrial and network economy	8
Behavioural economy and theory of consumption	8
Statistics for market analysis	8
Advanced commercial law	8
Sociology of Consumption and Advertising	8
Marketing and big data analytics	8
Web marketing workshop	8
Free choice exam (suggested WEB and multimediality)	8
Digital competence workshop	8
Linguistic competence 3	8
Thesis	12

SECOND-LEVEL DEGREE COURSE (LM-76) CIRCULAR ECONOMY

GREEN

Exam	Professor	SSD	Year	Hours	CFUs
Consumer behaviour in circular economy	Still to be assigned	SECS-P/08	1	48	8
Micro and macro economic fundamentals of circular economy	Still to be assigned	SECS-P/01	1	48	8
History of sustainable economy	Still to be assigned	SECS-P/12	1	48	8
Policy for natural resources and the environment	Emanuele Blasi	SECS-P/02	1	48	8
Econometric models for circular economy	Still to be assigned	SECS-S/03	1	48	8
Economy and sustainable management of natural resources	Giacomo Branca	AGR/01	1	48	8
Technological innovation for circular economy (to chose wiht Resources, waste and environmental certificaion - year 2)	Enrico Maria Mosconi	SECS-P/13	1	48	8
European environmental law	Diego Vaiano	IUS/10	II	48	8
Sustainability and social responsibility in organisations	Still to be assigned	SECS-P/10	II	48	8
Resources, waste and environmental certification (to choose with technological innovation for circular economy - year 1)	Still to be assigned	SECS-P/13	II	48	8
Two exams chosen among the following:					
Reuse of waste and sustainable agriculture	Danilo Monarca	AGR/09	II	48	8
“Green” chemistry	Still to be assigned	CHIM/06	II	48	8
Energy efficiency and environmental impact	Marco Barbanera	ING-IND/11	II	48	8
Circular planning	Marco Marconi	ING-IND/15	II	48	8
Chosen by the student			II	48	8
For the final thesis			II		12
Internships, project work,			II		12

case studies, seminars and catalogue					
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BLUE

Exam	Professor	SSD	Year	Hours	CFUs
Micro and macro economic fundamentals of circular economy	Still to be assigned	SECS-P/01	1	48	8
History of sustainable economy	Still to be assigned	SECS-P/12	1	48	8
Policy for natural resources and the environment	Emanuele Blasi	SECS-P/02	1	48	8
Econometric models for circular economy	Still to be assigned	SECS-S/03	1	48	8
Economy and sustainable management of natural resources	Giacomo Branca	AGR/01	1	48	8
International marine law (to be chosen with environmental European law - year 2)	Still to be assigned	IUS/13	1	48	8
One exam chosen between:					
Consumer behaviour in circular economy	Still to be assigned	SECS-P/08	1	48	8
Technological innovation for circular economy	Enrico Maria Mosconi	SECS-P/13	1	48	8
Sea marketing	Still to be assigned	SECS-P/08	II	48	8
Two exams chosen among the following:					
Economy of sustainable tourist companies	Still to be assigned	SECS-P/07	II	48	8
Port activities management	Still to be assigned	SECS-P/13	II	48	8
European environmental law (to be chosen with international and marine law - year 1)	Diego Vaiano	IUS/10	II	48	8
Two exams chosen among the following:					
Circular planning	Marco Marconi	ING-IND/15	II	48	8
Industry digital and sustainable logistics	Still to be assigned	ING-IND/17	II	48	8
Tourism geography	Still to be assigned	M-GGR/01	II	48	8

Sea energy	Still to be assigned	ING-IND/08	II	48	8
Chosen by the student			II	48	8
For the final thesis			II		12
Internships, project work, case studies, seminars and catalogue			II		12

**SECOND-LEVEL DEGREE COURSE (LM-33)
MECHANICAL ENGINEERING**

MECHANICAL ENGINEERING

Exam	Professor	SSD	Year	Sem.	Hours	CFUs
Modelling and hydraulic planning Module 1	Still to be assigned	ICAR/02	1	1	40	5
Modelling and hydraulic planning Module 2	Andrea Petroselli	AGR/08	1	1	32	4
Machines complements and energy converter systems	Stefano Ubertini	ING-IND/08	1	1	72	9
Sensors and data acquisition systems	Stefano Rossi	ING-IND/12	1	1	72	9
Planning of energy transformation systems	Maurizio Carlini	ING-IND/09	1	2	72	9
Numerical methods for thermofluidodinamics	Mauro Scungio	ING-IND/10	1	2	48	6
Technologies and special processing	Gianluca Rubino	ING-IND/16	1	2	72	9
Machine construction	Pieluigi Fanelli	ING-IND/14	1	2	72	9
Energy and industrial systems management	Mauro Villarini	ING-IND/09	2	1	48	6
Technologies for nuclear fusion	Giuseppe Calabrò	ING-IND/31 ING-IND/19	2	1	72	9
Internal combustion engines and propulsion systems	Andrea Facci	ING-IND/08	2	1	48	6
Biosystems machines and structures	Massimo Cecchini	AGR/09	2	1	48	6
Environmental monitoring	Salvatore Grimaldi	AGR/08	2	1	72	9
Food technologies and systems	Marcello Fidaleo	AGR/15	2	1	48	6
Mechanical systems planning and modelling	Marco Marconi	ING-IND/15	2	1	48	6
Project and industrial systems management	Ilaria Baffo	ING-IND/17	2	2	72	9
English	Sonia Melchiorre	L-LIN/12	2	2	48	3
Workshops or training activities						6
Final test						15

