

List of available courses

Architecture (Conservation)

Master's Degree - Taught in English - Duration (Years): 2

A.Y. 2020-2021

[NON-EU Students] Applications open from 28/11/2019 to 15/06/2020

[EU Students] Applications open from 28/11/2019 to 15/09/2020

The Masters Degree's revolves around the themes linked to interventions on the existing architectural and environmental heritage. The specific objective of the Masters Degree is the achievement of a peculiar sensibility and ability related to the modalities of intervention on pre-existing architectural and environmental heritage, and to the quality design of new architecture, taking into account the relationships with the pre-existent and the historical city. The Master's Degree builds up on the skills acquired in the Undergraduate Degree, enhancing them to a specialist's level, with particular reference to:

- a) the historical-critical analysis of architecture, in its broadest sense (from the single manufacture to landscape and environment);
- b) the ability to plan and execute, both with reference to modern architectural production and to the conservation and recovery of pre-existing structures;
- c) specific scientific knowledge, acquired critically.

Programme's website:

<https://sites.google.com/uniroma1.it/architectureconservation/home>

<https://corsidilaurea.uniroma1.it/en/corso/2019/29846/home>

More info:

architectureconservation@uniroma1.it

Artificial Intelligence and Robotics

Master's Degree - Taught in English - Duration (Years): 2

A.Y. 2020-2021

[NON-EU Students] Applications open from 28/11/2019 to 15/04/2020

[EU Students] Applications open from 28/11/2019 to 15/09/2020

The aim of the Master in Artificial Intelligence and Robotics is offering students the ability to interact with professional workers in Computer Science, Artificial Intelligence, Robotics, Mechanical, Electronics and Control Engineering and with professional users of the involved application areas such as the ones which need the representation and the use of knowledge or sensorial information, automatic machine learning, real time planning, industrial robotics and services, video and pictures detection and simulation and human-computer interaction.

Career opportunities: 1. Design and realization of robotic systems for service and industrial applications, specifically for security, space, home, elderly people, medicine; 2. Design and realization of intelligent systems as knowledge management systems and big data extractions, graphic systems and animation, for cinema and videogames industries, video surveillance systems and video systems for assuring the quality of products and services.

More info:

admissions@diag.uniroma1.it

Atmospheric Science and Technology

Master's Degree - Taught in English - Duration (Years): 2

A.Y. 2020-2021

[NON-EU Students] Applications open from 28/11/2019 to 15/06/2020

[EU Students] Applications open from 28/11/2019 to 15/09/2020

LMAST is a Master of Science (MSc) degree in the Physics class (LM-17), organized as an international inter-university programme, jointly proposed by the Sapienza University of Rome and University of L'Aquila. The unique feature of LMAST programme is to educate master students with solid knowledge and specific skills in the domain of atmospheric science from a physics and an engineering perspective. LMAST includes fundamentals of fluid mechanics, meteorology, electromagnetics and statistical mechanics as well as satellite Earth observation, radar meteorology, atmospheric remote sensing, dynamical meteorology and climatic modelling, environmental meteorology and monitoring. LMAST emphasizes system-related and interdisciplinary aspects aiming at forming experts in the fields of research, educational, professional and industrial careers. The LMAST graduate can obtain the Statement of learning curriculum conformity to the World Meteorological Organization (WMO) Recommendation BIP-M 1083.

More info:

lmast.univaqsapienza@uniroma1.it

Business Management

Master's Degree - Taught in English - Duration (Years): 2

A.Y. 2020-2021

[NON-EU Students] Applications open from 28/11/2019 to 30/04/2020

[EU Students] Applications open from 28/11/2019 to 30/09/2020

The Degree Programme (CdS) in Business Management (class LM-77) aims to provide students with the advanced knowledge and skills in management and entrepreneurship needed for effectively addressing problems of firms in a fast-changing society. The Study Plan is structured as follows: Curriculum Business Management (taught in English) Double Degree - La Sapienza Università di Roma - SRH Hochschule Berlin - Northern Illinois University – Dekalb Moscow State Institute of International Relations (MGIMO) - North-Caucasus Federal University (NCFU) - Institute of Economics and Management - Stavropol Curriculum Marketing Curriculum General Management and Sustainability

