

ELECTIVE SUBJECTS

Choose at least 6 ECTS by taking either one subject worth 6 or more ECTS, or two subjects that add up to at least 6 ECTS.

Elective	PhD Programme	ULisboa School	ECTS
Adaptation and Mitigation of Climate Change	Climate Change and Sustainable Development Policies	Various	5
Sustainability Advanced Studies	Various	FC	6
Advanced Topics in Artificial Intelligence	Cognitive Science	FC	6
Advanced Topics in Multivariate Analysis	Statistics and Stochastic Processes	IST	6
Advanced Topics in Stochastic Processes	Statistics and Stochastic Processes	IST	6
Advanced Topics in Water Resources and Environment	Civil Engineering	IST	6
Agriculture and Food Security for Development	Agricultural Innovation in Tropical Food Chains	ISA	3
Architecture of Dwelling	Architecture/Design/Urbanism	FA	10
Architecture and the City	Architecture/Design/Urbanism	FA	10
Artificial Intelligence Applied to Building and City Efficiency	Architecture/Design/Urbanism	FA	10
Big Data	Informatics	FC	6
Biodiversity and Ecosystem Services	Sustainability Science	RUL	6
Biodiversity and Global Change	Biology and Ecology of Global Changes	FC	6
Climate Change Science	Climate Change and Sustainable Development Policies	FC	5
Clinical Research and Transversal Areas to Science	Lisbon Academic Medical Centre	FM	3
Chronic Noncommunicable Diseases and Planetary Health	Lisbon Academic Medical Centre	FM	3
Data and research methods in Population Sciences	Population Sciences	Various	6
Decision Analysis Models and Applications	Engineering and Management	IST	6
Demography: population measures and dynamics	Population Sciences	Various	9
Design and Writing a Research Project	Transversal Skills, All PhD programs	IST	3
Design for Social Innovation	Architecture/Design/Urbanism	FA	10
Design Thinking Approach to Research	Transversal Skills, All PhD programs	IST	3
Earth Systems	Climate Change and Sustainable Development Policies	IST	5
Ecological Economics	Sustainable Energy Systems	IST	6
Economics and Strategy - Theory and Applications	Engineering and Management	IST	6
Electrochemical Energy Storage and Conversion Systems	Sustainable Energy Systems	FC	6
Energy, Environment and Sustainability	Sustainable Energy Systems	IST	6

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Engineering for Sustainable Development	Transversal Skills, All PhD programs	IST	3
Entrepreneurship, Innovation and Technology Transfer	Various	FC	6
Functioning and Monitoring of River Systems	Sustainable Land Use	ISA	6
Habitat 21	Architecture/Design/Urbanism	FA	10
Health Care Systems and Services Research	Engineering and Management	IST	6
Human-Centred Design	Architecture/Design/Urbanism	FA	10
Human Health in a Changing Climate	Lisbon Academic Medical Centre	FM	3
Integrated Biorefineries: Biofuels, Biopower and Bioproducts	Sustainable Energy Systems	FC	6
Integrated Resources Management	Agricultural Innovation in Tropical Food Chains	ISA	3
Methods and Applications in Earth Sciences and Environment	Energy and Earth Resources	IST	6
Models and Applications in Operations, Logistics & Supply Chain Management	Engineering and Management	IST	6
One Health		FMV	3
Optimization and Applications	Engineering and Management	IST	6
Radiation Protection and Dosimetry	Engineering and Nuclear Sciences	IST	6
Radiation and Health Sciences	Engineering and Nuclear Sciences	IST	6
Risk Analysis Applied to “One Health”		FMV	3
Seminars in Energy and Earth Resources	Energy and Earth Resources	IST	6
Spatial Data Sciences	Energy and Earth Resources	IST	6
Sustainable Mobility	Sustainable Energy Systems	FC	6
Theory and Practice of Policy Analysis	Engineering and Public Policy	IST	6
Tropical Farming Systems Optimisation	Agricultural Innovation in Tropical Food Chains	ISA	3
Urban and Regional Systems and Sustainability	Civil Engineering	IST	6
Land Use and Water Management	Sustainable Land Use	ISA	6

FA, Faculty of Architecture; FC, Faculty of Sciences; FM, Faculty of Medicine; FMV, Faculty of veterinary Medicine; IST, Instituto Superior Técnico; ISA, Instituto Superior de Agronomia (School of Agriculture); RUL, Rectorate University of Lisbon