**SECOND-LEVEL DEGREE COURSE (LM-62)
POLITICAL SCIENCE, INTERNATIONAL SECURITY AND PUBLIC
COMMUNICATIONS**

POLITICAL SCIENCE, INTERNATIONAL SECURITY AND PUBLIC COMMUNICATIONS

Cod.	Exam	CFUs
FIRST YEAR		
17827	Economy of development SECS-P/01	7
17829	Changing political cultures SPS/07	7
17830	Methodology of political and social research SPS/07	7
17826	Media semiotics M-FIL/05	7
17825	Contemporary history M-STO/04	7
	History of political institutions SPS/04	7
SECOND YEAR		
COMMUNICATION AREA		
17831	Public information law IUS/10	8
17835	Philosophy, politics and communication M-FIL/06	8
17834	Pragmatics of the political and public language M-FIL/05	8
17836	History of political and institutional communication M-STO/04	8
INTERNATIONAL SECURITY AREA		
17837	Environment, territory and economic development AGR/01 or State-run administration planning and management SECS-P/07	8
17840	International law IUS/13	8
17839	Political geography M-GGR/02	8
17841	History and geopolitics of international security SPS//06	8
	Training activities chosen by the student	8
	Linguistic abilities	16
	Other activities	6
	Final test	16
	Total CFUs	120

DEIM

**DEPARTMENT OF ECONOMICS, ENGINEERING, SOCIETY
AND ENTERPRISE**

DEPARTMENT HANDBOOK

ACADEMIC YEAR 2018 / 2019

The courses

Second cycle degree courses

Postgraduate study

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WELCOME

Professor Stefano Ubertini

Head of Department

The Department offers three three year degree courses:

- **Business Economics (L-18):**
Viterbo campus:
 - Management curriculum;
 - Banking and Finance curriculum;
 - Business Economics and Legislation curriculum;Civitavecchia campus:
 - Management curriculum;
 - Curriculum: Maritime and International Trade Economy.
- **Industrial Engineering (L-09);**
- **Political Science and International Relations (L-36):**
 - Political Science curriculum;
 - Investigations and Security curriculum.and five second level degree courses:
- **Administration, Finance and Control (LM-77);**
 - Administration and Control curriculum
 - Finance curriculum
 - Data Analytics and Economic Analysis curriculum
- **Marketing and Quality (LM-77);**
- **Circular Economy (LM-76)**
Civitavecchia campus
 - Blue Economy curriculum
 - Green Economy curriculum
- **Mechanical Engineering (LM-33);**
- **Political, International Security and Public Communication Sciences (LM-62)*.**

* Interdepartmental course (DISTU - DEIM)

The courses include two PhDs, the CRISIS First Level Master's Degree in Criminology and Forensic Science, Investigation and Security and an interdepartmental Master's Degree in Enogastronomy - Management, Enhancement and Promotion.

In recent years, the Department has invested in building a network of relationships with businesses and the job market. Students can therefore benefit from work placements, internships and project work. This is why most of our graduates find jobs relatively quickly.

The department offers degree courses in different facilities, each of which offers several services. The economy courses are mainly held in the Department's headquarters, in Via del Paradiso, which boast six classrooms, two IT labs and a reading room where students can go through the textbooks of the DEIM courses. The area of the DEIM department where engineering courses and the first-year courses for the three year degree course in Business Administration is in Largo dell'Università, in the Riello Campus, and it has five classrooms, three didactic-scientific laboratories, an IT lab, many areas for students and an access to the technical-scientific library hub with 180 seats and over 32.000 volumes. The Political Science courses are held in the university's headquarters (Santa Maria in Gradi), which offers well-equipped classrooms, IT labs and large student common areas. All the classrooms are equipped to allow multimedia lessons and all the areas and a good part of the Department's open areas offer Wi-Fi access and are connected to the university network. This allows free access to important databases, scientific journals and other electronic resources students need to study and learn. The courses are characterized by their highly qualified advanced research areas in both traditional and innovative sectors. They are coordinated by a team of dedicated

academics, with the support of young researchers, research fellows and PhD students. Particular attention is paid to the continuous programme update, the coordination of expertise developed in various academic areas and the development of innovative teaching methodologies (case studies, group work, simulations). The availability of highly qualified business experience leads to activities aimed at enhancing the development of competitive professional profiles.

The following pages provide a description of the degree programmes, the Department's teaching organisation and its facilities. The same information can be found on the Department's website (www.deim.unitus.it/), which is continuously updated.

Our goal is to give students a thorough grounding in the theoretical and practical aspects of business, and at the same time to enable them to study in a productive environment by providing them with the support they need in terms of assistance and services. This will enable students to face the challenges posed by today's world of work with the confidence and ability to put their training into practice.

DEIM

DEGREE COURSES

ACADEMIC YEAR 2018/2019

THREE YEAR DEGREE COURSE (L-18)

BUSINESS ADMINISTRATION

Degrees in Economics and Business Management

Course Director

Professor Tiziana Laureti

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Department of Economics,

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DEIM - Viterbo Campus

Via Del Paradiso, 47

Tel. 0761 357716

DEIM Business School, Civitavecchia

Piazza Verdi, 1

Tel. 0766 21600

Teaching Aims

The degree course provides students with a thorough grounding in the operating dynamics of companies through a rational balance of transversal competences (finance, business, law and maths-statistics). The logic of the course is to harmonise and integrate the different disciplines, in order to address various issues in an interdisciplinary way. We believe that this will provide students with the skills they need to manage difficult situations independently and enter the job market. Furthermore, graduates in Business Administration will be academically and pragmatically ready to continue their studies at a postgraduate level.

Starting from academic year 2016/2017, the Management curriculum that was available only in Viterbo will also be available at the Business School in Civitavecchia. 2018/2019, the Tourism Economics course in Civitavecchia has been replaced by the Maritime and International Trade Economy curriculum in order to meet the market's demand.

Responding to the job market's need is the reason why there are five degree courses. Three of them are in Viterbo and the remaining two are held at the Civitavecchia campus. These are all targeted to specific professional activities. The study plan includes English language studies and basic computer studies, workshops, work placements, internships, and other vocational activities in companies or institutions, and concludes with the preparation of a thesis. Graduates will therefore be able to understand and analyse a range of different economic and financial profiles in which companies work, because they possess specific technical-operational skills and a high level of interdisciplinary skills and practical experience. In sum, students can aspire to cover various roles of a mainly operational nature, with responsibility in many professional sectors.

For example, the course will prepare students for the managerial career prospects in the production and service industries, with auditing and consultancy businesses, financial institutions, private companies and public administrations.

A degree in Business Administration also allows graduates to access the state exams to enter the Register of Certified Public Accountants, Section B, in accordance with the access procedures of the said register.