More info:

internationalstudents-eco@uniroma1.it

Chemical Engineering

Master's Degree - Taught in English - Duration (Years): 2

A.Y. 2020-2021

[NON-EU Students] Applications open from 28/11/2019 to 15/03/2020

[EU Students] Applications open from 28/11/2019 to 31/07/2020

The curriculum "Chemical Engineering for Innovative Processes & Products" of the MSc in Chemical Engineering provides the student with a solid preparation and specialized knowledge in the fundamental theoretical and industrial aspects of chemical processes and operations and of materials technology. The particular focus is on micro/nano-scale aspects and on reduced environmental impact in the different application areas of (i) design, management and control of innovative industrial processes and plants; (ii) design and management of industrial processes for the sustainable production and processing of traditional and innovative materials; (iii) management of pollution prevention, environmental protection, and safety in process plants where substances are handled or produced.

More info:

master.chemicalengineering@uniroma1.it

Clinical Psychosexology

Master's Degree - Taught in English - Duration (Years): 2

A.Y. 2020-2021

[NON-EU Students] Applications open from 28/11/2019 to 15/06/2020

[EU Students] Applications open from 28/11/2019 to 31/07/2020

The master's degree course, in short, has the task to train, for the first time in the Italian university system, clinical psychologists and sexologists. The graduated student, in particular, will have specific competences in managing the individual, the dyad, the family, up to the social and cultural macro area. The Master Degree in Clinical Psychosexology includes various areas such as: research, evaluation, diagnosis and intervention to which psychological and medical disciplines such as psycho-sexology, dynamic psychology, clinical psychology, evolutionary psychopathology contribute theoretically and methodologically, medical sexology, forensic psychology and the history and sociology of sexual mores

More info:

clinical.psychosexology@uniroma1.it

Cognitive Neuroscience

Master's Degree - Taught in English - Duration (Years): 2

A.Y. 2020-2021

[NON-EU Students] Applications open from 04/12/2019 to 15/05/2020

[EU Students] Applications open from 04/12/2019 to 17/07/2020

The master in Cognitive Neuroscience is particularly suited to students interested in understanding the neural correlates of the cognitive processes as well as the relationship between the development of the mind and the brain. The aim is to train students with a psychology major (BA) with the perspectives from cognitive neuroscience, cognitive psychology and developmental neuroscience as well as hands-on training in imaging methods. The course trains students to carry out research in cognitive neuroscience offering high-level teaching, large space to practical supervised activity in didactic and professional labs and the possibility to carry out an experimental thesis at the research labs of our Department and in partner institutions. The master features twelve courses that offer a high level of specific preparation (90 ECTS) and practical training activities for a total of 120 ECTS. The Master course is open to a maximum of 40 students per year.

More info:

cognitivenueroscience.lm51@uniroma1.it

Computer Science

Master's Degree - Taught in English - Duration (Years): 2

A.Y. 2020-2021

[NON-EU Students] Applications open from 28/11/2019 to 30/04/2020

[EU Students] Applications open from 28/11/2019 to 01/09/2020

Our Master program in Computer Science (LM-18) is conceived to provide both a broad grounding in Computer Science and in-depth knowledge of a number of emerging application areas. All courses are taught in English. Students can choose one of four curricula: INFORMATION SCIENCE AND APPLICATIONS providing students with a strong foundation in general Computer Science. MULTIMEDIA COMPUTING AND INTERACTION providing students with knowledge of the fundamentals, methodologies and techniques for processing and interacting with multimedia content, i.e. graphics, text, audio and video material. NETWORKS AND SECURITY aimed at preparing future innovators and researchers in systems, networking, cryptography, and security. SOFTWARE ENGINEERING introducing students to adequate methodologies for the design and analysis of complex and critical software systems.

More info:

computerscience.lm18@uniroma1.it

info-computer-science-degrees@di.uniroma1.it

Control Engineering

Master's Degree - Taught in English - Duration (Years): 2

A.Y. 2020-2021

[NON-EU Students] Applications open from 28/11/2019 to 15/04/2020

[EU Students] Applications open from 28/11/2019 to 15/09/2020

The Master in Control Engineering introduces the student to the basic methodologies of Automatic Control such as: - modeling and identification of dynamic systems; - measurement processing and on-line filtering of sensor data; - use of feedback to stabilize the behavior of a process and optimize its performance; - integrated design of automatic control systems. These methods are pervasive in various engineering fields and necessary in dealing with advanced applications in industrial and service automation. The master-level formation is based on a general approach to the analysis and design of complex automatic control systems and teaches the technical know-how for implementing such automatic systems, keeping into account the nature of the target applications. It provides the tools for describing and understanding the main issues in engineering problems, develops the capacities for designing and running automatic systems and processes, and enhances the skills in scientific innovation.

