SAPIENZA
UNIVERSITÀ DI ROMA

CIVIS
A European Civic University

CIVIS OPEN ONLINE COURSE CATALOGUE
SAPIENZA UNIVERSITY OF ROME
COURSES LIST

Academic Year 2022-2023

TITLE: Laboratory of Product Representation

Faculty of Architecture

Internal code

10589029

LANGUAGE(S)	English	**LEVEL OF STUDY**	Master
CREDIT POINTS	**N/A**	**LIMITED ATTENDANCE**	
THEMATIC CIVIS AREA(S)	Digital & technological transformation	**OTHER DOMAIN OF STUDY**	3D modeling | Computational Design
PERIOD	First semester	**DURATION**	72h / total 14 weeks

DESCRIPTION:

General goals:
This represents a basic course about Design Representation, 3D Modeling and Computational Design
Specific goals:
- Experiment some different aspects of the production process of product design;
- Acquiring the ability to understand 3D space:
- Control the dual path of design, from real to virtual and back
- Learning 2D/3D modelling approaches;
- Acquiring 3D Imaging skills;
- Managing technical drawing and rendering simulations;
- Preparing a presentation of design products

Knowledge and understanding:
The student will acquire:
1. The ability to observe and understand the relation between product and space.
2. The knowledge to manage different types of models, supporting all possible purposes in the path of knowledge and visualization of the product;
3. The capabilities for using correct pictures both as data source for analysis and final purpose of communicating 3D models.

Applying knowledge and understanding:
The knowledge acquired is basic in Product ande Service Design field, but it can be expanded to Architecture and Communication domain

Communication skills:
Developing students' ability to communicate advanced results in the field of Product Design

Ability of learning:
Knowledge about Design Representation is necessary to understand the relation between products and environment, evaluating their capacities and defining a geometrical schema to simulate reality, supporting both project and analysis path."

PREREQUISITES	
WEBSITE	
CONTACT INFORMATION	m.russo@uniroma1.it
REGISTRATION	Students should write to civis_openonlinecourses.ari@uniroma1.it indicating the name and code of the course and enclosing a transcript of records.

TITLE: Advanced Design Studio

Faculty of Architecture

Internal code
N/A

LANGUAGE(S)	English	**LEVEL OF STUDY**	Master Design for sustainable consumption and production
CREDIT POINTS	**N/A**	**LIMITED ATTENDANCE**	
THEMATIC CIVIS AREA(S)	Climate, Environment, Energy	**OTHER DOMAIN OF STUDY**	**Society, Culture, HeritageSociety, Culture, Heritage**
PERIOD	Second semester	**DURATION**	120h / total 14 weeks

DESCRIPTION:

This is a team-based studio focused on the exploration of the contemporary changes in the structure of markets, as well as, of the emerging forms of production-distribution, which require also changes in the design approaches and in the design activities results.

The packaging industry is the Design topic. The design purpose is to investigate the future of the packaging starting from its historical evolution, replying to the more urgent needs and applying a systemic approach to innovation.

At the same time, in order to involve the students in an advanced design process, the follow aspects will be taken in account:

from social point of view, the phenomenon of self-production and consciousness consumption (DIY, makers, critical mass, fabing, ecc.);

from technological point of view, the improvement of new manufacturing (digital fabrication, advanced manufacturing, crowd-sourcing);

from economic point of view, the phenomenon of open-sourcing and the sharing-economy (crowd-sourcing, social networking, botton-up economy); from environmental point of view, the phenomenon of the zero-impact, zero-waste and zero-resources.

PREREQUISITES	
WEBSITE	https://www.architettura.uniroma1.it/
CONTACT INFORMATION	loredana.dilucchio@uniroma1.it
REGISTRATION	Students should write to civis_openonlinecourses.ari@uniroma1.it indicating the name and code of the course and enclosing a transcript of records.

TITLE: URBAN DESIGN STUDIO FOR REGENERATION

Faculty of Architecture

Internal code

10588655

LANGUAGE(S)	English	**LEVEL OF STUDY**	Master
CREDIT POINTS	**N/A**	**LIMITED ATTENDANCE**	
THEMATIC CIVIS AREA(S)	Cities, Territories, Mobility	**OTHER DOMAIN OF STUDY**	Urban Planning
PERIOD	First semester	**DURATION**	125h / total 14 weeks

DESCRIPTION:

N/A

PREREQUISITES	
WEBSITE	https://www.architettura.uniroma1.it/
CONTACT INFORMATION	marika.fior@uniroma1.it
REGISTRATION	Students should write to civis_openonlinecourses.ari@uniroma1.it indicating the name and code of the course and enclosing a transcript of records.

TITLE: DESIGN STUDIO - ARCHITECTURE AND URBAN DESIGN

Faculty of Architecture

Internal code

1056423

LANGUAGE(S)	English	**LEVEL OF STUDY**	Master
CREDIT POINTS	**N/A**	**LIMITED ATTENDANCE**	10
THEMATIC CIVIS AREA(S)	Cities, Territories, Mobility	**OTHER DOMAIN OF STUDY**	Architecture
PERIOD	**First semester**	**DURATION**	100h / total 14 weeks

DESCRIPTION:

DESIGN STUDIO - ARCHITECTURE AND URBAN DESIGN proposes the design of a new residential building where the students must first define the overall design and then architecturally develop an intervention unit (design and construction unit). Consequently, the laboratory is divided into two distinct phases, but strictly and logically connected.

PREREQUISITES	yes, sending an email to the professor
WEBSITE	https://corsidilaurea.uniroma1.it/it/view-course-details/2021/29390/20210916103754/defa1bf9-b2f8-4478-83ac-bff72668ffeb/d1dc2483-7522-4739-b7c4-0c183d865dbf/fab39f08-0868-4fdd-aa04-713a15702d25/a71a322f-ec1f-44fa-8202-c4e221264c81?guid_cv=d1dc2483-7522-4739-b7c4-0c183d865dbf&current_erogata=defa1bf9-b2f8-4478-83ac-bff72668ffeb
CONTACT INFORMATION	anna.delmonaco@uniroma1.it
REGISTRATION	Students should write to civis_openonlinecourses.ari@uniroma1.it indicating the name and code of the course and enclosing a transcript of records.

TITLE: HOUSING POLICIES, STRATEGIES AND TOOLS FOR URBAN REGENERATION

Faculty of Architecture

Internal code

10588649

LANGUAGE(S)	English	**LEVEL OF STUDY**	Master
CREDIT POINTS	8	**LIMITED ATTENDANCE**	No
THEMATIC CIVIS AREA(S)	Cities, Territories, Mobility	**OTHER DOMAIN OF STUDY**	Urban Planning
PERIOD	Second semester	**DURATION**	100h / total 14 weeks

DESCRIPTION:

The course aims to provide an adequate knowledge of the policies, strategies and tools for housing, within the national and international regulatory framework, with particular reference to urban regeneration strategies.
Regeneration strategies concern not only physical-morphological redevelopment interventions, but also projects aimed at providing an integrated response to the demands of environmental regeneration, socio-economic revitalization and cultural enhancement, according to principles of sustainability and resilience to environmental and socio-economic changes. Those strategies constitute the main point of reference for intervention in the contemporary city and, in particular, in the public housing settlements, pursuing the enhancement of the common goods, on which the structure and image of the city will be re-founded, the quality of the urban environment and the collective use of spaces.
In this framework, the course will refer to best practices characterized by disciplinary innovation, contextualised in the specific geographical contexts and time, emblematic in terms of ecological-environmental sustainability, economic-financial feasibility and social inclusion. This best practice pursuit high levels of urban quality, through the construction of the public city and the enhancement of the common goods.
Furthermore, through a sperimentation activity, the course aims to verify the theoretical, methodological and operational references acquired.

PREREQUISITES	no
WEBSITE	https://www.architettura.uniroma1.it/
CONTACT INFORMATION	francesca.rossi@uniroma1.it
REGISTRATION	Students should write to civis_openonlinecourses.ari@uniroma1.it indicating the name and code of the course and enclosing a transcript of records.

TITLE: SUSTAINABLE DESIGN FOR GREENER CITIES

Faculty of Architecture

Internal code

10588646

LANGUAGE(S)	English	**LEVEL OF STUDY**	Architectural Technologies
CREDIT POINTS	8	**LIMITED ATTENDANCE**	No
THEMATIC CIVIS AREA(S)	Cities, Territories, Mobility,Climate, Environment, Energy	**OTHER DOMAIN OF STUDY**	**Climate, Environment, Energy**
PERIOD	Second semester	**DURATION**	100h / total 14 weeks

DESCRIPTION:

The course deals with the theme of sustainable design, with particular attention to the redevelopment of existing buildings as a fundamental strategy for the regeneration of current urban contexts, deepening the themes and knowledge on technologies, materials and technical solutions for the reconversion of building structures. characterized by poor ecological compatibility and poor energy-environmental efficiency in eco-compatible and eco-efficient buildings, able to respond adequately to the current environmental demands for controlling the impacts in the atmosphere, limiting climate-altering emissions, microclimatic quality of urban environments and saving of energy resources.