In the academic year 2014/2015, an agreement was signed with the Order of Certified Public Accountants of Viterbo, thanks to which students have certain benefits regarding a traineeship and preparatory tests for the state exam in order to carry out the profession of Chartered Accountant. The agreement was also signed with the Order of Certified Public Accountants of Civitavecchia and Rieti in the academic year 2015/2016.

To access the agreement it is necessary to accrue university credits in specific areas during university, also by taking extra exams. For more information, visit the Department's Web page:

www.unitus.it/it/dipartimento/deim/mondo-del-lavoro-deim/articolo/abilitazione-alle-professioni-deim.

The **Management curriculum** (Viterbo and Civitavecchia) provides students with high-level training that will enable him to deal with different issues within a company in a professional and informed manner. Graduates acquire expertise that will enable them to take on many different roles, for example, in the management of production and service industries, in public and private companies, as well as in a freelance capacity and as a business consultant.

The **Banking and Finance curriculum** (Viterbo) is aimed at professional training for the banking and financial mediation sectors, in banks and other financial and securities markets. As a graduate, the main professional opportunities with this profile are in the sector of financial services (banks, insurance and financial services), consultancy activities for retail and corporate clients, informing and monitoring bank customers regarding banking and financial processes and working in risk assessment operational roles in business, both in banking and in industrial and commercial companies.

The **Business Economics and Legislation curriculum** (Viterbo) is aimed at training professionals who are able to operate in an informed manner, either within companies, or in the capacity of freelance consultants, by providing solid basic information regarding the administrative, financial, and legal aspects of corporate proceedings, and by representing the business and communicating to third parties.

The training offered by this curriculum enables students to apply for different jobs in freelance activities and business consultancy and in the development of a managerial career in businesses of different types and sizes, with a focus on the administrative and budgeting aspects.

The **Maritime and International Trade Economy curriculum** (Civitavecchia) aims at training students in both the basic disciplines of business administration, and in specific areas of the tourism and international trade sectors. Graduates will acquire competences allowing them to enter the job market and access a variety of career opportunities, both in company management and in self-employed jobs. Career opportunities include private and state-run transport and cruise companies, in particular in terms of planning, organisation and management of diverse services including stocking, inventory management and international trade.

Degree courses - academic year 2018/19

Deim 01 Business Administration (L-13)

THREE YEAR DEGREE COURSE (L-09)

INDUSTRIAL ENGINEERING

Degrees in Industrial Engineering

Course Director

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DEIM

Largo dell'Università

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The Industrial Engineering degree course provides solid basic technical knowledge that provides future engineers with the skills needed in order to produce, design, build and organize the tools required to operate in a professional environment.

After a first stage of basic education (mathematics, physics and chemistry), the aim of the course is to bring together the various disciplines and to integrate them, so that, as a graduate in Industrial Engineering, you will be competent to tackle various problems in an interdisciplinary way and able to manage them independently. In particular, the main learning activities of the degree course will provide graduates with competences in Mechanical, Energy, Security and Materials Engineering. Students will be able to choose supplementary or related subjects in order to focus on different areas through three groups of courses: economic-managerial, the environment and biosystems and industrial IT and big data.

The study plan includes English language studies and basic IT studies, workshops, work placements, internships, and other vocational activities in companies or institutions. Starting from this academic year, some characteristic learning and training activities will be carried out in English. At the end of the course, students will write and illustrate their written thesis. The teaching methods used are innovative, and include the following:

- teaching, learning and testing through lectures, tutorials, seminars with experts from specific national and international sectors; workshops and lab activities, from the first year of the course;
- guided study through mentoring activities, handouts and constant and continuous discussions with the academic staff, also by means of multimedia support;
- continuous assessment and follow-up, with homework and tests throughout the course;
- training and preparation for employment through internships in the networks of partner companies of the University of Tuscia, which, after 3 years of study, will confer a recognised qualification for the working world and for the continuation of studies.

The degree course in Industrial Engineering is organized and structured to provide students with the training they need to enter the job market after graduating from the three year degree course and after acquiring a sufficient amount of learning skills to undertake postgraduate studies, including a second level degree course in Mechanical Engineering offered by the Università della Tuscia.

A student who obtains a degree in Industrial Engineering can apply basic scientific knowledge, methods and tools for modelling and calculating mechanical, electrotechnical and energy systems of average complexity. These skills can be used: to identify, formulate and solve problems of industrial engineering, in the verification and design of simple machines and mechanical components, in the

analysis and solution of processing problems in industrial and technological production and manufacturing systems, in verification and preliminary design of energy systems, and in management of industrial projects of medium complexity with relative technical and economic analysis.

The achievement of these skills is acquired, not only thanks to the knowledge gained in lectures, but also through the examination of case studies and numerical and practical exercises in the lab or on the computer.

Industrial Engineering graduates have the knowledge they need in order to carry out different tasks: the executive planning of products and processes, product development, the installation and testing of machines and systems, the upkeep and management of productive departments, the choice of technology and their integration, product and service innovation, investment analysis and the carrying out of security, management, promotion, sale and technical assistance activities. Thanks to this versatility, official data show that the marketability of a bachelor's degree in industrial engineering in the work market is among the highest for both employment rate and stability of the workplace. The acquired knowledge allows graduates to work in different sectors: mechanical and electromechanical industries, plants for the production of electricity, manufacturing and engineering plants, public and private service firms, engineering companies, public and private organisations working in the mechanical and energy sectors, working as self-employed professionals in the planning and consultancy areas. The in-depth knowledge offered by supplementary or related courses allow industrial engineering graduates of University of Tuscia to find work even in the automation, industrial IT, marketing, industrial security and protection sectors and in the so-called "enabling technologies - Industry 4.0". Our graduates are able to carry out a range of different roles in companies. They will be able to find work in small and medium sized companies, which abound in Italy, thanks to their adaptable, flexible and multi-disciplinary approach.

A degree in industrial engineering will also enable graduates to access the state exams to enrol with the State Register of Certified Engineers, in accordance with the procedures of said register, and to subsequently work in planning and design and/or carry out consultancy work as a freelance engineer.