More info:

admissions@diag.uniroma1.it

Data Science

Master's Degree - Taught in English - Duration (Years): 2

A.Y. 2020-2021

[NON-EU Students] Applications open from 28/11/2019 to 30/04/2020

[EU Students] Applications open from 28/11/2019 to 10/09/2020

The remarkable increase in the volume and complexity of available data and new technologies that have been developed to process them requires a combined multi-disciplinary approach to design an overall strategy aimed at transforming data into useful information. Key ingredients to develop a successful strategy are data manipulation and visualization, large scale computing, statistical modelling, learning techniques, algorithmic thinking. Laurea Magistrale in Data Science is a joint i3S Faculty initiative combining the expertise of four Departments:

- Department of Computer Science (DI)
- Department of Computer, Control and Management Engineering (DIAG)
- Information Engineering, Electronics and Telecommunications (DIET)
- Statistics (DSS)

This Master's program provides a solid and modern preparation to understand and manage the multi-facet aspects of carrying out a complete data analysis, including acquisition, management, and statistical analysis.

More info:

admissiondatascience@diag.uniroma1.it

Development and International Cooperation Sciences - Economics for Development

Master's Degree - Taught in English - Duration (Years): 2

A.Y. 2020-2021

[NON-EU Students] Applications open from 02/12/2019 to 30/04/2020

[EU Students] Applications open from 02/12/2019 to 06/09/2020

The interfaculty MSc programme in Development and International Cooperation provides students with the competences necessary to analyze institutional and cultural factors and to plan and manage cooperation initiatives to aid developing countries.

The programme, which has been developed by the Faculties of Political Science, Sociology, Communications, and Humanities, provides students with interdisciplinary knowledge and the tools necessary to analyse and comprehend the context they will find in developing countries, as well as to

manage peace projects and international development cooperation programs.

The programme also provides students with advanced skills that will allow them to:

- Design, develop, implement and direct integrated cooperation programmes and development projects;
- Monitor and assess projects and programmes;
- Use communication and information management tools

More info:

internationalstudentscoris@uniroma1.it

magistralicoris@uniroma1.it

Economics

Master's Degree - Taught in English - Duration (Years): 2

A.Y. 2020-2021

[NON-EU Students] Applications open from 28/11/2019 to 30/04/2020

[EU Students] Applications open from 28/11/2019 to 30/04/2020

The Master of Science Program in Economics at Sapienza University of Rome provides students with a sound knowledge of economic analysis and quantitative methods for economics. Graduates will be able to interpret the economic mechanisms and understand the behavior and the decision process of economic agents and financial institutions. They will also develop the ability to analyze the functioning of markets and forecast the future evolution of economic and financial variables. Interdisciplinarity and the international orientation of the Program are indeed among its strengths. As for the work opportunities, they are largely focused on jobs with a strong emphasis on economic and financial analysis. Typically, career opportunities for our graduates in Economics are available at policy institutions, international organizations, financial and non-financial corporations, consulting firms, research centers and regulatory authorities.

More info:

internationalstudents-eco@uniroma1.it

epos@uniroma1.it

Economics and Communication for Management and Innovation

Master's Degree - Taught in English - Duration (Years): 2

A.Y. 2020-2021

[NON-EU Students] Applications open from 28/11/2019 to 15/06/2020

[EU Students] Applications open from 28/11/2019 to 15/09/2020

Economics and communication for management and innovation is a multi-disciplinary programme specifically based on the needs of enterprises and Confindustria, the main Italian Association of Entrepreneurs. The programme is based on enterprise science, digital communications and applied computer science. The objective is to train professionals who will be able to meet the multi-disciplinary requirements of modern enterprise, extending the traditional curricula of single-faculty programmes and moulding economics, computer science and social sciences. The programme will provide students with skills in enterprise communications, innovation process management skills, and enterprise strategies and tools for innovative and international contexts.

