Sant'Anna
Scuola Universitaria Superiore Pisa

Ph.D. in Management Innovation, Sustainability and Healthcare - Teaching Activities 39 Cycle a.y. 2023-2024

Title of the course	Lecturer	Semester	Brief description	Hours	Mandatory/Optional
Applied statistics for social science (module 1)	C. Seghieri	I	The course intends to provide a systematic introduction to quantitative approaches to data collection and analysis in the social sciences. Emphasis will be placed on the development of statistical concepts and statistical computing skills, rather than mathematical details. An introduction to Stata, software for statistical analysis is also provided along the course. Students will have the opportunity to develop a critical understanding of the use of statistics in contemporary social science.	22	Mandatory
Applied statistics for social science (module 2)	C. Seghieri	I	Requirements of a Good Sample: Selection Bias - Measurement Error - Questionnaire Design - Sampling and non-sampling error Simple probability samples: Types of Probability Samples - Framework for Probability Sampling - Simple Random Sampling -Sampling Weights - Confidence Intervals - Sample Size Estimation - Systematic Sampling - Randomization Theory Results for Simple Random Sampling - A Prediction Approach for Simple Random Sampling - When Should a Simple Random Sample Be Used?.	12	Mandatory
Surviving Research methodologies in management	A. Di Minin, A. Murante, F. Testa , N. Bellè	I	The course aims at providing PhD students with knowledge and tools about the main research methodologies that they need to approach during the PhD program in Management and their research activities. In particular, students will be make autonomous in the formulation of research questions, and in the design and conduction of literature reviews, surveys, and case study design. The course is structured in five modules. Each module gives an introduction to the topic, a critical review of a relevant paper, and the presentation of a guest lecturer who will take us "behind the scenes". Quantitative Research: a synthetic overview of quantitative approaches available to address and answer to a research question. This lecture aims at increasing the students' awareness about the possible quantitative methods to adopt for their own research projects.	58	Mandatory

Course	Lecturer	Semester	Description	Hours	Type
Management Theories	T. Daddi	I	The course aims at providing PhD students with the basic knowledge about the most important management theories. Some of our students do not come from a management background. Others come from an economics and management background, but nonetheless they might have an insufficient awareness of the contents and evolution of the most relevant management theories. This is why it is important that this course fills such a knowledge gap.	34	Mandatory
Scientific English for Researchers in Management	A. Wallwork	I	Writing and presentation skills are NOT taught in separate courses. Instead, they are integrated into one course in order to create more dynamic lessons. The course teaches not only how to write and present a scientific article, but how to communicate effectively with editors and colleagues. These skills are applicable in any language and in any situation. Students are encouraged to form a working network outside the lessons in order to practise oral presentations as well as to discuss ideas in the academic / scientific field.	20	Mandatory
How to design a research proposal to compete for an international funding programme	F. Iraldo T. Daddi	II	The aim of the course is to provide the basic concepts and techniques to understand how draft, submit, manage and evaluate a project proposal. The course is structured in three main parts: a first initial part aimed to discuss the key steps of European project Life Cycle Management, a central part aimed to provide the key features and requirements of three main EU funding programs, the last part aimed to increase the knowledge of the students about the next EU funding period 2021-2027 with a particular focus on Horizon Europe programme. The course will adopt a practical approach, providing real examples of project drafting, involving the students in some exercise to apply the concepts and approaches discussed during the class	14	Mandatory
Working with Stata	valutazione comparativa	II	The course will focus on the: Model specification: continuous and categorical predictors, statistical inference on predicted mean outcome and its changes (mean differences) conditionally on predictors. Univariate and multivariate Wald-type test of hypothesis. Multiplicative model for binary outcome: continuous and categorical predictors, statistical inference on predicted outcome probability and its changes (odds ratios, risk ratios) conditionally on predictors. Univariate and multivariate likelihood ratio test of hypothesis.	30	Mandatory
Sustainability Management	M. Frey; F. Iraldo	II	The course is designed to introduce PhD students to the fundamental skills and tools regarding sustainability management in general and its effect on environmental and competitive performance in particular. The aim of the course is to present different and multidisciplinary approaches that can be applied to investigate this topic. Management students will benefit from knowing the scientific literature and from analyzing some practical implications. The course will include some "traditional" one-way teaching but will be mostly based on students' presentations and case study analysis	38	Mandatory