Degree courses - academic year 2018/19

Deim 02 Industrial Engineering L-09

THREE YEAR DEGREE COURSE (L-36)

POLITICAL SCIENCE AND INTERNATIONAL RELATIONS

Degrees in Political Science and International Relations

Course Director

Professor Flaminia Saccà

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SPRI

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The curriculum this degree course aims at the acquisition of multidisciplinary skills by providing the historical and institutional, socio-political and economic-legal tools, which will enable students to interpret and manage national and international complex organizational systems. The course also focusses on a comparative methodology in a national, European and international perspective. This is aimed at combining the best of the knowledge and skills used by a vast majority of Italian institutions, the European Community and international institutions. The Degree in Political Science and International Relations aims to provide graduates with the skills they need to understand and control globalization and socio-economic transformation, with specific attention to the issue of security, which affects the majority of contemporary European and international public policies. In particular, it provides students with critical knowledge of the key disciplines required by national, European and international administrations, focusing on world economic relations and the programming and management tools to be employed in both public and private sectors.

A further area of specialisation is to do with

the cultural and professional creation of decision-making and programming processes of EU institutions, both at a political and administrative, and an economic and monetary level.

Training operators who are expert in political and administrative management in international relations and therefore equipped with skills that qualify them to work in cooperation with others is becoming more and more important, and is being promoted by international organisations, such as the United Nations. Students who choose the Investigations and Safety curriculum will acquire specific skills related to investigative, political, administrative, economic, communicative and informative activities in the security sector. Knowledge and skills applicable in the defence sector are the particular aspects of the curricula reserved for the Italian Army (Organisational and Managerial Sciences) and Air Force NCO students (sciences and techniques of the air force jobs). Students will also learn a European Union language and a minimum of one more foreign language. Specific training activities include external activities, such as apprenticeships and internships at public institutions and private companies, businesses and government at a local, national or international level.

The Degree in Political Science and International Relations offers the possibility to opt for the curriculum in Political Science or the curriculum for Investigations and Security.

Political Science Curriculum

The degree course has an interdisciplinary approach, focussed on the development of programming capabilities and innovative operational strategies, by means of a thorough mastery of empirical

research methodology (political, sociological, statistical and quantitative, etc.) sufficient for vocational integration in the public and private sectors.

The employment and professional opportunities provided by the curriculum cover various areas, such as national and multinational businesses and private organizations, public administrations (ministries and local authorities), national public organizations, supranational and international, non-governmental organizations and voluntary organizations. The interdisciplinary character of the course also enables graduates to find employment in the area of communications (public relations management, journalism, publishing, organization of cultural events, etc.).

Investigations and Security Curriculum

The study plan aims at providing graduates with the above-mentioned competences and career prospects as well as a thorough grounding in the methodological-operational knowledge aimed at managing and organising the modern investigative and security strategies (specific subjects include: criminal law and procedures, criminology, forensic ballistics, forensic medicine, forensic genetics, techniques and activities of court authorities, investigative and privacy law, sociology of public safety, strategic studies for security, and marketing). This curriculum provides a valuable cultural and operational foundation for those who aspire to join the police or wish to participate in the national test for the role of Police Commissioner after obtaining the second level degree. Graduates will also be equipped with skills to undertake the profession of private investigator or business advisor (Agency owner - licensed by the Police Department).

The knowledge and competences acquired will also enable graduates to work with private organizations and companies that operate in the areas of investigation and security or which, for specific logistical and / or functional requirements, need the assistance of experts capable of processing, organizing and managing solutions designed to meet these needs (insurance companies, banks, airports, ports, and in any context where a security system to protect the public and the business is required).

For a Degree in SPRI to be conferred, you must acquire 180 CFU (university credits), by passing 6 exams in the core disciplines, 7 in course-related subjects and 7 from similar or integrative disciplines that make up and characterise the study plan. These are different for each individual curriculum for course-related and supplementary activities.

The educational model adopted ensures that the student is given assisted teaching throughout the curriculum, with access to specifically developed teaching materials and a repertoire of individual and / or group activities guided by a team of dedicated academic staff assigned to each curriculum. There are 20 examinations of core and complementary subjects, alongside the final assessment. Furthermore, knowledge of one European Union language (choice of French or Spanish) in addition to English (mandatory) will be assessed. All of this will equip you to enter the world of work or will act as a basis for further study.

Degree courses - academic year 2018/19

Deim 03 - Political science and international relations (L-36)

SECOND LEVEL DEGREE COURSE (LM-77) ADMINISTRATION, FINANCE AND CONTROL

Degrees in Economics and Business

Course Director

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The second cycle degree course in Administration, Finance and Control gives students advanced knowledge in business, law, statistics and mathematics, and economy. This prepares them to face business issues from a global point of view. The degree course aims at educating professionals possessing an overall knowledge of the tools needed for consultancy activities, the control of business processes, the analysis of financial markets and the management of financial data.

The degree course offers three curricula with a common core:

- Administration and control (for professionals in the business and professional services sector)
- Finance (for experts who are specialised in finance)
- Data Analytics and Economic Analysis (for experts in the financial and statistics sector)

The training programme includes: professional experiences such as internships and other activities in businesses, organisations of management consultancy firms, research organisations such as, for example, ENEA; control authorities such as Consob; an in-depth study of the English language. The course ends with the writing of a written dissertation showing that the student can master the theoretical and technical tools he has learnt about and that he can use them. The student will write his dissertation with the assistance of a professor.

Contacts with companies, banks, professional associations, regulatory authorities, other Italian and foreign universities, research organisations, and governmental authorities allow our students to acquire competences such as problem solving by combining their specialisation with a high versatility. These two elements are of paramount importance in such a fast-changing world.

Administration, Finance and Control graduates can work in managerial roles:

- accounting, administrative, control and managerial functions in businesses/companies of different kinds and sizes;
- in auditing;
- in consultancy and advisory firms;
- as self-employed chartered accountants;
- in the analysis and management of different financial and credit companies (commercial and investment banks, SGRs, insurance and other financial intermediaries);
- in risk management, assessment and monitoring, both in industrial and commercial enterprises and in financial institutions;
- in financial trading, financial engineering, corporate client desk and investment/financial bank institutions;
- as financial consultants;
- in institutions controlling markets and checking how they operate and in regulatory bodies;

- in research institutions and offices.