Within this general framework, specific methodological approaches will be defined which, starting from appropriate analyzes of the urban and environmental context of reference (analyzes relating to the microclimatic, biophysical and anthropic environmental system), object of specific lessons, define substantial and fundamental inputs. of the technical-design processes, in particular through the identification of environmental criticalities to be solved and potentialities to be used for the purpose of a bio-ecological and energetic improvement of the built context. The technical and technological aspects related to energy and bioclimatic retrofitting strategies, central strategies for effective regeneration and redevelopment of urban contexts and buildings in terms of eco-efficiency and low environmental impact will therefore be studied in depth.

The lessons will be divided into the following themes:

• Sustainable Building for Greener Cities

General characters and principles, examples of best practice

• The knowledge and understanding of the specific characteristics of the context as a fundamental input for urban regeneration and building redevelopment operations.

Analysis of the reference environmental context:

- Analysis of the microclimatic system (climatic-environmental components; analysis tools and methodologies)

- Analysis of the physical layout of the places (biophysical system, anthropic system, criteria and methods of analysis)

- Analysis of the reference building context (analysis of the energy-environmental behavior of buildings; analysis of the performance and requirements expressed by the different classes of demand; analysis of the technological characteristics)

• Technologies for bio-ecological requalification and energy and environmental rebalancing of the built context: technical solutions, materials, technological innovation.

- Technologies, materials and technical solutions for the bio-ecological and energy efficiency of the built structures (with particular reference to the conditions of healthiness and environmental compatibility of urban spaces and confined spaces)

- Technologies, materials and technical solutions for solving and mitigating the critical environmental conditions of the built structures (e.g. inadequate sunshine and ventilation conditions in both summer and winter, such as to determine situations of discomfort and high energy demands for indoor microclimatic rebalancing, etc.)

- Technologies, materials and technical solutions for the use and optimization of the environmental potential of the built structures (e.g. environmental conditions favorable to the use of natural environmental flows and natural operating principles for the air conditioning of buildings, etc.)

PREREQUISITES	no
WEBSITE	https://www.architettura.uniroma1.it/
CONTACT INFORMATION	mariabeatrice.andreucci@uniroma1.it
REGISTRATION	Students should write to civis_openonlinecourses.ari@uniroma1.it indicating the name and code of the course and enclosing a transcript of records.

TITLE: ARTIST ON THE MOVE

Faculty of Arts and Humanities

Internal code

10595494

LANGUAGE(S)	English	**LEVEL OF STUDY**	MASTER
CREDIT POINTS	6	**LIMITED ATTENDANCE**	NO
THEMATIC CIVIS AREA(S)	Society, culture, heritage	**OTHER DOMAIN OF STUDY**	**GLOBAL HUMANITIESGLOBAL HUMANITIES**
PERIOD	I SEMESTER	**DURATION**	SEMESTER

DESCRIPTION:

The module focuses on Tibetan contemporary artists who, whether at home or abroad, explore their multicultural influences, examining the tensions between traditional Tibetan and contemporary global culture. Some of the artists that will be introduced in the module include Gade (b. 1971, Lhasa), Gonkar Gyatso (b. 1961, Lhasa), Tenzing Rigdol (b. 1982, Kathmandu), Dedron (b. 1976, Lhasa).

PREREQUISITES	
WEBSITE	https://www.lettere.uniroma1.it/users/filippo-salviati
CONTACT INFORMATION	prof.salviati@gmail.com
REGISTRATION	Students should write to civis_openonlinecourses.ari@uniroma1.it indicating the name and code of the course and enclosing a transcript of records.

TITLE: Aesthetics III

Faculty of Arts and Humanities

Internal code

1052044

LANGUAGE(S)	English	**LEVEL OF STUDY**	MASTER
CREDIT POINTS	12	**LIMITED ATTENDANCE**	NO
THEMATIC CIVIS AREA(S)	Society, culture, heritage	**OTHER DOMAIN OF STUDY**	**AestheticsAesthetics**
PERIOD	I SEMESTER	**DURATION**	64+ 12

DESCRIPTION:

The course (in English and in seminar form) intends to deal with the knot enchantment/disenchantment/re-enchantment that, for some years, and with increasing strength, has taken on a new prominence in the philosophical, anthropological and more specifically aesthetic debate, also directly involving artistic practices. It is a debate that occupies the humanities and social sciences at least since the theses developed by Max Weber in the first two decades of the twentieth century, but in recent years - especially in the face of a crisis in the forms of life of the richest societies and with the proposal of the category of Anthropocene and its derivatives - has taken on a new importance. On the one hand there are those who argue that the process of disenchantment of the world envisaged by Weber - as a premise of the great historical process of rationalization that tends to invest all spheres of life, stripping the world of any magical, animistic, anthropomorphic element, and making it dumb and deaf to any request for unitary sense - is the inescapable horizon of modernity. On the other hand, there are those who contest this picture, considering disenchantment as a partial phenomenon or as a prejudice, insisting either on the persistence of “non-disenchanted" pockets (magical, material and spiritual beliefs and practices, within our society and in other societies), or contesting the picture that modernity has made of itself ("we have never been modern", as Bruno Latour wrote). Still others seek modes and forms of life that are supposed to lead to a re-enchantment of the world. But what does this slogan imply? Aesthetic reflection and artistic practices are important elements in this debate that brings into play the most evident coordinates of modernity (critique and autonomy, the vision of nature and scientific research, the constitution of subjectivity and forms of social and political organization). We will analyze and discuss in class some texts and works that will allow to clarify the terms of this debate.

WEBSITE	https://www.lettere.uniroma1.it/users/stefano-velotti
CONTACT INFORMATION	stefano.valotti@uniroma1.it
REGISTRATION	Students should write to civis_openonlinecourses.ari@uniroma1.it indicating the name and code of the course and enclosing a transcript of records.

TITLE: NARRATIVES OF MODERNITY IN COLONIAL AND POSTCOLONIAL INDIA B

Faculty of Arts and Humanities

Internal code

1055465

LANGUAGE(S)	English	**LEVEL OF STUDY**	MASTER
CREDIT POINTS	6	**LIMITED ATTENDANCE**	NO
THEMATIC CIVIS AREA(S)	Society, culture, heritage	**OTHER DOMAIN OF STUDY**	**Post Colonial StudiesPost Colonial Studies**
PERIOD	I SEMESTER	**DURATION**	30+12

DESCRIPTION:

Life stories are important historical documents providing insights into the social and cultural spirit of the times, without representing any objective historical 'truth'. As Arnold and Blackburn (2004) remind us, India provides a critical site for discussing life histories. The course draws attention to the diverse forms in which life narratives and expressions of selfhood were formulated in different historical periods in India, thus dismantling the long-held belief that the paradigm of collectivity had negated or marginalized the sense of individuality. Focusing on colonial and postcolonial narratives in India, this course analyses certain life stories in order to understand how these can be used for reconstructing history.

PREREQUISITES	
WEBSITE	https://www.lettere.uniroma1.it/users/sanjukta-das-gupta
CONTACT INFORMATION	sanjukta.dasgupta@uniroma1.it
REGISTRATION	Students should write to civis_openonlinecourses.ari@uniroma1.it indicating the name and code of the course and enclosing a transcript of records.

TITLE: LATIN CULTURE AND LITERATURE

Faculty of Arts and Humanities

Internal code

10595085

LANGUAGE(S)	English	**LEVEL OF STUDY**	BACHELOR
CREDIT POINTS	6	**LIMITED ATTENDANCE**	
THEMATIC CIVIS AREA(S)	Society, culture, heritage	**OTHER DOMAIN OF STUDY**	**Ancient LatinAncient Latin**
PERIOD	I SEMESTER	**DURATION**	30+12

DESCRIPTION:

The course shall survey key aspects and themes of Latin culture and literature

PREREQUISITES	
WEBSITE	https://www.lettere.uniroma1.it/users/giorgio-piras
CONTACT INFORMATION	giorgio.piras@uniroma1.it
REGISTRATION	Students should write to civis_openonlinecourses.ari@uniroma1.it indicating the name and code of the course and enclosing a transcript of records.

TITLE: KOREAN LANGUAGE AND LITERATURE A

Faculty of Arts and Humanities

Internal code

1055507

LANGUAGE(S)	English	**LEVEL OF STUDY**	MASTER
CREDIT POINTS	12	**LIMITED ATTENDANCE**	NO
THEMATIC CIVIS AREA(S)	Society, culture, heritage	**OTHER DOMAIN OF STUDY**	**ORIENTAL STUDIESORIENTAL STUDIES**
PERIOD	I+II SEMESTER	**DURATION**	ANNUAL

DESCRIPTION:

Language: the course is focused on teaching students with an intermediate level of Korean competence (independent user, reference level B2). Literature: reading, translation, textual analysis, and summary of the literary texts and essays. Tutorials on how to do research and write elaborations in Korean.