Course	Instructor	Semester	Description	Hours	Type
Performance management in health care	S. Nuti M. Vainieri	II	The course "Performance management in health care" aims at providing PhD students with the fundamental components of health care management. In particular, the course will introduce students with the main features of the health care systems (the mission, the actors and their relationships), then it will introduce the PhD students to the measurement of the performance in healthcare. The students will be then led to think about how to move from performance measurement to performance evaluation and from performance evaluation to the management of the performance. The course is arranged mixing lectures with project works and case studies.	30	Mandatory
Economics and management of innovation	A. Piccaluga	II	The objective of this course is to introduce PhD students to the most relevant topics and methodologies characterizing current research on economics and management of innovation, and to help them refining their capacity to promote independent research projects. The topics proposed in the course are relevant to a variety of research fields (including sustainability and healthcare management) and cover both theoretical concepts and managerial implications	20	Mandatory
Surviving Research Methodologies II	S. Barsanti, F. Corsini, N. Todaro	II	The course aims at providing PhD students with knowledge and tools about the main research methodologies that they need to approach during the PhD program in Management and their research activities. In particular, students will be make autonomous in the formulation of research questions, and in the design and conduction of literature reviews, surveys, and case study design.	12	Mandatory
High-Tech Entrepreneurship (HTE) Basic	A. Piccaluga A. Di Minin	II	This course is designed to introduce participants, mainly PhD students from different disciplines (STEM, but also Social Sciences and Humanities) and also young researchers and post-docs, to the basic knowledge and competences about high-tech entrepreneurship. More precisely, the course will provide participants with the basic understanding of the role, analytics and process of business planning that lead to the creation of new innovative business ventures, especially regarding those which are generated within an academic environment, on the basis of public research.	10	Mandatory
Optional II semester					
Social marketing	A. Murante	II	The course aims at providing PhD students with the fundamental components of health management and their impact on performance. The course is arranged mixing lectures with project works and case studies. Lectures will include theoretical issues, the recent development in health service research.	10	Optional

Course	Lecturer	Semester	Description	Hours	Type
Sustainable finance: natural capital, climate change and business	R. Barontini	II	Il Corso prende in esame le decisioni di investimento e di finanziamento nella prospettiva della transizione ecologica e della crescita sostenibile. La prima parte del corso analizza il ruolo delle istituzioni finanziarie nell'incentivare e sostenere le imprese nel raggiungimento degli obiettivi climatici definiti con l'accordo di Parigi. In particolare, si analizzano i prodotti finanziari disegnati per agevolare la "transizione verde", come i green bond e il meccanismo di scambio di emissioni, le metodologie di allineamento dei portafogli finanziari e la disclosure dei rischi e delle opportunità legate al cambiamento climatico.	20	Optional
Bridging Innovation & Sustainability	E. Annunziata	II	The aim of this course is to introduce PhD students to a set of relevant topics at the intersection between innovation management and sustainability management. The course provides knowledge of the main theoretical concepts applied by the two fields and highlights their interplay in recent empirical literature. Classes will be organized with an initial broad introduction of the topic and a further in-depth discussion of one (or a few) paper(s) related to the topic. The discussion will imply the active participation of PhD students, that are expected to join the class after reading the suggested papers.	12	Optional
Optional III semester					
Dinamica economico finanziaria per finalità gestionali (course held in italian)	S. Nuti M. Vainieri	III	The primary objective of this course is to familiarize Ph.D. students with the use of randomized controlled trials (RCTs) to lend both positive and normative insights into contemporary management research. By the end of the course, students will be able to: • Recognize all the primary experimental designs; • Analyze and evaluate experimental studies from the management literature and from the broader social sciences; • Design their own experimental studies.	30	Optional
Performance theories	L. Cinquini	III	The course addresses the issue of performance in organizations from multiple perspectives, by discussing the conceptual references and theoretical models that underlie the design and implementation of performance measurement systems in different contexts of public and private organizations. Frameworks are discussed for understanding the meaning of performance in contemporary organizations and the issues of the dominant hierarchical approaches in performance measurement systems.	24	Optional
Advanced sustainability – Environmental Management Systems and certifications: From theory to practice	T. Daddi	III	Following the course on sustainability management that has provided an academic perspective to that topic, this course, as advanced approach, aims to make a focus on Environmental Management Systems (EMSs) in order to understand how them are integrated in the more general management system of an organisation. The topics of the course will approach the EMSs from different perspectives	12	Optional

Advanced sustainability - Life-cycle assessment and environmental footprint: From theory to pratice	F. Iraldo	III	Life Cycle Thinking is a course focused on the life-cycle impact of processes and products from cradle-to-grave. There continues to be an increase in global pressure on manufacturers to understand their supply chain and be held accountable for their environmental footprint. Industries are starting to understand that setting environmental goals will not only reduce their overall impact, but also result in a significant cost savings. However, the first step in making improvements is understanding the process and/or product's environmental baseline.	24	Optional