The second cycle degree course in Administration, Finance and Control allows access to the national register for Chartered Accountants and Expert Consultants according to the register's access procedures (section A). Thanks to a convention with the Order of Viterbo, students who have accumulated any credits during their university career in some scientific sectors also by taking extra exams will be able to use their university training to take the State exam and be exempted from taking the first written test. For more information please visit the Department's Web page:
<http://www.unitus.it/it/dipartimento/deim/mondo-del-lavoro-deim/articolo/abilitazione-alle-professioni-deim>

Degree courses - academic year 2018/19

Deim 04 - Administration, Finance and Control (LM-77)

SECOND LEVEL DEGREE COURSE (LM-77)

MARKETING AND QUALITY

Degrees in Economics and Business

Course Director

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Teaching Aims

The course in Marketing and Quality is characterized by being the only one in Italy to combine marketing and quality, both in the degree title and in the teaching aims. This choice is justified by the recognition of the importance of the customer in the success of a company and consequently the importance of marketing, as well as management and quality assurance, as strategic factors in creating competitive advantage.

Therefore, the importance of proper communication (online and offline) as an added value for businesses, is at the basis of the educational aims that integrates theoretical knowledge related to marketing (analysis and demand management, customer satisfaction, applied statistics) to concepts closely related to quality (certification, quality control, quality management).

In this perspective, the course provides students with the tools to deal with business problems according to an integrated view of business leadership and management, with particular reference to strategies, policies and marketing tools, and to relations with customers and quality.

In most cases, practical skills are carried out, when the teaching programme permits, thus offering lectures, practical work and group work, in regular contact with businesses, that allow students to put into practice the skills acquired during the course. The study programme also includes case studies and the organization of thematic seminars.

Starting from academic year 2016-2017, it is also possible to create an ad hoc study pathway for students wishing to specialize in Marketing and Communication, which provides, in addition to the compulsory examinations, the following exam modules to choose from: Internal Auditing or financial analysis and business plan, marketing and big data analytics, Behavioural Economics and Theory of Consumption, Quality and Customer Relations, Sociology of Consumption and Advertising, Web and Multimedia. The Department also offers a Web Marketing workshop among the vocational activities.

The academic programme includes the study of the English language and vocational activities such as apprenticeships, internships and project work, in businesses, institutions and in management consultancy firms. At the end of the course, students will write a paper that containing elements of originality, under the supervision of a professor from one of the graduate programmes.

The possible employment opportunities are primarily in management in the sector of economics and business. In particular, the main employment opportunities for the graduate in Marketing and Quality are:

- in professional, managerial and leadership careers in marketing, organization, production, sales, quality, administration, and management;
- in business and management consultancy activities in different forms and sectors;
- quality managers, evaluators and auditors;

- as a consultant in marketing, local development, national development, and technology transfer.

The Master of Science in Marketing and Quality also allows access to the state boards for membership in Section A of the Register of Certified Public Accountants, in accordance with the procedures of regulated access by said register.

Degree courses - academic year 2018/19

Deim 05 - Marketing and Quality (LM-77)

SECOND LEVEL DEGREE COURSE (LM-76)

CIRCULAR ECONOMY

Course Director

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The degree course in Circular Economy offers a high level of specialisation in Circular Economy and it aims at providing students with a series of innovative tools to work in a financial and environmental sustainability context. It aims at enhancing natural resources, the use of secondary raw materials, the sustainable management of the value chain and the activation of industrial symbiosis.

The degree course aims at giving students the competences they need to work in a conscious way in different areas which are often heterogeneous but which have one thing in common: the opportunity to integrate technological innovation and new competences with converting production and sustainable development. The course has one common core, that of learning themes, methods and tools that are typical of circular economy, and it offers two curricula.

The Green curriculum is focussed on industrial production from a circular economy perspective. Each process is characterised by a sustainable approach through a reduced use of traditional raw materials, the use of new forms of energy, recovery and recycling, the use of natural substances and production waste from other sectors.

The Blue curriculum explores the circular approach in maritime economy, in all its aspects (tourism, nature, logistics, commerce). Circular Economy graduates will be able to work in different sectors and they will be able to cover innovative roles which are in line with the market and, in general, with economy. The second cycle degree course in Circular Economy allows access to the national register for Chartered Accountants and Expert Consultants according to the register's access procedures (section A).

Degree courses - academic year 2018/19

Deim 06 Circular Economy (LM-76)

SECOND LEVEL DEGREE COURSE (LM-33) MECHANICAL ENGINEERING

Course Director

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The second level degree course in Mechanical Engineering is a natural completion of training for graduates of the Bachelor's Degree in Industrial Engineering. Therefore, the programmed training activities will be strongly oriented towards specialising in methodological and conceptual engineering subjects which were initiated during the bachelor's degree course. Planning, production and monitoring and control of individual mechanical components and machines and plants and the main industrial processes will be studied in-depth. The advanced analysis and planning methodologies with a specific reference to numeric methodologies (FEM, CFD, assisted drawing with a calculator) and rapid prototyping will be given a major role.

In addition to the compulsory subjects, linguistic level, thesis and internship, the student will have the opportunity to choose between two possible study pathways:

- **Energy:**

the study pathway aims to provide students with the basic theoretical concepts, the tools and methodologies needed to address complex and innovative issues related to energy conversion systems, including thermonuclear fusion, transfer of energy, accumulation and transformation of electrical energy and the application in this area of processing technologies and innovative materials.

- **Mechanics of Biosystems Engineering Curriculum:**

Allows students to acquire in-depth knowledge on hydrology, agroforestry, agro.food, which represent key elements in the Italian social, scientific and industrial sectors. Specifically, it aims to form a mechanical engineer who is able to present a comprehensive profile to the labour market, in the sector of hydrological and environmental monitoring, technological advancement for agriculture and the optimization of the agro-food supply chain industry.