PREREQUISITES	KOREAN LANGUAGE B2-C1
WEBSITE	https://www.lettere.uniroma1.it/users/antonetta-bruno
CONTACT INFORMATION	antonetta.bruno@uniroma1.it
REGISTRATION	Students should write to civis_openonlinecourses.ari@uniroma1.it indicating the name and code of the course and enclosing a transcript of records.

TITLE: WORLD LITERATURE

Faculty of Arts and Humanities

Internal code

1055072

LANGUAGE(S)	English	**LEVEL OF STUDY**	MASTER
CREDIT POINTS	6	**LIMITED ATTENDANCE**	20
THEMATIC CIVIS AREA(S)	Society, culture, heritage	**OTHER DOMAIN OF STUDY**	
PERIOD	II SEMESTER	**DURATION**	30+12

DESCRIPTION:

This course is focused on the basic topics of World Literature: international and transnational canon debate, translation of literatures and cultures, transnationalism and comparatism.

PREREQUISITES	having some knowledge of comparative literature
WEBSITE	https://www.lettere.uniroma1.it/users/franca-sinopoli
CONTACT INFORMATION	FRANCA.SINOPOLI@UNIROMA1.IT
REGISTRATION	Students should write to civis_openonlinecourses.ari@uniroma1.it indicating the name and code of the course and enclosing a transcript of records.

TITLE: ROMAN ARCHAEOLOGY

Faculty of Arts and Humanities

Internal code

10592327

LANGUAGE(S)	English	**LEVEL OF STUDY**	MASTER
CREDIT POINTS	6	**LIMITED ATTENDANCE**	NO
THEMATIC CIVIS AREA(S)	Society, culture, heritage	**OTHER DOMAIN OF STUDY**	**ArchaeologyArchaeology**
PERIOD	II SEMESTER	**DURATION**	30+12

DESCRIPTION:

Ancient Rome. The Changing Landascapes of the Palatine Hill. Landscape and its content has been and still are very relevant and vital part of any cultural heritage. The course will introduce you to the way we have been reflecting on over the last twenty years and still are engaged with the study of cities of the Roman World, beginning from the most complex case in the ancient Mediterranean World: the core of Italy and of Roman Empire. Researches developed in the core of the ancient city (Palatine Hill and Forum Romanum) since the end of last century by teams of Sapienza Classical Archaeologists and other Italian and international equips opened a new phase in the urban archaeological investigation and in the scientific debate about the relation between archaeological features and literary tradition as well as the “correct use“ of both kind of evidence, key issues of wide archaeological and historical significance. Students will also be introduced to methods and procedures applied in collection, analyses, integration and interpretation of complex and multi-stratificated contexts. After a brief introduction to methods (part 1) and to the ancient city of Rome as a whole (part 2), in this course students will be introduced to reconstructions of the topographical history of the ancient city from the earliest phases to the end of the Empire (parts 3-8).

PREREQUISITES	
WEBSITE	https://www.lettere.uniroma1.it/users/paolo-carafa
CONTACT INFORMATION	paolo.carafa@uniroma1.it
REGISTRATION	Students should write to civis_openonlinecourses.ari@uniroma1.it indicating the name and code of the course and enclosing a transcript of records.

Co-funded by the Erasmus+ Programme of the European Union

TITLE: History of ancient philosophy I

Faculty of Arts and Humanities

Internal code

1056192

LANGUAGE(S)	English	**LEVEL OF STUDY**	MASTER
CREDIT POINTS	12	**LIMITED ATTENDANCE**	NO
THEMATIC CIVIS AREA(S)	Society, culture, heritage	**OTHER DOMAIN OF STUDY**	**Ancient PhylosophyAncient Phylosophy**
PERIOD	II SEMESTER	**DURATION**	64+ 12

DESCRIPTION:

New Trends in Ancient Philosophy: The Hellenistic Turning Point. Against the background of the more general conviction according to which in ancient philosophy there is no decadence after Plato and Aristotle, but rather a radically new approach under many respects critically developed against the so-called ‘classical philosophies’, the course will analyze crucial aspects of the most important Hellenistic philosophies (Epicureanism, Stoicisms, and Scepticisms, both Academic and Neo-Pyrrhonian), in order to underline some very important, if not decisive theoretical features of those trends of thought, still valid and productive even for contemporary philosophical debates with regards to basic disciplines as logics, physics, ethics and politics.

PREREQUISITES	
WEBSITE	https://www.lettere.uniroma1.it/users/emidio-spinelli
CONTACT INFORMATION	emidio.spinelli@uniroma1.it
REGISTRATION	Students should write to civis_openonlinecourses.ari@uniroma1.it indicating the name and code of the course and enclosing a transcript of records.

TITLE: COGNITIVE SEMANTICS

Faculty of Arts and Humanities

Internal code

10592791

LANGUAGE(S)	English	**LEVEL OF STUDY**	MASTER
CREDIT POINTS	6	**LIMITED ATTENDANCE**	NO
THEMATIC CIVIS AREA(S)	Society, culture, heritage	**OTHER DOMAIN OF STUDY**	**SemioticsSemiotics**
PERIOD	II SEMESTER	**DURATION**	30+12

DESCRIPTION:

The course aims at introducing the different conceptions of ‘language’ and consequently of ‘meaning’ developed in the complex paradigm of Cognitive Semantics.

PREREQUISITES	
WEBSITE	https://www.lettere.uniroma1.it/users/filomena-diodato
CONTACT INFORMATION	filomena.diodato@uniroma1.it
REGISTRATION	Students should write to civis_openonlinecourses.ari@uniroma1.it indicating the name and code of the course and enclosing a transcript of records.

TITLE: History of the english language

Faculty of Arts and Humanities

Internal code

1051450

LANGUAGE(S)	English	**LEVEL OF STUDY**	MASTER
CREDIT POINTS	6	**LIMITED ATTENDANCE**	NO
THEMATIC CIVIS AREA(S)	Society, culture, heritage	**OTHER DOMAIN OF STUDY**	**English LanguageEnglish Language**
PERIOD	II SEMESTER	**DURATION**	30+12

DESCRIPTION:

The study of the history of the English language can help students become aware of major issues in several academic fields, including history, literature, political science, anthropology, communication and, of course, languages and linguistics. The course will provide a general description of linguistic changes, and reasons for changes in the grammar, sounds, and vocabulary of English in XVI century. The module will focus on the Tudor period, and the cultural, religious, and economic changes that defined it: the effects of the development of printing, the ideological pressure of the Reformation, and the translation of classics and moderns are just some of the factors that would influence the English of this period. The linguistic variation in the diachronic perspective of the English vernacular will be explored through three text-types, translations, language manuals and dictionaries, all of which are dedicated to the reflection on language and communication between different languages. The figure and works of the Elizabethan linguist, lexicographer and translator John Florio will provide the privileged case study.

PREREQUISITES	
WEBSITE	https://www.lettere.uniroma1.it/users/donatella-montini
CONTACT INFORMATION	daniela.montini@uniroma1.it
REGISTRATION	Students should write to civis_openonlinecourses.ari@uniroma1.it indicating the name and code of the course and enclosing a transcript of records.

TITLE: Anglo-american literatures - advanced course

Faculty of Arts and Humanities

Internal code

10589164

LANGUAGE(S)	English	**LEVEL OF STUDY**	MASTER
CREDIT POINTS	6	**LIMITED ATTENDANCE**	NO
THEMATIC CIVIS AREA(S)	Society, culture, heritage	**OTHER DOMAIN OF STUDY**	**English LiteratureEnglish Literature**
PERIOD	II SEMESTER	**DURATION**	30+12

DESCRIPTION:

This 6 CFU course focuses on the traumatic memory and postmemory of World War II and the Holocaust as shaping forces in selected postmodernist and contemporary literary works by Kurt Vonnegut, Philip Roth, and Art Spiegelman. The syllabus will take into account different literary genres and forms, such as war novel, autofiction, uchronia, graphic novel memoir.

PREREQUISITES	
WEBSITE	https://www.lettere.uniroma1.it/users/paolo-simonetti
CONTACT INFORMATION	paolo.simonetti@uniroma1.it
REGISTRATION	Students should write to civis_openonlinecourses.ari@uniroma1.it indicating the name and code of the course and enclosing a transcript of records.

TITLE: SOCIAL HISTORY OF MODERN AND CONTEMPORARY INDIA B

Faculty of Arts and Humanities

Internal code
10599604

LANGUAGE(S)	English	**LEVEL OF STUDY**	MASTER
CREDIT POINTS	6	**LIMITED ATTENDANCE**	NO
THEMATIC CIVIS AREA(S)	Society, culture, heritage	**OTHER DOMAIN OF STUDY**	**Contemporary HistoryContemporary History**
PERIOD	II SEMESTER	**DURATION**	30+12

DESCRIPTION:

This course will examine some of the key themes in the social history of colonial India, with a focus on identity politics in the critical fields of caste, race and religion, and explore the linkages between them. Central to the course will be the socio-economic and political transitions experienced by Dalit and Adivasi communities in colonial and post-colonial India, highlighting the diverse representations of their histories and contemporary life experiences. Through an analysis of caste stratification, religious reforms, and the construction of 'tribe', the course will highlight their implications on constructions of nationalism, and on debates around 'tradition' and 'modernity'.

