

UNIVERSITA' POLITECNICA DELLE MARCHE



Annex A

PH.D. COURSE OF AGRICULTURE, FOOD AND ENVIRONMENTAL SCIENCES

Coordinator Prof. Bruno Mezzetti

Scientific Areas:	AGR/01, AGR/02, AGR/03, AGR/05, AGR/07, AGR/13, AGR/14, AGR/09, AGR/11, AGR/12, AGR/15, AGR/16, AGR/18, BIO/03, BIO/10, CHIM/06
Method of selection	Examination based on qualifications: maximum score 40/100 Interview: maximum score 60/100
Interview schedule	Ordinary session: 11th July, 2018, at 9.30 a.m. at the Hall 140/3 at the Department of Agriculture, Food and Environmental Sciences - Polo Montedago - Via Brecce Bianche - Ancona
Examination topics:	The interview consists of 2 identical questions for all candidates, regarding the past activities carried out by the applicant and the proposed research activity to be developed in the areas of the doctorate. It will also assess the knowledge of a foreign language by reading a passage from a text (English, French, Spanish or German).

ORDINARY SESSION

N. 7 ordinary positions	In detail: n. 5 with scholarship financed by the University n. 2 without scholarship
N. 1 position only for students with a degree obtained abroad	With scholarship financed by the University

PH.D. COURSE OF MANAGEMENT AND LAW

with the following curricula:

- 1) BUSINESS ECONOMICS AND MANAGEMENT
- 2) ECONOMIC LAW

Coordinator Prof.ssa Caterina Lucarelli

Scientific areas	SECS-P/07, SECS-P/08, SECS-P/11, SECS-P/10, SECS-S/06, JUS/01, JUS/07, JUS/12
Method of selection	Examination based on qualifications: maximum score 40/100 Interview: maximum score 60/100
Interview schedule	Ordinary session: 11th July, 2018, at 2.00 p.m. at the Management Department- Faculty of Economics "G. Fuà" – Piazzale Martelli, 8 - Ancona

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Examination topics:	<p>Curriculum "Business Economics and Management": General issues regarding the wide area Business Management, such as, for instance, accounting, management control, organization studies, corporate strategy, marketing, corporate finance, financial intermediaries. Candidate's motivations: research project</p> <p>Curriculum "Economic law": Legality and markets in the Italian-European perspective of the sources. Pluralism of the sources and pluralism of jurisdictions: the loyal collaboration between Supreme Courts. Role and evolution of globalization on the source system. Contracts and markets. The "degiurisdizionalization". ADRs between European prospects and national needs. Arbitration in Italian law. Arbitration in international relations. Foreign arbitration. International arbitration. Recognition and execution of foreign and international awards. Labour law. Competition and market discipline: the role of the Authorities as market arbitrators. Candidate's motivations: research project</p>
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ORDINARY SESSION

N. 8 ordinary positions	In detail: n. 5 with scholarship financed by the University n. 1 with scholarship financed funded through the Development Projects by excellence department Management n. 2 without scholarship
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PH.D. COURSE OF ECONOMICS

Coordinator Prof. Riccardo Lucchetti

Scientific areas	SECS-P/01, SECS-P/02, SECS-P/03, SECS-P/06, SECS-P/05, SECS-P/12, SECS-S/01, SECS-S/03, SECS-S/04, SECS-S/06
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Method of selection	Examination based on qualifications: maximum score 30/100 Interview: maximum score 70/100
Interview schedule	Ordinary session: 9th July, 2018, at 9.30 a.m. at the Board Hall of the Dean's Office – 3 rd floor - at the Faculty of Economics "G. Fuà" – Piazzale Martelli, 8 – Ancona
Examination topics:	Microeconomics – Macroeconomics – Econometrics

ORDINARY SESSION

N. 8 ordinary positions	In detail: n. 6 with scholarship financed by the University n. 2 without scholarship
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PH.D. COURSE OF CIVIL, ENVIRONMENTAL AND BUILDING ENGINEERING AND ARCHITECTURE

with the following curricula:

- 1) CIVIL, ENVIRONMENTAL AND BUILDING ENGINEERING AND ARCHITECTURE
- 2) INTEGRATED FACILITY ENGINEERING AND RESILIENT ENVIRONMENTAL