Degree courses - academic year 2018/19

Deim 07 - Mechanical Engineering (LM-33)

SECOND LEVEL DEGREE COURSE (LM-62)

POLITICAL SCIENCE, INTERNATIONAL SECURITY AND PUBLIC COMMUNICATIONS

Interdepartmental degree course (DISTU - DEIM)

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Teaching department

Department of linguistic, literary, historical, linguistic, literary, historical, philosophical and legal studies (DISTU)

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Teaching Aims

Starting from academic year 2016-2017, the Department of Economics, Engineering, Society and Enterprise (DEIM) and the Department of Linguistic and Literary, Historical, Philosophical and Legal Studies (DISTU) of the University of Tuscia are activating a second level degree course in Political Science, International Security and Public Communications (LM-62).

Students will be granted 29 CFUs to those students who wish to continue their studies with the LM-62 course and who attend lessons of the first level Master's Degree Course 'Master Crisis - Criminology and Forensic Science, Investigation and Security'.

The course is designed both to enable three-year degree students of Political Science and International Relations to complete their academic program, and to offer three-year degree graduates from other courses of study (e.g. L-11, L-14, L-16, L-18, L-20) to deepen their knowledge in a field of interest closely related to their undergraduate studies.

The second level degree course in Political Science, International Security and Public Communications offers a multidisciplinary approach. The themes of politics, economics, law, sociology and history interact with the language of public communications.

The two year course includes twelve core subjects. In the second year, there are a series of options, which include theoretical studies and practical activities, to enable students to focus on two different areas:

- knowledge of public and political languages, and the mechanisms of public communication and media systems with which we communicate in contemporary society;
- aspects of geopolitics and international security, for example, relations between states and the processes that signal the emergence of political or military issues which transcend national borders.
- In addition, sixteen CFUs are granted for two foreign languages and these enable students to attend the Writing Workshop, through which they may gain full language proficiency both in Italian and in two foreign languages (English is a second language of the EU). These are essential skills to prepare students for their future professional careers.

Career opportunities

The Master's Degree in Political, International Security and Public Communication Sciences leads to two specific cultural and professional profiles:

- The profile of operator and senior expert in political science, with employment opportunities in public and private administrations, both national and international; in political institutions and public and private associations, in governmental and non-governmental organizations, public and private companies that operate internationally in the field of security;

- a graduate who has focused on management and public communication can find employment opportunities in national and international governmental institutions, consultancy firms, in political parties and associations, in the communications offices of governmental and public organizations, in private companies, editorial offices, radio and television journalism; in addition to the on-line marketing and communication offices of public and private companies.

The training profiles allow access to the following jobs:

- Specialists in the management of the public administration
- Specialists in the control of the public administration
- Specialists in public security
- Specialists in public relations, image and similar roles
- Specialists in political science
- Advertisement copywriters

In order to ensure a rapid and effective transition from university to the working world, the Master's course programme in Political Science, International Security and Public Communications organises work experience and internships at public and private organizations, both national and international, and gives the opportunity to access the Erasmus Plus programme grants.

Degree courses - academic year 2018/19

Deim 08 Political Science, International Security LM-62

POSTGRADUATE STUDIES HIGH FORMATION

PhD in

Economics, Management and Quantitative Methods External PhD programmes

Teaching Aims

The PhD course offers a high-level training programme in economics, business and mathematics-statistics for graduates who can understand the challenges of current economics: the social and environmental sustainability of economic development and of the use of natural resources; changes in the consumer role, work, and markets as a consequence of innovation.

The PhD maximises the knowledge of the professors in three areas: agro-food economy (specialised in the financial analysis of the agro-food system, its policies and its close connection with the global economic development at a global and local level); circular economy, which is collaborative and sustainable (specialised in the study of economy models and processes aimed at recycling and reuse, sustainability, ethics and inclusion); economy and government in the digital transformation of small and medium-sized enterprises (specialised in digital transformation analysis, in the new competences required and in the use of business data and support of decisional processes, quality control and marketing).

These three areas are based on an interdisciplinary programme on border economic and economic-business theories, in the common use of quantitative methods as a tool for analysis and the interpretation of functional data for research and studies of/solutions to financial, business and economic policies issues.

Career opportunities

The PhD aims at providing high-quality competences and specialisation to those who will work in leadership and managerial roles in public authorities or businesses and in research and teaching in universities and in other national and international institutions. As for job opportunities in the public and private sectors, PhD graduates will be able to: (i) work as a high-level analyst or director, or manager in production, marketing, quality and sales; (ii) help small and medium-sized companies develop the potential offered by data resulting from digital transformation and by the technologies creating them; (iii) plan and manage local and rural areas development, and support the development of the related economic policies; (iv) plan, evaluate and monitor investment projects.

PhD in

Engineering for Energy and the Environment

Course Coordinator

Professor Danilo Monarca

Departments

DEIM Department of Economics,
Engineering, Society and Enterprise
and DAFNE Science and Technology
of Agriculture, Forestry,
Nature and Energy.

As part of higher education reserved for students who hold a master's degree, the Department of Economics, Engineering, Society and Enterprise (DEIM) in cooperation with the Department of Science and Technology of Agriculture, Forestry, Nature and Energy offers a three-year PhD

programme in "Engineering for Energy and Environment". The PhD aims to provide a high level of training to a select number of young graduates who will be competitive on a national and international level in highly technological private companies, research centres and universities. The main objective is to provide an interdisciplinary view of engineering problems in the energy and environment sectors, characterized by cutting-edge technological development. The research activities will be focused on the study of engineering solutions, manufacturing technologies and innovative investigative methodologies using numerical and experimental techniques, with particular attention to their technological transfer. Students will be engaged in training and research in the field of Engineering for Energy and Environment, with particular reference to the technologies for thermonuclear fusion, conversion processes and energy storage in its various forms, protection of the environment, innovations in the fields of mechanics, also agricultural, sensor technologies, biosystems and agricultural issues, with regard to primary production and environment.