PREREQUISITES	
WEBSITE	https://www.lettere.uniroma1.it/users/sanjukta-das-gupta
CONTACT INFORMATION	sanjukta.dasgupta@uniroma1.it
REGISTRATION	Students should write to civis_openonlinecourses.ari@uniroma1.it indicating the name and code of the course and enclosing a transcript of records.

TITLE: Economia Politica (canale A-D)

Faculty of Economics

Internal code

1013712

LANGUAGE(S)	Italian	**LEVEL OF STUDY**	Bachelor
CREDIT POINTS	9	**LIMITED ATTENDANCE**	no
THEMATIC CIVIS AREA(S)	Other domain of study	**OTHER DOMAIN OF STUDY**	
PERIOD	I term	**DURATION**	72

DESCRIPTION:

Il corso si propone di fornire agli studenti i concetti di base della moderna teoria economica. Nelle lezioni frontali, l'esposizione teorica è integrata dalla descrizione dei tratti più rilevanti dell'economia contemporanea in modo da pervenire a un'adeguata comprensione del funzionamento dei moderni sistemi economici.

Nella prima parte del corso, vengono esaminate le scelte dei consumatori e delle imprese con l'obiettivo di illustrare le forze che determinano l'allocazione delle risorse e la determinazione delle quantità e dei prezzi nei singoli mercati.

L'analisi si basa sullo studio dei comportamenti individuali di consumatori e imprese e dell'interazione tra agenti economici in diverse forme di mercato (concorrenza perfetta, monopolio).

La seconda parte concentra l'attenzione sul funzionamento dell'economia nel suo complesso. L'obiettivo è di fornire gli strumenti per l'analisi e la spiegazione dell'andamento delle principali variabili macroeconomiche (produzione, occupazione, consumi, investimenti, tassi d'interesse, bilancio pubblico).

PREREQUISITES	no
WEBSITE	https://corsidilaurea.uniroma1.it/it/users/luigiventurauniroma1it
CONTACT INFORMATION	Luigi Ventura
REGISTRATION	Students should write to civis_openonlinecourses.ari@uniroma1.it indicating the name and code of the course and enclosing a transcript of records.

TITLE: Business Plan

Faculty of Economics

Internal code

10600119

LANGUAGE(S)	Italian	**LEVEL OF STUDY**	Master
CREDIT POINTS	9	**LIMITED ATTENDANCE**	no
THEMATIC CIVIS AREA(S)	Other domain of study	**OTHER DOMAIN OF STUDY**	
PERIOD	I term	**DURATION**	72

DESCRIPTION:

Obiettivo del corso è fornire agli studenti gli strumenti manageriali necessari alla costruzione, analisi e valutazione del Business Plan. A tal fine saranno indagate le principali problematiche della gestione aziendale sia sul piano qualitativo che quantitativo.

PREREQUISITES	no
WEBSITE	https://web.uniroma1.it/deap/informazioni-su-rosa-lombardi
CONTACT INFORMATION	Rosa Lombardi
REGISTRATION	Students should write to civis_openonlinecourses.ari@uniroma1.it indicating the name and code of the course and enclosing a transcript of records.

TITLE: Digital Transformation and Data Management

Faculty of Economics

Internal code

10589487

LANGUAGE(S)	English	**LEVEL OF STUDY**	Master
CREDIT POINTS	9	**LIMITED ATTENDANCE**	no
THEMATIC CIVIS AREA(S)	Digital & technological transformation	**OTHER DOMAIN OF STUDY**	
PERIOD	I term	**DURATION**	72

DESCRIPTION:

The aim of this course is twofold:

to provide students and practitioners with the basic knowledge for understanding the complexity of the challenges proposed by new digital technologies and introduce the tools for managing data coming from the business environment.

to introduce the students to the concepts of innovation and digital entrepreneurship. The module will benefit of the contributions coming from managers, researchers and innovators in order to raise the awareness regarding the disruptive nature of technological developments and develop the skills required to drive the transformation within enterprises.

PREREQUISITES	no
WEBSITE	https://web.uniroma1.it/dip_management/prof-francesco-bellini-0
CONTACT INFORMATION	Francesco Bellini
REGISTRATION	Students should write to civis_openonlinecourses.ari@uniroma1.it indicating the name and code of the course and enclosing a transcript of records.

TITLE: Diritto Commerciale

Faculty of Economics

Internal code

1017055

LANGUAGE(S)	Italian	**LEVEL OF STUDY**	Bachelor
CREDIT POINTS	9	**LIMITED ATTENDANCE**	no
THEMATIC CIVIS AREA(S)	Other domain of study	**OTHER DOMAIN OF STUDY**	
PERIOD	II term	**DURATION**	72

DESCRIPTION:

Evoluzione storica e normativa del Diritto commerciale; Impresa e imprenditore; Categorie di imprenditori; acquisto qualità imprenditori; statuto dell'imprenditore commerciale; l'azienda; i segni distintivi; la proprietà intellettuale; concorrenza; contratti d'impresa; consorzi; gruppo europeo di interesse economico, associazioni temporanee d'imprese, reti d'impresa; titoli di credito; società e figure affini; società di persone: società semplice, società in nome collettivo, società in accomandita semplice; società di capitali: società per azioni, società in accomandita per azioni, società a responsabilità limitata; società con azioni quotate nei mercati regolamentati; società cooperative e mutue assicuratrici; trasformazione, fusione e scissione; società europee, gruppi.

PREREQUISITES	no
WEBSITE	https://web.uniroma1.it/deap/informazioni-su-claudia-tedeschi
CONTACT INFORMATION	Claudia Tedeschi
REGISTRATION	Students should write to civis_openonlinecourses.ari@uniroma1.it indicating the name and code of the course and enclosing a transcript of records.

TITLE: Business Information Systems

Faculty of Economics

Internal code

1055962

LANGUAGE(S)	English	**LEVEL OF STUDY**	Master
CREDIT POINTS	9	**LIMITED ATTENDANCE**	no
THEMATIC CIVIS AREA(S)	Digital & technological transformation	**OTHER DOMAIN OF STUDY**	
PERIOD	II term	**DURATION**	72

DESCRIPTION:

The basic aim of the course is to provide students with the theoretical and technical knowledge in order to understand and use the tools and models that are based on the management of information systems. Students will be provided with the information concerning the current business models, the ways to increase competitive advantage with IT and MIS, how to manage and understand databases and data warehouses, which is the role and the advantage of the decision support systems, which may be the advantage of entering in the electronic commerce, how a system may be developed with information systems, which is the role played by a dynamic enterprise, how to protect data and which are the future trends. All elements cited above will be analyzed under an economic more than technical point of view aiming to understand which may be the effects on costs and on the efficiency of the organization.

PREREQUISITES	no
WEBSITE	https://web.uniroma1.it/dip_management/node/5598
CONTACT INFORMATION	Fabrizio D'Ascenzo
REGISTRATION	Students should write to civis_openonlinecourses.ari@uniroma1.it indicating the name and code of the course and enclosing a transcript of records.

TITLE: Greenhouse gases: control and treatment

Faculty of Civil and Industrial Engineering

Internal code

10599939

LANGUAGE(S)	English	**LEVEL OF STUDY**	Master
CREDIT POINTS	6 ECTS	**LIMITED ATTENDANCE**	no
THEMATIC CIVIS AREA(S)	Climate, Environment, Energy	**OTHER DOMAIN OF STUDY**	**Ingegneria per l'Ambiente e il TerritorioIngegneria per l'Ambiente e il Territorio**
PERIOD	22-23	**DURATION**	60 hours

DESCRIPTION:

https://corsidilaurea.uniroma1.it/it/corso/2021/31286/programmazione

PREREQUISITES	https://corsidilaurea.uniroma1.it/it/corso/2021/31286/programmazione
WEBSITE	https://web.uniroma1.it/cdaingambientale/
CONTACT INFORMATION	alessandra.polettini@uniroma1.it
REGISTRATION	Students should write to civis_openonlinecourses.ari@uniroma1.it indicating the name and code of the course and enclosing a transcript of records.

Co-funded by the Erasmus+ Programme of the European Union

TITLE: Sustainable use of underground resources

Faculty of Civil and Industrial Engineering

Internal code

N/A

LANGUAGE(S)	English	**LEVEL OF STUDY**	Master
CREDIT POINTS	6	**LIMITED ATTENDANCE**	no
THEMATIC CIVIS AREA(S)	Climate, Environment, Energy	**OTHER DOMAIN OF STUDY**	**Safety Engineering for territorial sustainability** **Safety Engineering for territorial sustainability**
PERIOD	22-23	**DURATION**	60 hours

DESCRIPTION:

N/A

PREREQUISITES	
WEBSITE	https://web.uniroma1.it/cdaingsicurezza/
CONTACT INFORMATION	claudio.alimonti@uniroma1.it
REGISTRATION	Students should write to civis_openonlinecourses.ari@uniroma1.it indicating the name and code of the course and enclosing a transcript of records.