More info:

ecomi.lm77@uniroma1.it

internationalstudents-eco@uniroma1.it

Electronics Engineering

Master's Degree - Taught in English - Duration (Years): 2

A.Y. 2020-2021

[NON-EU Students] Applications open from 28/11/2019 to 15/06/2020

[EU Students] Applications open from 28/11/2019 to 15/09/2020

The Master Degree in Electronics Engineering Programme (class LM-29) provides students with specific skills related to electronic digital systems, integrated components, microwave circuits, radiofrequency systems and advanced communications together with multidisciplinary laboratory competences and mathematical advanced topics. A set of subjects going from discrete circuits to machine learning, from advanced antennas to electromagnetic scattering, from circuit design to embedded systems, from nanoelectronics to power electronics, from optoelectronics to lasers and accelerators, from environmental electronics to Earth observation, from bioengineering to wireless communication systems can complete the MDEE. External stages for carrying out the master thesis are also foreseen. The programme emphasises system-related and interdisciplinary aspects and is closely linked with research and innovation activities in the Italian and international job-market context.

More info:

ingegneria_elettronica.lm29@uniroma1.it

Energy Engineering

Master's Degree - Taught in English - Duration (Years): 2

A.Y. 2020-2021

[NON-EU Students] Applications open from 28/11/2019 to 01/05/2020

[EU Students] Applications open from 28/11/2019 to 15/09/2020

The Masters Degree in Energy Engineering aims providing a specific education on techniques and systems involved in energy generation and conversion. Specifically, arguments related to technological solutions, conversion, safety, management and control of plants powered by fossil fuel, renewable energy sources and nuclear sources.

More info:

monica.fiorini@uniroma1.it

Engineering in Computer Science

Master's Degree - Taught in English - Duration (Years): 2

A.Y. 2020-2021

[NON-EU Students] Applications open from 28/11/2019 to 15/04/2020

[EU Students] Applications open from 28/11/2019 to 15/09/2020

The aim of the course is to train Computer Engineers with specific expertise both in the sector of Computer Science, focusing on software applications, and in the sectors of information processing systems and security, assessment of system performance, and optimization of information processing and network systems. The course prepares students for the following jobs:

- Software analysts and engineers, able to design, develop, modify and optimize software applications based on the needs of final users; analyse data processing problems for different computing needs and develop, identify and optimize information processing systems; design, integrate and verify software employed in web applications.
- Engineers for the planning and management of systems and networks: these professionals identify and optimize ad-hoc information management systems; plan and implement security measures for information systems to regulate data access and prevent unauthorized data access.

More info:

admissions@diag.uniroma1.it

European Studies

Master's Degree - Taught in English - Duration (Years): 2

A.Y. 2020-2021

[NON-EU Students] Applications open from 28/11/2019 to 15/06/2020

[EU Students] Applications open from 28/11/2019 to 15/09/2020

The MSc in European Studies aims to train high-profile professionals who will work in the increasingly global international economical and juridical context that is being driven by the development of European integration. The programme provides students with advanced knowledge and skills concerning the methodologies, cultural aspects and professional requirements that will enable them to develop original solutions to the juridical, economic, social and historical issues that are emerging on the new European and international scenarios. The European Affairs Masters Programme provides students with two different curricula: "EU Law and Economics" and "Comparative and European Law."

More info:

europeanstudies.sapienza@uniroma1.it

Finance and Insurance

Master's Degree - Taught in English - Duration (Years): 2

A.Y. 2020-2021

[NON-EU Students] Applications open from 04/12/2019 to 30/04/2020

[EU Students] Applications open from 04/12/2019 to 01/09/2020

The Financial Risk and Data Analysis curriculum (entirely taught in English) of the Masters programme in Finance and Insurance aims at providing students with a wide range of advanced quantitative and programming tools together with technical instruments and a sound knowledge of the complex regulatory system which governs the financial markets. Students will acquire the knowledge and capabilities needed to analyze financial data and to use them to measure and manage risk, to make forecasts, and to build models in order to address most of the technical challenges faced by companies and institutions in the finance and insurance industry, and also in other environments. Graduates will have the skills required for a successful career in financial institutions or major corporations or to enter a PhD programme in Finance.