The work of doctoral students will be coordinated by the academic staff of the School who are already active in industrial collaboration and research projects, at national and international level, in innovative and relevant topics, such as hydrogen technologies, renewable energy, biomass, biosystems and thermonuclear fusion. The PhD course offers the following workshops: the CIRDER laboratory for renewable energy, the MecHydroLab for environmental monitoring, the laboratory of industrial engineering, the LABDIAC for material sciences, and the ERGOLAB for the detection of risk agents. The School also benefits from using "external" laboratories, such as the ENEA Frascati Laboratory (Fusion and Technologies for Nuclear Safety Department) and the Max Planck Institut fuer Plasma Physics Laboratory (Germany).

The skills acquired on completion of the course will make doctoral graduates suitable to fill professional positions and research activities, with particular reference to the energy and environmental fields, for example in:

- professional advisory institutes;
- small, medium and large industries;
- public institutions, including agencies and authorities;
- public and private research centres;
- universities.

The decision to focus doctoral research on the subject of energy responds to the demands of a booming market and the growing demand in the field of hydrogen technologies, energy storage systems, renewable energy and thermonuclear fusion. The latter is an area in which our country is a pioneer in the world and involves Italian and European high-tech industries, research centres and universities, already active in this doctoral course, both through scientific collaboration and the funding of scholarships. Rapid technological development makes the figure of the future research doctor fundamental for various sectors. For this purpose, in the study pathway employment opportunities and research is also provided, by creating multidisciplinary contexts within the field of environmental monitoring and control, biosystems and agro-environmental issues, given the vocation of the Italian territory, the importance of the sector in the national economic environment and in Italian leadership from a scientific and industrial point of view.

FIRST-LEVEL MASTER PROGRAMMES

CRISIS - The Science of Criminology and Forensic Science, Investigation and Security

The University of Tuscia follows on from the success of its three year degree course in Political science and international relations - Investigations and Security Curriculum (LM-36) - active from academic year 2013-2014 with hundreds of enrolled students coming from the whole country and from the growing importance of the Law degree (LMG/01). The university has decided to widen its courses with a first level Master's Degree in Science of Criminology and Forensic Science, Investigation and Security, which in academic year 2018-2019 is at its second year.

Teaching Aims

The CRISIS Master's Degree lasts six months and it provides theoretical and practical knowledge aimed at a study plan that is focussed on giving young graduates the opportunity to complete, perfect or acquire didactic and scientific competences in areas pertaining to criminology and forensic science. The Master's Degree also aims at providing in-depth methodological competences through an innovative and multidisciplinary and operative approach allowing students to acquire professional skills that will help them to understand and better manage modern prevention strategies as well as opposition to illegality, corruption and organised crime strategies. The Master's Degree offers graduates a technical and operational background that will help them understand security issues within organisational and managerial processes related to state-run and private institution. This will allow them to analyse, process and evaluate conflicts within complexity scenarios with specific reference to individual threats, in terms of internal and external security.

Beneficiaries

The Master's Degree is aimed at those who are interested in developing good professional skills in criminology, forensic science, investigation and security; beneficiaries include graduates possessing the titles needed to access the course (three year degree or specialised degree). Professionals include lawyers, psychologists, psychiatrists, doctors, sociologists, biologists, private investigators, social and health workers, prison directors and workers who work in the Armed Forces and in the police, urban and company safety personnel, professionals working in intelligence.

Didactic activity

The didactic activity includes frontal lessons in the classroom and workshops as well as the opportunity to take part in curricular internships. Courses subjects include criminology, forensic psychology, legal medicine, forensic genetics, neuroscience, graphology, anti-money laundering laws, anti-mafia and intelligence and anti-terrorist law, public prosecution and defence. The acquired CFUs will be accepted for the enrolment to the second level degree courses. In particular, the degree in "Political Science, International Security and Public Communications" (LM62) accepts 29 CFUs.

First level Master's Degree in

Enogastronomy - Management, Enhancement and Promotion

The aim of the master's degree course is:

- to train highly specialised professionals, with multidisciplinary skills, able to know, understand, evaluate and interpret with expertise the quality of enogastronomic products and activities, and to promote an efficient strategy of enhancement. Today, highly skilled professionals in this field are difficult to find in the current marketplace.
- The course aims to enable you to acquire the technical communicative tools with a view to creating an awareness of the quality of foods, which is essential to successfully evaluate, enhance and/or manage a product.

The master's course will suit students who are interested in working or already work in the agro-food, restaurant and services sectors. It could also be of interest for students who wish to pursue a freelance career or embark on a professional activity in the field of communication and in journalism specialising in tourism or enogastronomy.

The master's course is organized in three macro areas, divided into various modules, for a total of 60 CFU:

- Macro area 1

Communication and advertising:
for a total of 7 CFUs

- Macro area 2

Business, management and quality:
for a total of 7 CFUs

- Macro area 3

Agro-food:
for a total of 10 CFUs

- Practical activities and workshops:
for a total of 10 CFUs

- Visits to businesses, planning and analysis of case studies, communication and marketing:
for a total of 16 CFUs

The programme offers students the possibility to study single modules, which could be useful if you want to improve specific business skills. This could interest you for professional or cultural reasons, or if you do not have the necessary entry qualifications for the course (three-year degree or equivalent), or if you do not wish to attend the entire course. Furthermore, it could give you the opportunity to strengthen technical or marketing skills or to better manage your own business.

It is possible to enrol on single or multiple modular courses, without having to complete the whole master's study programme.

You can enrol on the master's degree course if you have a three-year degree in any subject in the field of humanities or science.

Students will be granted the postgraduate Master's Degree in Enogastronomy - Management, Enhancement and Promotion if they attend lessons, pass the module exams and the final exam.

USEFUL INFORMATION

Three year degree course

- **Entry tests**
- **Pre-courses and mentoring**

As regards enrolment to one of the three year degree courses of the Department of Economics, Engineering, Society and Enterprise, according to current legislation (D.M. 270/04), students will have to undergo a multiple choice entry test aimed at testing the basic knowledge and individual knowledge. The test is compulsory for all degree courses but is aimed at only acting as a selection tool for the Industrial Engineering course. For all courses, the department offers students who did not pass the test about mentoring systems aimed at strengthening the competences needed to follow the courses and take the exams.

Students whose test results are not satisfactory will fill the gaps by attending support activities/lessons. At the end of these activities/lessons, students will undergo a final test. Terms and ways to carry out these activities will be published on the department's website on the study courses pages.