TITLE: Safety of solid processing plants

Faculty of Civil and Industrial Engineering

Internal code

1051991

LANGUAGE(S)	English	**LEVEL OF STUDY**	Master
CREDIT POINTS	6+3	**LIMITED ATTENDANCE**	no
THEMATIC CIVIS AREA(S)	Climate, Environment, Energy	**OTHER DOMAIN OF STUDY**	**Safety Engineering for territorial sustainability** **Safety Engineering for territorial sustainability**
PERIOD	22-23	**DURATION**	90 hours

DESCRIPTION:

N/A

PREREQUISITES	
WEBSITE	https://web.uniroma1.it/cdaingsicurezza/
CONTACT INFORMATION	giuseppe.bonifazi@uniroma1.it
REGISTRATION	Students should write to civis_openonlinecourses.ari@uniroma1.it indicating the name and code of the course and enclosing a transcript of records.

TITLE: Geomatics for territorial monitoring plan (eng)

Faculty of Civil and Industrial Engineering

Internal code

N/A

LANGUAGE(S)	English	**LEVEL OF STUDY**	Master
CREDIT POINTS	6	**LIMITED ATTENDANCE**	no
THEMATIC CIVIS AREA(S)	Climate, Environment, Energy	**OTHER DOMAIN OF STUDY**	**Safety Engineering for territorial sustainability** **Safety Engineering for territorial sustainability**
PERIOD	22-23	**DURATION**	60 hours

DESCRIPTION:

N/A

PREREQUISITES	
WEBSITE	https://web.uniroma1.it/cdaingsicurezza/
CONTACT INFORMATION	mattia.crespi@uniroma1.it
REGISTRATION	Students should write to civis_openonlinecourses.ari@uniroma1.it indicating the name and code of the course and enclosing a transcript of records.

TITLE: Risk and territorial resilience

Faculty of Civil and Industrial Engineering

Internal code

N/A

LANGUAGE(S)	English	**LEVEL OF STUDY**	Master
CREDIT POINTS	6	**LIMITED ATTENDANCE**	no
THEMATIC CIVIS AREA(S)	Climate, Environment, Energy	**OTHER DOMAIN OF STUDY**	**Safety Engineering for territorial sustainability** **Safety Engineering for territorial sustainability**
PERIOD	22-23	**DURATION**	60 hours

DESCRIPTION:

N/A

PREREQUISITES	
WEBSITE	https://web.uniroma1.it/cdaingsicurezza/
CONTACT INFORMATION	N/A
REGISTRATION	Students should write to civis_openonlinecourses.ari@uniroma1.it indicating the name and code of the course and enclosing a transcript of records.

TITLE: Progettazione urbanistica

Faculty of Civil and Industrial Engineering

Internal code

1023225

LANGUAGE(S)	Italian	**LEVEL OF STUDY**	Master
CREDIT POINTS	12	**LIMITED ATTENDANCE**	no
THEMATIC CIVIS AREA(S)	Cities, Territories, Mobility	**OTHER DOMAIN OF STUDY**	**Ingegneria edile-architetturaIngegneria edile-architettura**
PERIOD	annuale	**DURATION**	120

DESCRIPTION:

https://corsidilaurea.uniroma1.it/it/view-course-details/2021/29922/20210916103754/b031e471-4b3c-4c9f-984c-a413c4bb974e/a3c3dd3c-6a85-4937-b5b5-0d0b20da59c5/f8de8f30-a3be-4ad3-b1b7-f1b5f17fef38/5222a020-a60a-4213-9be3-9d8b3d7b9ad8?guid_cv=a3c3dd3c-6a85-4937-b5b5-0d0b20da59c5&current_erogata=b031e471-4b3c-4c9f-984c-a413c4bb974e

PREREQUISITES	https://corsidilaurea.uniroma1.it/it/corso/2021/29922/home
WEBSITE	https://corsidilaurea.uniroma1.it/it/corso/2021/29922/home
CONTACT INFORMATION	Antonio.Cappuccitti@uniroma1.it
REGISTRATION	Students should write to civis_openonlinecourses.ari@uniroma1.it indicating the name and code of the course and enclosing a transcript of records.

TITLE: Progettazione architettonica e urbana

Faculty of Civil and Industrial Engineering

Internal code

1018761

LANGUAGE(S)	Italian	**LEVEL OF STUDY**	Master
CREDIT POINTS	9	**LIMITED ATTENDANCE**	no
THEMATIC CIVIS AREA(S)	Cities, Territories, Mobility	**OTHER DOMAIN OF STUDY**	**Ingegneria edile-architetturaIngegneria edile-architettura**
PERIOD	annuale	**DURATION**	90

DESCRIPTION:

https://corsidilaurea.uniroma1.it/it/view-course-details/2021/29922/20210916103754/b031e471-4b3c-4c9f-984c-a413c4bb974e/a3c3dd3c-6a85-4937-b5b5-0d0b20da59c5/f8de8f30-a3be-4ad3-b1b7-f1b5f17fef38/674723fe-9f7b-4c89-9a9f-d4619f1ba921?guid_cv=a3c3dd3c-6a85-4937-b5b5-0d0b20da59c5&current_erogata=b031e471-4b3c-4c9f-984c-a413c4bb974e

PREREQUISITES	https://corsidilaurea.uniroma1.it/it/corso/2021/29922/home
WEBSITE	https://corsidilaurea.uniroma1.it/it/corso/2021/29922/home
CONTACT INFORMATION	Maria.Argenti@uniroma1.it
REGISTRATION	Students should write to civis_openonlinecourses.ari@uniroma1.it indicating the name and code of the course and enclosing a transcript of records.

TITLE: Tecnica urbanistica con laboratorio progettuale

Faculty of Civil and Industrial Engineering

Internal code

1047190

LANGUAGE(S)	Italian	**LEVEL OF STUDY**	Master
CREDIT POINTS	9	**LIMITED ATTENDANCE**	no
THEMATIC CIVIS AREA(S)	Cities, Territories, Mobility	**OTHER DOMAIN OF STUDY**	**Ingegneria edile-architetturaIngegneria edile-architettura**
PERIOD	annuale	**DURATION**	90

DESCRIPTION:

https://corsidilaurea.uniroma1.it/it/view-course-details/2021/29922/20210916103754/b031e471-4b3c-4c9f-984c-a413c4bb974e/a3c3dd3c-6a85-4937-b5b5-0d0b20da59c5/5b095a8b-1aee-4654-b83a-0040574ee410/abc6dd2a-7d80-4661-9b61-c238710dac21?guid_cv=a3c3dd3c-6a85-4937-b5b5-0d0b20da59c5&current_erogata=b031e471-4b3c-4c9f-984c-a413c4bb974e

PREREQUISITES	https://corsidilaurea.uniroma1.it/it/corso/2021/29922/home
WEBSITE	https://corsidilaurea.uniroma1.it/it/corso/2021/29922/home
CONTACT INFORMATION	Fabiola.Fratini@uniroma1.it
REGISTRATION	Students should write to civis_openonlinecourses.ari@uniroma1.it indicating the name and code of the course and enclosing a transcript of records.

TITLE: Urbanistica con laboratorio progettuale

Faculty of Civil and Industrial Engineering

Internal code

1047191

LANGUAGE(S)	Italian	**LEVEL OF STUDY**	Master
CREDIT POINTS	12	**LIMITED ATTENDANCE**	no
THEMATIC CIVIS AREA(S)	Cities, Territories, Mobility	**OTHER DOMAIN OF STUDY**	**Ingegneria edile-architetturaIngegneria edile-architettura**
PERIOD	annuale	**DURATION**	120

DESCRIPTION:

https://corsidilaurea.uniroma1.it/it/view-course-details/2021/29922/20210916103754/b031e471-4b3c-4c9f-984c-a413c4bb974e/a3c3dd3c-6a85-4937-b5b5-0d0b20da59c5/4103056a-f874-4ade-b697-c68deb4be407/4845df17-e9d3-4899-95b2-ffb5f467792e?guid_cv=a3c3dd3c-6a85-4937-b5b5-0d0b20da59c5&current_erogata=b031e471-4b3c-4c9f-984c-a413c4bb974e

PREREQUISITES	https://corsidilaurea.uniroma1.it/it/corso/2021/29922/home
WEBSITE	https://corsidilaurea.uniroma1.it/it/corso/2021/29922/home
CONTACT INFORMATION	Claudia.Mattogno@uniroma1.it
REGISTRATION	Students should write to civis_openonlinecourses.ari@uniroma1.it indicating the name and code of the course and enclosing a transcript of records.

