NEWS

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STARTING COURSES – PHD SCHOOL

COMMUNICATION STRATEGIES THAT SCORE IN WORLDWIDE ACADEMIA
Prof. Conci Claudio

To gain surprisingly efficient strategies for globally successful communication: Discover the unwritten rules of global English in academia; Avoid misunderstandings in international co-operations right from the start; Win resources for mutual goals and success.

From 15 to 19 January 2024

INTRODUCTION TO ACADEMIC RESEARCH
Prof. Volonte' Paolo Gaetano

This course aims at offering to Ph.D. students awareness of the social and institutional framework of doing research, with particular focus on research for planning, design and techno-scientific disciplines. It provides a comprehensive and reflexive introduction to academic research and academic life.

From 9 to 31 January 2024

PROFESSIONAL COMMUNICATION
Prof. Di Blas Nicoletta

The goal is to enhance students' communication skills in public speaking and written communication (special emphasis on project proposals and scientific papers writing). A quote by MIT communication instructors summarizes the goal: "engineers who don't write [=communicate] well end up working for engineers who do write well".

From 9 to 30 January 2024

PROJECT MANAGEMENT (IN ACTION)
Prof. Mancini Mauro

The course aims at introducing the students in the characteristics of project-based operations and offering them the opportunity to take confidence on the tools and techniques for the planning and control of projects starting from their application in the academic and professional experience of the students. Multiple sectors will be specifically addressed as Oil and Gas, civil and Services - in order to share practical techniques to manage small, large and mega projects.

From 22 to 26 January 2024

RESEARCH SKILLS
Prof. Biscari Paolo

The Goal of this programme is to offer a wide range of courses that may help PhD Students to build up their knowledge in research fields with regards to the following aspects: - communication - management - cross cutting knowledge - soft skills

From 11 January to 9 April 2024

SCIENCE DIPLOMACY FOR RESEARCHERS. FILLING THE GAP BETWEEN SCIENCE AND POLICY WITHIN THE GLOBAL CHALLENGES
Prof. Colombo Emanuela

In the current global context characterized by complex and unpredictable challenges there is a renovated interest in the role of academic education and scientific research, since they can generate innovation and high-level knowledge to support both immediate choices and long term strategies to address major global challenges and respond to the shared needs of sustainable and equitable development (concerning energy security, agriculture and food security , global and one-health, climate change, and geopolitical crises, to mention a few) This is the essence of science diplomacy, defined as the use of scientific, technological, and academic collaborations among countries, regions and societies to address common challenges and to build effective international partnerships. Science diplomacy is an important new area of research and practice that recognizes diplomacy as an avoidable asset of international cooperation and science as the essential driver to support evidence based policymaking with special reference to global challenges. Science diplomacy can have different perspectives but within the frame of a research institution focus on technological aspects (like Politecnico di Milano) it will be basically analysed for two of them 1. Science for Diplomacy: building new paradigms for scientific cooperation in research and innovation to support foreign policy and international relations. 2. Science in Diplomacy: delivering evidence-based research results to inform the process of policy making within the framework of the social and global challenges. The aim of a PhD course lies in developing and testing new ways of incorporating negotiation and policy advisory skill-building into advanced doctoral study. The PhD course will provide students with the practical policy brief writing skills (one of the main tools of EBPM), as well as negotiation and diplomacy skills, They will also acquire knowledge on existing international institutions and mechanisms of Science Advisory, being in the role of Scientific Advisor (facilitated by their STEM preparation) through the PW, based on Model of EU SAM (Science Advisory Mechanism), preparing them to navigate in existing Science Diplomacy mechanisms and take active part in multilateral diplomacy (es. COP-27), where non-state actors have been lately playing an increasingly important role.

From 15 to 19 January 2024

SULLA RESPONSABILITÀ DELLA TECNICA
Prof. Ossi Paolo Maria

Ogni studente prende parte attiva all'analisi critica delle argomentazioni filosofiche presentate nelle lezioni. Nella parte conclusiva del corso si affronta un Seminario tematico su un tema suggerito dagli studenti, analizzando, a partire da una selezione di testi, le modalità con cui la tecnologia incide sull'organizzazione della vita civile, con particolare attenzione ai quesiti etici determinati da tale impatto.

From 8 January to 16 February 2024

SUSTAINABILITY METRICS, LIFE CYCLE ASSESSMENT AND ENVIRONMENTAL FOOTPRINT
Prof. Lavagna Monica

The objective of the course is to introduce to the use of environmental sustainability metrics as tools that measure the benefits achieved through a sustainability strategy, leading to informed environmental decisions. The course will explain in detail the LCA methodology, with examples and exercises.

From 22 January to 1 February 2024

STARTING COURSES – DOCTORAL PROGRAMMES

PHD IN *MECHANICAL ENGINEERING*

AI APPLICATIONS TO INDUSTRIAL ROBOTICS
Prof. Francesco Braghin

This PhD course aims to highlighting interesting contributions in the development of intelligent manipulators in the industrial robotics context.

From 8th January 2024

ARTIFICIAL INTELLIGENCE IN DECISION MAKING AND CONTROL OF INDUSTRIAL APPLICATIONS
Prof. Andrea Matta

The course is meant to teach students to use the right combination of classical and AI-based tools to solve real-life decision and control problems in smart industrial applications.

From 9th January 2024

SMART MATERIALS BASED ON METALLIC AND CERAMIC SYSTEMS
Prof. Riccardo Casati

The objective of the course is to provide a survey about the main groups of materials with special functional properties, classified as smart materials.

From 12th January 2024

INTEGRATED EXPERIMENTAL AND COMPUTATIONAL APPROACHES TO THE DIAGNOSTICS OF STRUCTURES AND COMPONENTS
Prof. Emanuele Zappa

The aim of this course is to provide integrated experimental and computational approaches to the diagnostics of structures and components.

From 22nd January 2024

AUTOMATA FOR INDUSTRIAL SYSTEMS: MODELLING, VERIFICATION AND LEARNING
Prof. Matteo Giovanni Rossi

This course will present the basic concepts of a variety of automata-based formalisms that are used in practice, from basic ones (Finite State Automata), to more advanced.

From 29th January 2024