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3) VITRUVIAN STUDIES

Coordinator Prof. Stefano Lenci

Scientific areas:	ICAR/01, ICAR/02, ICAR/03, ICAR/04, ICAR/06, ICAR/07, ICAR/08, ICAR/09, ICAR/10, ICAR/11, ICAR/14, ICAR/17, ICAR/18, ICAR/19, ING-IND/25, MAT/03, MAT/05, MAT/07, GEO/05, L-ANT/07, IUS/07
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Method of selection	Examination based on qualifications: maximum score 30/100 Interview: maximum score 70/100
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Interview schedule	Ordinary session: 12th July, 2018, at 9.00 a.m. at the Polyfunctional Hall at the Faculty of Engineering – Polo Montedago – via Brecce Bianche - Ancona
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Examination topics:	The applicants must prove to have the knowledge and the abilities to work in the following research topic: Curricula “Civil, Environmental and Building Engineering and Architecture” and “Integrated Facility Engineering and Resilient Environmental” Technical architecture, building production, structural mechanics, building technology, steel structures, sciences of concrete building, building in seismic areas, road materials and pavements, road maintenance and safety, hydraulics, hydraulics engineering, fluid mechanics, environmental hydraulics, maritime hydraulics, maritime engineering, geotechnics, foundations and soil consolidation, geotechnical works, environmental geotechnics, applied geology, chemical plants, environmental chemistry, chemical foundations of technologies, environmental-sanitary engineering, history of architecture, drawing, mapping, architectural composition, restoration, topography, safety in workplaces and building sites. Curriculum Vitruvian Studies Archeology, history of architecture, drawing, mapping, architectural composition, restoration.
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ORDINARY SESSION

N. 10 Ordinary positions	In detail: n. 5 with scholarship financed by the University for the curricula “Civil, Environmental and Building Engineering and Architecture” and “Vitruvian Studies” n. 2 with scholarship financed through the Development Projects by excellence department DICEA for the curriculum “Integrated Facility Engineering and Resilient Environmental” n. 3 without scholarship
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N. 2 positions only for students with a degree obtained abroad	With scholarship financed by the University
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PH.D. COURSE OF INFORMATION ENGINEERING

with the following curricula:

- 1) BIOMEDICAL, ELECTRONICS AND TELECOMMUNICATION ENGINEERING
- 2) COMPUTER, MANAGEMENT AND AUTOMATION ENGINEERING

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Coordinator Prof. Francesco Piazza

Scientific areas:	ING-INF/01, ING-INF/02, ING-INF/03, ING-INF/04, ING-INF/05, ING-INF/06, ING-IND/31, MAT/05, MAT/09, SECS-P/06, FIS/01, MED/09
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Method of selection	Examination based on qualifications: maximum score 30/100 Interview: maximum score 70/100
Interview schedule	Ordinary session: 11th July, 2018, at 9.00 a.m. Hall 160/2 at the Faculty of Engineering – Polo Montedago – via Breccie Bianche - Ancona
Examination topics:	Curriculum “Biomedical, Electronics and Telecommunication Engineering”: General issues on the following interdisciplinary topics: Electromagnetic Fields, Antennas, Microwaves, Photonics, Biological Systems Models, Bioengineering of the Physiological Systems, Biomechanics of Movement, Data Processing and Biological Signal, Electronics, Telecommunications, Electrotechnics, Electrical Measurements, Microelectronics, Technologies for Telecommunications Systems, Circuits and algorithms for Signal Processing, Cryptography and Techniques for Information protection. Curriculum “Computer, Management and Automation Engineering”: General issues on the following interdisciplinary topics: Automatics, Control and Filtering, Economics-Management Engineering, Interpretation and Simulation of the Behaviour of Physiological Systems, Mechatronics, Operational Research, Robotics, Information Systems, Intelligent Systems, Network Security.

ORDINARY SESSION

n. 8 ordinary positions	In detail: n. 6 with scholarship financed by the University n. 2 without scholarship
N. 1 position only for students with a degree obtained abroad	With scholarship financed by the University

PH.D. COURSE OF INDUSTRIAL ENGINEERING

with the following curricula:

- 1) MECHANICAL ENGINEERING
- 2) ENERGY ENGINEERING
- 3) MATERIALS ENGINEERING

Coordinator Prof. Ferruccio Mandorli

Scientific areas	ING-IND 06, ING-IND/13, ING-IND/14, ING-IND/15, ING-IND/21, ING-IND/16, ING-IND/17, ING-IND/09, ING-IND/10, ING-IND/11, ING-IND/22, ING-IND/12, FIS-01, MAT/03, MAT/05, ING-IND/08
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Method of selection	Examination based on qualifications: maximum score 30/100 Interview: maximum score 70/100
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Interview schedule	Ordinary session: 13th July, 2018, at 9.00 a.m. at the Hall EN3 of the Faculty of Engineering – Polo Montedago – via Breccie Bianche - Ancona
Examination topics	The candidates will be interviewed about their past and present research activities and about their proposal for a Ph.D. research project, related to the topics of the industrial engineering course, with particular reference to the research fields related to the three curricula, as listed below: Curriculum “Mechanical Engineering”: Drawing and Methods of Industrial Engineering, Applied Mechanics, Robotics, Metallurgy, Mechanic and Thermal Measurements, Biomedical Instrumentation, Mechanical Design and Machine Construction, Manufacturing systems and technologies. Curriculum “Energy Engineering”: Energetics, environmental engineering physics, Industrial Engineering physics, Fluid mechanics, Industrial plants, Mechanical plants, Logistics, Machines, Energetic systems. Curriculum “Materials Engineering”: Biomaterials, Corrosion and materials protection, Construction material science and technology, Plastic and composite technology, Technologies for Waste treatment and pollution control, Experimental material physics.