TITLE: Architettura e composizione architettonica 3 con laboratorio progettuale

Faculty of Civil and Industrial Engineering

Internal code
1022093

LANGUAGE(S)	Italian	**LEVEL OF STUDY**	Master
CREDIT POINTS	12	**LIMITED ATTENDANCE**	no
THEMATIC CIVIS AREA(S)	Cities, Territories, Mobility	**OTHER DOMAIN OF STUDY**	**Ingegneria edile-architetturaIngegneria edile-architettura**
PERIOD	annuale	**DURATION**	120

DESCRIPTION:

https://corsidilaurea.uniroma1.it/it/view-course-details/2021/29922/20210916103754/b031e471-4b3c-4c9f-984c-a413c4bb974e/a3c3dd3c-6a85-4937-b5b5-0d0b20da59c5/7828d45a-7127-4854-a0bc-e8754a5d9bd2/25bb744c-32e5-45be-8417-26d67de4a4e2?guid_cv=a3c3dd3c-6a85-4937-b5b5-0d0b20da59c5&current_erogata=b031e471-4b3c-4c9f-984c-a413c4bb974e

PREREQUISITES	https://corsidilaurea.uniroma1.it/it/corso/2021/29922/home
WEBSITE	https://corsidilaurea.uniroma1.it/it/corso/2021/29922/home
CONTACT INFORMATION	ruggero.lenci@uniroma1.it
REGISTRATION	Students should write to civis_openonlinecourses.ari@uniroma1.it indicating the name and code of the course and enclosing a transcript of records.

TITLE: Principi di Riabilitazione Strutturale

Faculty of Civil and Industrial Engineering

Internal code

1047246

LANGUAGE(S)	Italian	**LEVEL OF STUDY**	Master
CREDIT POINTS	9	**LIMITED ATTENDANCE**	no
THEMATIC CIVIS AREA(S)	Society, Culture, Heritage	**OTHER DOMAIN OF STUDY**	**Ingegneria edile-architetturaIngegneria edile-architettura**
PERIOD	annuale	**DURATION**	90

DESCRIPTION:

https://corsidilaurea.uniroma1.it/it/view-course-details/2021/29922/20210916103754/b031e471-4b3c-4c9f-984c-a413c4bb974e/a3c3dd3c-6a85-4937-b5b5-0d0b20da59c5/f8de8f30-a3be-4ad3-b1b7-f1b5f17fef38/328f95de-6365-46db-a7de-374ca4401bdd?guid_cv=a3c3dd3c-6a85-4937-b5b5-0d0b20da59c5&current_erogata=b031e471-4b3c-4c9f-984c-a413c4bb974e

PREREQUISITES	https://corsidilaurea.uniroma1.it/it/corso/2021/29922/home
WEBSITE	https://corsidilaurea.uniroma1.it/it/corso/2021/29922/home
CONTACT INFORMATION	Domenico.Liberatore@uniroma1.it
REGISTRATION	Students should write to civis_openonlinecourses.ari@uniroma1.it indicating the name and code of the course and enclosing a transcript of records.

TITLE: Elementi di Dinamica delle Strutture e Costruzioni Antisismiche

Faculty of Civil and Industrial Engineering

Internal code
1047242

LANGUAGE(S)	Italian	**LEVEL OF STUDY**	Master
CREDIT POINTS	6	**LIMITED ATTENDANCE**	no
THEMATIC CIVIS AREA(S)	Society, Culture, Heritage	**OTHER DOMAIN OF STUDY**	**Ingegneria edile-architetturaIngegneria edile-architettura**
PERIOD	annuale	**DURATION**	60

DESCRIPTION:

https://corsidilaurea.uniroma1.it/it/view-course-details/2021/29922/20210916103754/b031e471-4b3c-4c9f-984c-a413c4bb974e/a3c3dd3c-6a85-4937-b5b5-0d0b20da59c5/f8de8f30-a3be-4ad3-b1b7-f1b5f17fef38/c244efb1-c8b7-4f4c-9189-8ba5220f1368?guid_cv=a3c3dd3c-6a85-4937-b5b5-0d0b20da59c5&current_erogata=b031e471-4b3c-4c9f-984c-a413c4bb974e

PREREQUISITES	https://corsidilaurea.uniroma1.it/it/corso/2021/29922/home
WEBSITE	https://corsidilaurea.uniroma1.it/it/corso/2021/29922/home
CONTACT INFORMATION	Maurizio.DeAngelis@uniroma1.it
REGISTRATION	Students should write to civis_openonlinecourses.ari@uniroma1.it indicating the name and code of the course and enclosing a transcript of records.

Co-funded by the Erasmus+ Programme of the European Union

TITLE: Architettura tecnica e sostenibilità ambientale

Faculty of Civil and Industrial Engineering

Internal code

1047245

LANGUAGE(S)	Italian	**LEVEL OF STUDY**	Master
CREDIT POINTS		**LIMITED ATTENDANCE**	no
THEMATIC CIVIS AREA(S)	Climate, Environment, Energy	**OTHER DOMAIN OF STUDY**	**Ingegneria edile-architetturaIngegneria edile-architettura**
PERIOD	annuale	**DURATION**	

DESCRIPTION:

https://corsidilaurea.uniroma1.it/it/view-course-details/2021/29922/20210916103754/b031e471-4b3c-4c9f-984c-a413c4bb974e/a3c3dd3c-6a85-4937-b5b5-0d0b20da59c5/f8de8f30-a3be-4ad3-b1b7-f1b5f17fef38/51cbaf1e-71cd-4bf7-90f3-6712f32bea7a?guid_cv=a3c3dd3c-6a85-4937-b5b5-0d0b20da59c5&current_erogata=b031e471-4b3c-4c9f-984c-a413c4bb974e

PREREQUISITES	https://corsidilaurea.uniroma1.it/it/corso/2021/29922/home
WEBSITE	https://corsidilaurea.uniroma1.it/it/corso/2021/29922/home
CONTACT INFORMATION	Michele.Morganti@uniroma1.it
REGISTRATION	Students should write to civis_openonlinecourses.ari@uniroma1.it indicating the name and code of the course and enclosing a transcript of records.

TITLE: Restauro architettonico con Laboratorio progettuale

Faculty of Civil and Industrial Engineering

Internal code

1021704

LANGUAGE(S)	Italian	**LEVEL OF STUDY**	Master
CREDIT POINTS	12	**LIMITED ATTENDANCE**	no
THEMATIC CIVIS AREA(S)	Society, Culture, Heritage	**OTHER DOMAIN OF STUDY**	**Ingegneria edile-architetturaIngegneria edile-architettura**
PERIOD	annuale	**DURATION**	120

DESCRIPTION:

https://corsidilaurea.uniroma1.it/it/view-course-details/2021/29922/20210916103754/b031e471-4b3c-4c9f-984c-a413c4bb974e/a3c3dd3c-6a85-4937-b5b5-0d0b20da59c5/f8de8f30-a3be-4ad3-b1b7-f1b5f17fef38/63adfd97-3b4a-46f0-a7a7-ddf83de01219?guid_cv=a3c3dd3c-6a85-4937-b5b5-0d0b20da59c5&current_erogata=b031e471-4b3c-4c9f-984c-a413c4bb974e

PREREQUISITES	https://corsidilaurea.uniroma1.it/it/corso/2021/29922/home
WEBSITE	https://corsidilaurea.uniroma1.it/it/corso/2021/29922/home
CONTACT INFORMATION	Maria.GraziaTurco@uniroma1.it
REGISTRATION	Students should write to civis_openonlinecourses.ari@uniroma1.it indicating the name and code of the course and enclosing a transcript of records.

TITLE: Urban climatology

Faculty of Civil and Industrial Engineering

Internal code

10599936

LANGUAGE(S)	English	**LEVEL OF STUDY**	Master
CREDIT POINTS	9 ECTS	**LIMITED ATTENDANCE**	no
THEMATIC CIVIS AREA(S)	Climate, Environment, Energy	**OTHER DOMAIN OF STUDY**	**Ingegneria AmbientaleIngegneria Ambientale**
PERIOD	I semester	**DURATION**	90

DESCRIPTION:

https://corsidilaurea.uniroma1.it/it/view-course-details/2021/31286/20210916103754/eba72de2-f38e-4ecf-a289-59acacdd7f59/ae82703b-3d86-451c-bbd4-1580012a1d9b/e2c2d212-23af-4ce6-8cf4-45a886bfddf6/a1aeb258-0d26-4a32-ad26-6a9d776efa69?guid_cv=ae82703b-3d86-451c-bbd4-1580012a1d9b&current_erogata=eba72de2-f38e-4ecf-a289-59acacdd7f59

PREREQUISITES	https://corsidilaurea.uniroma1.it/it/view-course-details/2021/31286/20210916103754/eba72de2-f38e-4ecf-a289-59acacdd7f59/ae82703b-3d86-451c-bbd4-1580012a1d9b/e2c2d212-23af-4ce6-8cf4-45a886bfddf6/a1aeb258-0d26-4a32-ad26-6a9d776efa69?guid_cv=ae82703b-3d86-45
WEBSITE	https://web.uniroma1.it/cdaingambientale/corsi-di-laurea/magistrale
CONTACT INFORMATION	paolo.monti@uniroma1.it
REGISTRATION	Students should write to civis_openonlinecourses.ari@uniroma1.it indicating the name and code of the course and enclosing a transcript of records.