More info:

internationalstudents-eco@uniroma1.it

Genetics and Molecular Biology

Master's Degree - Taught in English - Duration (Years): 2

A.Y. 2020-2021

[NON-EU Students] Applications open from 28/11/2019 to 15/06/2020

[EU Students] Applications open from 28/11/2019 to 07/09/2020

- 1) an in-depth knowledge of the unicellular and multicellular organisms that may be used as models to study basic mechanisms of gene expression or cell development, differentiation and transformation
- 2) the acquisition of genetic concepts and methodologies, with special regard to those used in the genetic dissection of complex processes and to study human populations
- 3) an in-depth knowledge of the molecular bases of the main processes involved in the regulation of nucleic acid and protein structure and function
- 4) the knowledge of basic methodologies to study and manipulate biological macromolecules
- 5) the ability to investigate and develop basic methodologies which may be usefully applied to biomedical and biotechnological research
- 6) the acquisition of genetic-molecular skills for the diagnosis and treatment of genetic diseases
- 7) the skills suitable to identify the biological processes grounding the physiopathology of organs and systems, with special regard to human beings

More info:

prisca.ornaghi@uniroma1.it

Health Economics

Master's Degree - Taught in English - Duration (Years): 2

A.Y. 2020-2021

[NON-EU Students] Applications open from 28/11/2019 to 15/06/2020

[EU Students] Applications open from 28/11/2019 to 15/09/2020

The Master's programme of Health Economics (LM-56) offers multidisciplinary preparation in the field of health economics and policy, health law, business management of public and private firms operating in the health industry. The Master's programme trains economists, consultants and specialists to satisfy the increasing demand of qualified experts in the health sector. Graduates can hold senior positions in direct support of the General Director/Administrative Director/Top management of public institutions or private firms in the health sector, in national or international governmental organizations working in the field and in public or private research institutions.

Possible employers can be: -Government agencies and regulatory authorities operating in healthcare sectors -Ministries and other bodies responsible for health planning; -National and international organizations such as among others ISTAT, OECD, WHO, WORLD BANK - regulatory and programming bodies -NGOs -University

More info:

healtheco.ecodir@uniroma1.it

internationalstudents-eco@uniroma1.it

Mechanical Engineering

Master's Degree - Taught in English - Duration (Years): 2

A.Y. 2020-2021

[NON-EU Students] Applications open from 15/11/2019 to 15/04/2020

[EU Students] Applications open from 15/11/2019 to 15/09/2020

The Master of Science in Mechanical Engineering aims at training young engineers with an advanced education, providing them with skills in designing, planning and managing complex activities of research and development in an industrial environment. This goal is achieved by means of a broad training proposal based on advanced mathematics and physics, and professional expertise targeted to the solution of complex engineering problems concerning design of processes, plants, systems, devices, machines. Engineering Design professionals educated at Sapienza can work as technology specialists in a wide range of fields, including manufacturing, mechatronic, transportation (automotive, naval, aeronautical and railroad), conventional and renewable energy production, biomechanics and many others. In these settings mechanical engineers are responsible for design, testing, manage, research and development services.

More info:

mechanicalengineering@uniroma1.it

Nanotechnology Engineering

Master's Degree - Taught in English - Duration (Years): 2

A.Y. 2020-2021

[NON-EU Students] Applications open from 02/12/2019 to 30/04/2020

[EU Students] Applications open from 02/12/2019 to 31/07/2020

The Master's Degree in Nanotechnology Engineering is aimed at providing students with an advanced scientific and professional education, which is necessary to enter the international job market of Nanotechnologies. During the two years of the Master, students will develop a range of competences which are supposed to allow them to deal with problems related to the analysis, development, simulation and optimization of devices, materials and processes requiring the use of nanotechnologies, especially in the areas of Industrial Engineering and Electronics.

The course is aimed at the development of advanced tools of research and multiscale design, as well as the

technological innovation within the different areas in which nanotechnologies can be applied. The course is primarily focused on the following competences:

- Ability to manage and use micro and nanotechnologies for the development of materials, biotechnologies and processes applicable to the realization of new micro and nano-devices;
- Ability to manage projects using atomistic level simulation methods as well as new micro/nano-devices for specific functional and multifunctional applications;
- Ability to manage complex micro and nano-systems;
- Ability to face problems related to risk and security regarding the use of nanotechnologies.