Second cycle degree courses

- **Access requirements**
- **Pre-courses**

Students wishing to enrol in the master's degree courses of the Department of Economics, Engineering, Society and Enterprise of the LM-77 Business Administration, Finance and Control or Marketing and Quality course must verify that they meet the following qualification criteria: Second level degree courses of the LM-77 Business Administration, Finance and Control or Marketing and Quality course have the following requirements:

- Bachelor's degree in courses L-18 or L-33 (or equivalent in accordance with legislation DM 509/99, L-17 and L-28);
- in the absence of the above requirements, students will have to acquire at least 48 credits in specific scientific areas, according to the following:

- **LM -77**

For the Master's Degree in Accounting, Finance and Control:

- at least 12 CFUs in the SSD SECS-P/01 and/or SSD - SECS-P/02 (Economic Policy I, Economic Policy II or Economic Policy);
- at least 12 credits in SSD SECS-P / 07 (Business Economics and Accounting);
- at least 6 credits in SSD IUS / 01 (Private Law);
- at least 6 credits in SSD IUS / 04 (Commercial Law);
- at least 6 credits in SSD SECS-S / 01 or SECS-S / 03 (Statistics);
- at least 6 credits in SSD SECS-S / 06 (General Mathematics).

Second level degree course in Marketing and quality:

- from 8 to 16 CFUs in the SSD SECS-P/08;
- at least 8 CFUs in the SSD SECS-P/01 or SECS-P/02;
- at least 8 CFUs in the SSD SECS-S/01 or SECS-S/03;
- from 8 to 16 CFUs in the SSD SECS-P/07;
- from 8 to 16 CFUs in the SSD IUS/01 or IUS/04;

Students with training gaps compared to the curriculum prerequisites will have to be filled before the beginning of the degree course and the testing of the individual knowledge of each student so that courses can be attended with success. Students will be tested to check their individual knowledge in the manners stated in the Regulations of the study course.

• **LM-76**

In order to access the second level degree course in Circular Economy it is necessary to have a three year degree course in L-18 or L-33. Students who do not possess the above-mentioned requisite will have to acquire a minimum of 48 CFUs in basic and main SSDs listed in the table that is attached to DM 16th March 2007 for degree classes 18 and 33 and/or SSDs from MAT/01 to MAT/09 included, INF/01, ING-INF/05, ING-IND/17, ING-IND/35.

• **LM-33**

For more information on the second level degree course in Mechanical Engineering, visit the following Web page: <http://www.unitus.it/it/dipartimento/deim-ingegneria/ingegneria-meccanica-ing/articolo/requisiti-accesso-ing-mecc-deim>

Mentoring service

The mentoring activities are carried out by carefully selected students
tutordeim@unitus.it

The mentoring service, provided by young graduates or students enrolled in master's degree programmes of the School, perform the basic function of following new students throughout their education, from the last year of high school right up to postgraduate level.

The service is aimed at second level degree course students who have already followed the three year degree course but have also started following the second level degree course. This means that they are able to guide, support and welcome any questions or requests from the students.

The mentors' tasks are as follows:

- to cooperate in different orientation initiatives for high school students;
- to welcome and offer assistance to freshers;
- to give orientation and assistance during the course of study, to encourage students to attend and participate actively in the courses by removing any obstacles to a successful educational process;
- to interact with the Department Academic Office.

ACADEMIC CALENDAR

Lessons

Teaching First Semester

from 01/10/2018 to 21/12/2018

Lessons Second Semester

from 04/03/2019 to 31/05/2019

Holidays

Christmas start 22/12/2018

Lessons start 07/01/2019

Easter start 19/04/2019

Lessons start 29/04/2019

Exams

Special session reserved for students who have not completed exams in the allotted time for academic year 2017 -2018

From 17/12/2018 to 21/12/2018

One session per subject

Winter session (academic year 2017/18) Early summer session academic year 2018/19

from 07/01/2019 to 28/02/2019

(Three sessions per subject)

from 01/03/2019 to 08/03/2019

A fourth session will be organised only for the 1st year-1st semester courses of second level degree courses.

Special session reserved for students who have not completed exams in the allotted time for academic year 2017 -2018

From 08/04/2019 to 12/04/2019

(one session per subject)

Summer session (academic year 2018/19)

from 03/06/2019 to 26/07/2019

(three sessions per subject)

Autumn session (academic year 2018/19)

from 05/09/2019 to 30/09/2019

(two sessions per subject)

OFFICES AND STUDENT SERVICES

Department Administration

Via del Paradiso , 47
deim@unitus.it

Academic Office

Business Administration, Finance and Control Administration, Marketing and Quality

Via del Paradiso, 47 Viterbo
Tel. 0761 357716 Fax 0761 357715 deim@unitus.it

Opening Hours:

Monday to Thursday: 10:00am - 12:00pm

Monday and Tuesday 3:00pm - 4:30pm

Business Administration, Circular Economy Civitavecchia Campus

Piazza Verdi, 1, Civitavecchia
Tel. 0766 21600 - 28931 deim@unitus.it

Opening Hours:

Monday to Friday: 10:00am to 12:30pm

Mon - Tue - Thu - Fri: 2:00pm to 4:00pm

Industrial Engineering/Mechanical Engineering

Largo dell'University snc, Viterbo
Tel. 0761 357169 deimingegneria@unitus.it

Opening Hours:

Monday to Friday: 10:00am - 1:00pm

Tuesday and Wednesday 3:00pm - 4:30pm

Political science and international relations

Via Santa Maria in Gradi, 4, Viterbo

Tel. 0761 357827 - 838

segr.didattica.soge@unitus.it

Opening Hours:

Monday to Friday: 10:00am - 12:00pm

Tuesday and Wednesday 3:00pm - 4:00pm

Computer Labs

Computer Lab I

Via del Paradiso , 47

Opening Hours:

Monday to Friday: 9:00am - 7:00pm

Computer Lab II

(reserved for teaching
activities)

Via Palmanova, Viterbo

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Tel. 0761 357982 - unitusjob@unitus.it

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