TITLE: Water and solid waste treatment plants

Faculty of Civil and Industrial Engineering

Internal code

10595646

LANGUAGE(S)	English	**LEVEL OF STUDY**	Master
CREDIT POINTS	9 CFU	**LIMITED ATTENDANCE**	no
THEMATIC CIVIS AREA(S)	Climate, Environment, Energy	**OTHER DOMAIN OF STUDY**	**Environmental and Sustainable Building EngineeringEnvironmental and Sustainable Building Engineering**
PERIOD	I semester	**DURATION**	90

DESCRIPTION:

https://corsidilaurea.uniroma1.it/it/view-course-details/2020/30842/20200313105820/bbb7145d-7e1c-4377-99ed-9b5b1a461583/10239963-89ad-4166-9859-70b09549fc2e/d4cfd079-3003-43a6-b22e-8a2ba112ebef/b3769cc0-12dc-4887-acc6-419e3d8f0b1c?guid_cv=10239963-89ad-4166-9859-70b09549fc2e&current_erogata=bbb7145d-7e1c-4377-99ed-9b5b1a461583

PREREQUISITES	https://corsidilaurea.uniroma1.it/it/view-course-details/2020/30842/20200313105820/bbb7145d-7e1c-4377-99ed-9b5b1a461583/10239963-89ad-4166-9859-70b09549fc2e/d4cfd079-3003-43a6-b22e-8a2ba112ebef/b3769cc0-12dc-4887-acc6-419e3d8f0b1c?guid_cv=10239963-89ad-41
WEBSITE	web.uniroma1.it/sbe
CONTACT INFORMATION	paolo.viotti@uniroma1.it
REGISTRATION	Students should write to civis_openonlinecourses.ari@uniroma1.it indicating the name and code of the course and enclosing a transcript of records.

TITLE: Sustainable transport planning

Faculty of Civil and Industrial Engineering

Internal code

1044026

LANGUAGE(S)	English	**LEVEL OF STUDY**	Master
CREDIT POINTS	12 ECTS	**LIMITED ATTENDANCE**	no
THEMATIC CIVIS AREA(S)	Cities, Territories, Mobility	**OTHER DOMAIN OF STUDY**	**Transport EngineeringTransport Engineering**
PERIOD	I semester	**DURATION**	120

DESCRIPTION:

https://web.uniroma1.it/cdaingtrasporti/transport-networks-and-vehicles-0

PREREQUISITES	https://web.uniroma1.it/cdaingtrasporti/transport-networks-and-vehicles-0
WEBSITE	https://web.uniroma1.it/cdaingtrasporti/
CONTACT INFORMATION	luca.persia@uniroma1.it
REGISTRATION	Students should write to civis_openonlinecourses.ari@uniroma1.it indicating the name and code of the course and enclosing a transcript of records.

TITLE: Railway Engineering

Faculty of Civil and Industrial Engineering

Internal code

1044035

LANGUAGE(S)	English	**LEVEL OF STUDY**	Master
CREDIT POINTS	12 ECTS	**LIMITED ATTENDANCE**	no
THEMATIC CIVIS AREA(S)	Cities, Territories, Mobility	**OTHER DOMAIN OF STUDY**	**Transport EngineeringTransport Engineering**
PERIOD	I semester	**DURATION**	120

DESCRIPTION:

https://web.uniroma1.it/cdaingtrasporti/railway-engineering-0

PREREQUISITES	https://web.uniroma1.it/cdaingtrasporti/railway-engineering-0
WEBSITE	https://web.uniroma1.it/cdaingtrasporti/
CONTACT INFORMATION	stefano.ricci@uniroma1.it
REGISTRATION	Students should write to civis_openonlinecourses.ari@uniroma1.it indicating the name and code of the course and enclosing a transcript of records.

TITLE: Urban and Regional Policy

Faculty of Civil and Industrial Engineering

Internal code

1044015

LANGUAGE(S)	English	**LEVEL OF STUDY**	Master
CREDIT POINTS	6 ECTS	**LIMITED ATTENDANCE**	no
THEMATIC CIVIS AREA(S)	Cities, Territories, Mobility	**OTHER DOMAIN OF STUDY**	**Transport EngineeringTransport Engineering**
PERIOD	I semester	**DURATION**	60

DESCRIPTION:

https://web.uniroma1.it/cdaingtrasporti/urban-and-regional-policy-0

PREREQUISITES	https://web.uniroma1.it/cdaingtrasporti/urban-and-regional-policy-0
WEBSITE	https://web.uniroma1.it/cdaingtrasporti/
CONTACT INFORMATION	mariavittoria.corazza@uniroma1.it
REGISTRATION	Students should write to civis_openonlinecourses.ari@uniroma1.it indicating the name and code of the course and enclosing a transcript of records.

TITLE: Freight Transport and Logistics

Faculty of Civil and Industrial Engineering

Internal code

1044041

LANGUAGE(S)	English	**LEVEL OF STUDY**	Master
CREDIT POINTS	6 ECTS	**LIMITED ATTENDANCE**	no
THEMATIC CIVIS AREA(S)	Cities, Territories, Mobility	**OTHER DOMAIN OF STUDY**	**Transport EngineeringTransport Engineering**
PERIOD	I semester	**DURATION**	60

DESCRIPTION:

https://web.uniroma1.it/cdaingtrasporti/freight-transport-and-logistics-0

PREREQUISITES	https://web.uniroma1.it/cdaingtrasporti/freight-transport-and-logistics-0
WEBSITE	https://web.uniroma1.it/cdaingtrasporti/
CONTACT INFORMATION	luca.rizzetto@uniroma1.it
REGISTRATION	Students should write to civis_openonlinecourses.ari@uniroma1.it indicating the name and code of the course and enclosing a transcript of records.

TITLE: Environmental economics and law

Faculty of Civil and Industrial Engineering

Internal code

10600008

LANGUAGE(S)	English	**LEVEL OF STUDY**	Master
CREDIT POINTS	9 ECTS	**LIMITED ATTENDANCE**	no
THEMATIC CIVIS AREA(S)	Climate, Environment, Energy	**OTHER DOMAIN OF STUDY**	**Ingegneria AmbientaleIngegneria Ambientale**
PERIOD	I semester	**DURATION**	90

DESCRIPTION:

https://corsidilaurea.uniroma1.it/it/view-course-details/2021/31286/20210916103754/eba72de2-f38e-4ecf-a289-59acacdd7f59/ae82703b-3d86-451c-bbd4-1580012a1d9b/e2c2d212-23af-4ce6-8cf4-45a886bfddf6/e271cfc8-88e9-48ef-804b-ed4da34c06c8?guid_cv=ae82703b-3d86-451c-bbd4-1580012a1d9b&current_erogata=eba72de2-f38e-4ecf-a289-59acacdd7f59

PREREQUISITES	https://corsidilaurea.uniroma1.it/it/view-course-details/2021/31286/20210916103754/eba72de2-f38e-4ecf-a289-59acacdd7f59/ae82703b-3d86-451c-bbd4-1580012a1d9b/e2c2d212-23af-4ce6-8cf4-45a886bfddf6/e271cfc8-88e9-48ef-804b-ed4da34c06c8?guid_cv=ae82703b-3d86-45
WEBSITE	https://web.uniroma1.it/cdaingambientale/corsi-di-laurea/magistrale
CONTACT INFORMATION	alessandra.polettini@uniroma1.it
REGISTRATION	Students should write to civis_openonlinecourses.ari@uniroma1.it indicating the name and code of the course and enclosing a transcript of records.

Co-funded by the Erasmus+ Programme of the European Union

TITLE: Gestione dei Rifiuti Solidi

Faculty of Civil and Industrial Engineering

Internal code

N/A

LANGUAGE(S)	Italian	**LEVEL OF STUDY**	Master
CREDIT POINTS	6	**LIMITED ATTENDANCE**	no
THEMATIC CIVIS AREA(S)	Climate, Environment, Energy	**OTHER DOMAIN OF STUDY**	**Ingegneria per l'Ambiente e il TerritorioIngegneria per l'Ambiente e il Territorio**
PERIOD	I semester	**DURATION**	#REF!

DESCRIPTION:

https://corsidilaurea.uniroma1.it/it/view-course-details/2020/30845/20200313105820/c82901e8-ddfa-4fc2-a896-af48071d75ae/9beefd76-4bd1-45fd-a529-bf6f2edee571/1f31b6fe-7ad8-4027-8219-3d739bbb467d/7cc8e5b5-674f-428d-b906-523227cfb31a?guid_cv=9beefd76-4bd1-45fd-a529-bf6f2edee571&current_erogata=c82901e8-ddfa-4fc2-a896-af48071d75ae

PREREQUISITES	https://corsidilaurea.uniroma1.it/it/view-course-details/2020/30845/20200313105820/c82901e8-ddfa-4fc2-a896-af48071d75ae/9beefd76-4bd1-45fd-a529-bf6f2edee571/1f31b6fe-7ad8-4027-8219-3d739bbb467d/7cc8e5b5-674f-428d-b906-523227cfb31a?guid_cv=9beefd76-4bd1-45
WEBSITE	https://web.uniroma1.it/cdaingambientale/
CONTACT INFORMATION	alessandra.polettini@uniroma1.it
REGISTRATION	Students should write to civis_openonlinecourses.ari@uniroma1.it indicating the name and code of the course and enclosing a transcript of records.