Moreover, the learning process is meant to provide future Nanotechnology Engineers with the ability to integrate the technical-scientific knowledge with contextual and horizontal competences and soft skills, including those communicative tools which are considered as indispensable to operate in an international environment.

The abilities described above will be reached thanks to a stimulating educational offer, focused on deepening the following issues: nanofabrication techniques, processes of auto-assembling of nanostructures, surfaces engineering, methods of atomistic modelling of nanostructures, characterization techniques up till nanoscopic scale. Students will be also introduced to techniques and methods of analysis and design of new materials and micro/nanostructured surfaces, multifunctional and intelligent, aimed at the realization of fluid, electric, electronic, electromagnetic, photonic or hybrid nano and micro-mechanic devices, and to the development of flux-based and reagent-based microsystems aimed at the transportation, separation, purification and amplification of cellular and sub-cellular composites, micro-probes and biocompatible materials for the recovering and rehabilitation of tissues and organs.

More info:

ingegneria_nanotecnologie.lm53@uniroma1.it

Product Design

Master's Degree - Taught in English - Duration (Years): 2

A.Y. 2020-2021

[NON-EU Students] Applications open from 04/12/2019 to 15/05/2020

[EU Students] Applications open from 04/12/2019 to 10/09/2020

The M.Sc. in Product Design is for who want to deepen their design skills and explore technologies, cultural languages, and business. Our students will face creative challenges in developing products and services to improve people's lives. They will design extensively, think creatively and reflect critically. The Master is organized in 4 semesters aimed to acquire innovative skills in Aesthetics, Social Communication, Intelligent Technologies, Digital Representation, Mechanics; exploring and practicing the most recent Design Thinking; understanding and developing sustainable, smart and innovative production and consumption processes. The final work is a research-based activity aimed to develop a functional prototype of an innovative product or service, in collaboration with R&D departments or universities labs or research centres. Our graduates can spend their skills at the management level within companies, or launch new start-ups, or continue their training during the Ph.D. course.

More info:

msproductdesign@uniroma1.it

Science and Technology for the Conservation of Cultural Heritage

Master's Degree - Taught in English - Duration (Years): 2

A.Y. 2020-2021

[NON-EU Students] Applications open from 28/11/2019 to 15/06/2020

[EU Students] Applications open from 28/11/2019 to 15/09/2020

The Study Programme, that has a two-year duration and is provided in two curricula (in Italian and in English), aims to train experts in the field of cultural heritage conservation and archaeometry. They will be able to analyse conservation problems and to detect deterioration processes thanks to their knowledge of the physical, chemical and structural properties of materials, as well as to identify any possible remedies. The

multidisciplinary nature of the cultural heritage field calls for a variety of programmes which allows to meet the scientific and professional requirements of such field and provides at the same time a group of courses to complete the humanities education and to offer specialisation in general disciplines. Training is completed by means of internships at university scientific labs or at public and private bodies of the field.

More info:

scienzebc@uniroma1.it

Space and Astronautical Engineering

Master's Degree - Taught in English - Duration (Years): 2

A.Y. 2020-2021

[NON-EU Students] Applications open from 28/11/2019 to 15/04/2020

[EU Students] Applications open from 28/11/2019 to 30/06/2020

The Programme provides students with specific skills in space mission planning and in analysis & design of launchers, satellites and remote metering/telemetry systems. It emphasises systems-related and interdisciplinary aspects and is linked with research/innovation activities in European aerospace industries. Graduates will be able to address complex issues requiring analysis, development, simulation and optimization in a wide range of aerospace-related topics. The Aerospace Engineering curriculum held in English is organized as follows. 1st year: knowledge is provided in major aerospace areas, Spaceflight Mechanics & Attitude Dynamics, Controls, Fluid Dynamics, Propulsion, Structures and Space Systems. 2nd year: students select courses from a wide range of Space and Astronautical Engineering topics.

Selection Process: Admission/rejection letters are sent by 7 days from application; if letter is not received in 7 days, candidates may be admitted in April if places are available.