ORDINARY SESSION

N. 8 ordinary positions	In detail: n. 6 with scholarship financed by the University n. 2 without scholarship
N. 1 position only for students with a degree obtained abroad	With scholarship financed by the University

PH.D. SCHOOL OF MEDICINE AND SURGERY

PH.D. COURSE OF HUMAN HEALTH

Coordinator Prof. Armando Gabrielli

Scientific areas:	BIO/09, BIO/16, BIO/17, MED/04, MED/06, MED/09, MED/12, MED/13, MED/16, MED/18, MED/19, MED/26, MED/33, MED/34, MED/35, MED/44
Method of selection	Examination based on qualifications: maximum score 20/100 Interview: maximum score 80/100
Interview schedule	Ordinary session: 6th July, 2018, at 9.00 a.m. at the Hall P Polo Murri – Faculty of Medicine and Surgery – via Tronto – Torrette di Ancona
Examination topics:	Physiology, Human Anatomy, Histology, History of Medicine, General Pathology and Clinical Pathology, Medical Oncology, Internal Medicine, Gastroenterology, Endocrinology, Blood Diseases, Rheumatology, General Surgery, Plastic Surgery, Neurology, Neurosurgery, Musculoskeletal System Diseases, Physical Medicine and

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	Rehabilitation, Cutaneous and Sexually Transmitted Diseases, Occupational Medicine
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ORDINARY SESSION

N. 8 ordinary positions	In detail: n. 6 with scholarship financed by the University n. 2 without scholarship
N. 2 positions only for students with a degree obtained abroad	With scholarship financed by the University

PH.D. COURSE OF BIOMEDICAL SCIENCES

Coordinator Prof. Andrea Giacometti

Scientific areas:	BIO/10, BIO/13, BIO/14, MED/01, MED/08, MED/11, MED/17, MED/28, MED/38, MED/40, MED/41, MED/43, MED/10
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Method of Selection	Examination based on qualifications: maximum score 20/100 Interview: maximum score 80/100
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Interview schedule	Ordinary session: 6th July, 2018, at 11.00 a.m. at the Hall P Polo Murri - Faculty of Medicine and Surgery – Via Tronto – Torrette di Ancona
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Examination topics:	Applied Physics, Biochemistry, Applied Biology, Pharmacology, Medical Statistics, Microbiology and Clinical Microbiology, Pathological Anatomy, Respiratory System Diseases, Cardiovascular Diseases, Infectious Diseases, Pediatrics Surgery and Child Health, Urology, Odontostomatological Diseases, Otolaryngology, Diagnostic Imaging and Radiotherapy, Neuroradiology, General and Specialized Pediatrics, Gynecology and Obstetrics, Anaesthesiology, General and Applied Hygiene, Forensic Medicine, Physiology, General Pathology
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ORDINARY SESSION

N. 9 ordinary positions	In detail: n. 5 with scholarship financed by the University n. 2 with scholarship financed through the Development Projects by excellence department Scienze Biomediche e Sanità Pubblica n. 2 scholarship without scholarship
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N. 1 position only for students with a degree obtained abroad	With scholarship financed by the University
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UNIVERSITA' POLITECNICA DELLE MARCHE



PH.D. COURSE OF LIFE AND ENVIRONMENTAL SCIENCES

with the following curricula:

- 1) MARINE BIOLOGY AND ECOLOGY
- 2) BIOMOLECULAR SCIENCES
- 3) CIVIL AND ENVIRONMENTAL PROTECTION

Coordinator Prof.ssa Oliana Carnevali

Scientific areas:	FIS/07, CHIM/01, CHIM/06, GEO/01, BIO/01, BIO/04, BIO/05, BIO/06, BIO/07, BIO/10, BIO/11, BIO/13, BIO/18, BIO/19, MED/07, AGR/16, ING-IND/11, ING-IND/26, IUS/14, GEO/12, M-GGR/01, CHIM/03
Method of selection	Examination based on qualifications: maximum score 20/100 Interview: maximum score 80/100
Interview schedule	Ordinary session: 10th July, 2018, at 9.30 a.m. at the Hall Azzurra – Polo Montedago - via Brecce Bianche – Ancona
Examination topics:	Curriculum "Marine Biology and Ecology": Marine Chemistry, Marine Biology and Ecology, Aquaculture Curriculum "Civil and Environmental Protection": Stratigraphy and Paleoceanography, Anthropogenic Pressures and Marine Biodiversity Curriculum "Biomolecular Sciences": Molecular Biology, Applied Microbiology
N. 8 ordinary positions	In detail: n. 6 with scholarship financed by the University n. 2 without scholarship
N. 2 positions only for students with a degree obtained abroad	In detail: n. 1 with scholarship financed by the University n. 1 with scholarship financed through the Development Projects by excellence department DISVA