More info:

aerospaceengineering@uniroma1.it

Statistical Methods and Applications

Master's Degree - Taught in English - Duration (Years): 2

A.Y. 2020-2021

[NON-EU Students] Applications open from 04/12/2019 to 15/05/2020

[EU Students] Applications open from 04/12/2019 to 15/05/2020

SMA - Statistical Methods and Applications - is the acronym of the brand-new two-year Master of Science (corresponding to the Italian Laurea Magistrale degree) entirely taught in English and delivered by the Department of Statistical Science (DSS). DSS is the largest Department of Statistics in Italy and its faculty members enjoy international reputation in teaching and research. DSS hosts one of the most powerful computing resources at Sapienza University of Rome. The Master programme is entirely held in English. It provides students with specific statistical skills through a suitable mix of advanced data modelling methodologies and hand-on professional training to address complex scientific and socio-economic problems.

More info:

sma-dss@uniroma1.it

Sustainable Building Engineering

Bachelor's Degree - Taught in English - Duration (Years): 3

A.Y. 2020-2021

[NON-EU Students] Applications open from 28/11/2019 to 31/05/2020

[EU Students] Applications open from 28/11/2019 to 15/09/2020

The Degree aims to familiarize students with the knowledge and skills which provide a sustainable future as for existing buildings as for those they will design and build. The main purpose of this degree is to update traditional, world-renowned, Italian civil engineering skills, with a particular focus on sustainable development. To achieve this target, the Degree will ensure the acquisition of scientific and technological contents aimed to design, plan and manage solutions in terms of sustainable architecture, built environment sustainability of territories, following these principles: Lower energy demand and consumption buildings; Exploit climate and natural resources to develop passive design strategies and sustainable architecture; Reuse or recycle building materials; Extend the lifetime of buildings; Risk-free return of materials to the natural cycle; Adopt a sustainable use of the territory; Reduce urban sprawl, promote urban renewal and protection of natural areas

More info:

sbe@uniroma1.it

Transport Systems Engineering

Master's Degree - Taught in English - Duration (Years): 2

A.Y. 2020-2021

[NON-EU Students] Applications open from 28/11/2019 to 15/06/2020

[EU Students] Applications open from 28/11/2019 to 15/09/2020

The Master Degree in Transport Systems Engineering aims at providing Students with high-level qualifications, so as to allow them to perform and manage a wide variety of activities connected with planning, programming, operating, monitoring transport systems and their components.

The professional skills of a Transport Systems Engineer include:

- methods to design transport systems: formulation of dimensional and performance specifications for system components;
- models for mobility of people and goods, for transport supply on multi-modal networks, for demand/supply interaction and equilibrium calculation;
- design and implementation of transport systems (technical and economic aspects), transport and mobility plans on different levels;
- on-line and off-line models for transport system operations and management;
- monitoring and ex-ante/ex-post assessment of mobility solutions from the technical, economic and environmental point of view.

More info:

stefano.ricci@uniroma1.it

natalia.isaenko@uniroma1.it

Ingegneria delle Nanotecnologie

Master's Degree - Insegnato in Italiano - Duration (Years): 2

A.Y. 2020-2021

[NON-EU Students] Applications open from 02/12/2019 to 30/04/2020

[EU Students] Applications open from 02/12/2019 to 30/07/2020

Il Master in Ingegneria delle nanotecnologie ha lo scopo di fornire agli studenti una formazione scientifica e professionale avanzata, necessaria per entrare nel mercato del lavoro internazionale delle nanotecnologie. Durante i due anni del Master, gli studenti svilupperanno una gamma di competenze che dovrebbero permettere loro di affrontare problemi relativi all'analisi, allo sviluppo, alla simulazione e all'ottimizzazione di dispositivi, materiali e processi che richiedono l'uso di nanotecnologie, specialmente nelle aree di Ingegneria Industriale ed Elettronica. Il corso è finalizzato allo sviluppo di strumenti avanzati di ricerca e progettazione multiscala, nonché all'innovazione tecnologica all'interno delle diverse aree in cui le nanotecnologie possono essere applicate.

Il corso si concentra principalmente sulle seguenti competenze:

- Capacità di gestire e utilizzare micro e nanotecnologie per lo sviluppo di materiali, biotecnologie e processi applicabili alla realizzazione di nuovi micro e nano-dispositivi;
- Capacità di gestire progetti utilizzando metodi di simulazione a livello atomistico e nuovi micro / nano-dispositivi per specifiche applicazioni funzionali e multifunzionali;
- Capacità di gestire micro e nano-sistemi complessi;
- Capacità di affrontare i problemi legati al rischio e alla sicurezza riguardanti l'uso delle nanotecnologie.

Inoltre, il processo di apprendimento ha lo scopo di fornire ai futuri ingegneri delle nanotecnologie la capacità di integrare le conoscenze tecnico-scientifiche con competenze contestuali e orizzontali e competenze trasversali, compresi quegli strumenti comunicativi che sono considerati indispensabili per operare in un ambiente internazionale. Le abilità sopra descritte saranno raggiunte grazie a un'offerta educativa stimolante, focalizzata sull'approfondimento dei seguenti temi: tecniche di nanofabbricazione, processi di auto-assemblaggio di nanostrutture, ingegneria delle superfici, metodi di modellazione atomistica di nanostrutture, tecniche di caratterizzazione fino alla scala nanoscopica.

Gli studenti saranno inoltre introdotti a tecniche e metodi di analisi e progettazione di nuovi materiali e superfici micro / nanostrutturate, multifunzionali e intelligenti, finalizzati alla realizzazione di dispositivi fluidi, elettrici, elettronici, elettromagnetici, fotonici o ibridi nano e micro-meccanici, e allo sviluppo di microsistemi basati su flussi e reagenti finalizzati al trasporto, separazione, purificazione e amplificazione di composti cellulari e subcellulari, micro-sonde e materiali biocompatibili per il recupero e la riabilitazione di tessuti e organi.

More info:

ingegneria_nanotecnologie.lm53@uniroma1.it

Ingegneria gestionale

Laurea Magistrale - Insegnato in Italiano - Duration (Years): 2

A.Y. 2020-2021

[NON-EU Students] Applications open from 28/11/2019 to 15/04/2020

[EU Students] Applications open from 28/11/2019 to 15/09/2020

The Masters Degree course in Management Engineering at Sapienza University aims at disseminating knowledge and competencies that integrate the technological content typical of engineering disciplines with a full understanding of the economic and management aspects of decision-making problems within organizations. For this purpose, the course analyzes and discusses methods and models for the management of complex systems, with a high interaction between the evolution of technology, the structure of markets, and the competitive strategies of companies. The course intends to provide students with the ability to play a crucial role in the strategic and operational decisions of companies. This is made possible based on the high-level skills in using effectively and efficiently the methodologies of economic analysis, optimization and simulation techniques for identifying, formulating and solving problems related to the design, organization and management of production and service systems.

More info:

admissions@diag.uniroma1.it

Scienze dello sviluppo e della cooperazione internazionale

Master's Degree - Insegnato in Italiano - Duration (Years): 2

A.Y. 2020-2021

[NON-EU Students] Applications open from 02/12/2019 to 30/04/2020

[EU Students] Applications open from 02/12/2019 to 06/09/2020

Il Corso di laurea magistrale interfacoltà in Scienze dello Sviluppo e della Cooperazione Internazionale punta a fornire un'elevata professionalità nell'analisi dei fattori istituzionali e culturali e nella programmazione e gestione delle specifiche iniziative di cooperazione, indirizzate alla crescita delle società in via di sviluppo. Il Corso, istituito dalle Facoltà di Scienze Politiche, Sociologia, Comunicazione, e di Lettere e Filosofia, offre conoscenze interdisciplinari e strumenti operativi per l'analisi e l'interpretazione dei contesti dei paesi emergenti e per la gestione di programmi e progetti per la pace e per la cooperazione internazionale allo

sviluppo.

Fornisce altresì avanzate competenze necessarie per:

- l'ideazione, la redazione, l'attuazione e la direzione di programmi e progetti integrati di cooperazione allo sviluppo;
- l'applicazione dei principali metodi di monitoraggio e valutazione;
- l'utilizzo fluente, in forma scritta e orale, dell'inglese e una buona conoscenza della lingua francese, spagnola, con possibilità di accesso anche ad altre lingue;
- l'utilizzo degli strumenti per la comunicazione e la gestione dell'informazione.

Nel secondo anno il curriculum di studio si articola in due indirizzi altamente caratterizzanti, orientati a coniugare un elevato grado di conoscenza specialistica con un'adeguata formazione operativa:

Indirizzo Socio-Politico-Economico;

Indirizzo Economics for development.

More info:

internationalstudentscoris@uniroma1.it; magistralicoris@uniroma1.it