TITLE: Geolocation and Navigation

Faculty of Civil and Industrial Engineering

Internal code

10599811

LANGUAGE(S)	English	**LEVEL OF STUDY**	Master
CREDIT POINTS	6 ECTS	**LIMITED ATTENDANCE**	no
THEMATIC CIVIS AREA(S)	Climate, Environment, Energy	**OTHER DOMAIN OF STUDY**	**Ingegneria AmbientaleIngegneria Ambientale**
PERIOD	I semester	**DURATION**	60

DESCRIPTION:

https://web.uniroma1.it/cdaingambientale/corsi-di-laurea/magistrale

PREREQUISITES	https://web.uniroma1.it/cdaingambientale/corsi-di-laurea/magistrale
WEBSITE	https://web.uniroma1.it/cdaingambientale/corsi-di-laurea/magistrale
CONTACT INFORMATION	alessandra.polettini@uniroma1.it
REGISTRATION	Students should write to civis_openonlinecourses.ari@uniroma1.it indicating the name and code of the course and enclosing a transcript of records.

TITLE: Engineering Geology

Faculty of Civil and Industrial Engineering

Internal code

10589219

LANGUAGE(S)	English	**LEVEL OF STUDY**	Master
CREDIT POINTS	9 ECTS	**LIMITED ATTENDANCE**	no
THEMATIC CIVIS AREA(S)	Climate, Environment, Energy	**OTHER DOMAIN OF STUDY**	**Environmental and Sustainable Building EngineeringEnvironmental and Sustainable Building Engineering**
PERIOD	I semester	**DURATION**	90

DESCRIPTION:

https://corsidilaurea.uniroma1.it/it/view-course-details/2021/30425/20210916103754/712f61d5-52eb-426c-89fc-fa74e54c30ca/34400462-5d1c-40f3-b8e2-cd50c278b149/c5d06948-4acc-4812-b372-e535f0a79749/df372c46-0214-4778-a8d7-603ffc3f8f8b?guid_cv=34400462-5d1c-40f3-b8e2-cd50c278b149&current_erogata=712f61d5-52eb-426c-89fc-fa74e54c30ca

PREREQUISITES	https://corsidilaurea.uniroma1.it/it/view-course-details/2021/30425/20210916103754/712f61d5-52eb-426c-89fc-fa74e54c30ca/34400462-5d1c-40f3-b8e2-cd50c278b149/c5d06948-4acc-4812-b372-e535f0a79749/df372c46-0214-4778-a8d7-603ffc3f8f8b?guid_cv=34400462-5d1c-40
WEBSITE	web.uniroma1.it/sbe
CONTACT INFORMATION	guseppe.sappa@uniroma1.it
REGISTRATION	Students should write to civis_openonlinecourses.ari@uniroma1.it indicating the name and code of the course and enclosing a transcript of records.

TITLE: Environmental Engineering

Faculty of Civil and Industrial Engineering

Internal code

10589178

LANGUAGE(S)	English	**LEVEL OF STUDY**	Master
CREDIT POINTS	9 ECTS	**LIMITED ATTENDANCE**	no
THEMATIC CIVIS AREA(S)	Climate, Environment, Energy	**OTHER DOMAIN OF STUDY**	**Environmental and Sustainable Building EngineeringEnvironmental and Sustainable Building Engineering**
PERIOD	I semester	**DURATION**	90

DESCRIPTION:

https://corsidilaurea.uniroma1.it/it/view-course-details/2021/30425/20210916103754/712f61d5-52eb-426c-89fc-fa74e54c30ca/34400462-5d1c-40f3-b8e2-cd50c278b149/d156091b-1a8d-4674-ba66-497e64563728/578ab85f-e0a1-4af6-870f-2bf952cde7be?guid_cv=34400462-5d1c-40f3-b8e2-cd50c278b149&current_erogata=712f61d5-52eb-426c-89fc-fa74e54c30ca

PREREQUISITES	
WEBSITE	web.uniroma1.it/sbe
CONTACT INFORMATION	agostina.chiavola@uniroma1.it
REGISTRATION	Students should write to civis_openonlinecourses.ari@uniroma1.it indicating the name and code of the course and enclosing a transcript of records.

TITLE: Environmental geophysics

Faculty of Civil and Industrial Engineering

Internal code

10599941

LANGUAGE(S)	English	**LEVEL OF STUDY**	Master
CREDIT POINTS	9 ECTS	**LIMITED ATTENDANCE**	no
THEMATIC CIVIS AREA(S)	Climate, Environment, Energy	**OTHER DOMAIN OF STUDY**	**Ingegneria AmbientaleIngegneria Ambientale**
PERIOD	I semester	**DURATION**	90

DESCRIPTION:

https://web.uniroma1.it/cdaingambientale/corsi-di-laurea/magistrale

PREREQUISITES	https://web.uniroma1.it/cdaingambientale/corsi-di-laurea/magistrale
WEBSITE	https://web.uniroma1.it/cdaingambientale/corsi-di-laurea/magistrale
CONTACT INFORMATION	alessandra.polettini@uniroma1.it
REGISTRATION	Students should write to civis_openonlinecourses.ari@uniroma1.it indicating the name and code of the course and enclosing a transcript of records.

TITLE: Sustainable development and planning

Faculty of Civil and Industrial Engineering

Internal code

10599944

LANGUAGE(S)	English	**LEVEL OF STUDY**	Master
CREDIT POINTS	9 ECTS	**LIMITED ATTENDANCE**	no
THEMATIC CIVIS AREA(S)	Climate, Environment, Energy	**OTHER DOMAIN OF STUDY**	**Ingegneria AmbientaleIngegneria Ambientale**
PERIOD	I semester	**DURATION**	90

DESCRIPTION:

https://corsidilaurea.uniroma1.it/it/view-course-details/2021/31286/20210916103754/eba72de2-f38e-4ecf-a289-59acacdd7f59/ae82703b-3d86-451c-bbd4-1580012a1d9b/e2c2d212-23af-4ce6-8cf4-45a886bfddf6/9673a497-afd0-4a5d-a360-3d24fc4a3055?guid_cv=ae82703b-3d86-451c-bbd4-1580012a1d9b&current_erogata=eba72de2-f38e-4ecf-a289-59acacdd7f59

PREREQUISITES	https://corsidilaurea.uniroma1.it/it/view-course-details/2021/31286/20210916103754/eba72de2-f38e-4ecf-a289-59acacdd7f59/ae82703b-3d86-451c-bbd4-1580012a1d9b/e2c2d212-23af-4ce6-8cf4-45a886bfddf6/9673a497-afd0-4a5d-a360-3d24fc4a3055?guid_cv=ae82703b-3d86-45
WEBSITE	https://web.uniroma1.it/cdaingambientale/corsi-di-laurea/magistrale
CONTACT INFORMATION	carlo.cellamare@uniroma1.it
REGISTRATION	Students should write to civis_openonlinecourses.ari@uniroma1.it indicating the name and code of the course and enclosing a transcript of records.

TITLE: Urban mining and recycling of materials

Faculty of Civil and Industrial Engineering

Internal code

10599947

LANGUAGE(S)	English	**LEVEL OF STUDY**	Master
CREDIT POINTS	9 ECTS	**LIMITED ATTENDANCE**	no
THEMATIC CIVIS AREA(S)	Climate, Environment, Energy	**OTHER DOMAIN OF STUDY**	**Ingegneria AmbientaleIngegneria Ambientale**
PERIOD	I semester	**DURATION**	90

DESCRIPTION:

https://web.uniroma1.it/cdaingambientale/corsi-di-laurea/magistrale

PREREQUISITES	https://web.uniroma1.it/cdaingambientale/corsi-di-laurea/magistrale
WEBSITE	https://web.uniroma1.it/cdaingambientale/corsi-di-laurea/magistrale
CONTACT INFORMATION	alessandra.polettini@uniroma1.it
REGISTRATION	Students should write to civis_openonlinecourses.ari@uniroma1.it indicating the name and code of the course and enclosing a transcript of records.

TITLE: Impianti di Trattamento dei Rifiuti Solidi

Faculty of Civil and Industrial Engineering

Internal code

1017803

LANGUAGE(S)	Italian	**LEVEL OF STUDY**	Master
CREDIT POINTS	9	**LIMITED ATTENDANCE**	no
THEMATIC CIVIS AREA(S)	Climate, Environment, Energy	**OTHER DOMAIN OF STUDY**	**Ingegneria per l'Ambiente e il TerritorioIngegneria per l'Ambiente e il Territorio**
PERIOD	I semester	**DURATION**	90

DESCRIPTION:

https://corsidilaurea.uniroma1.it/it/view-course-details/2020/30845/20200313105820/c82901e8-ddfa-4fc2-a896-af48071d75ae/9beefd76-4bd1-45fd-a529-bf6f2edee571/1f31b6fe-7ad8-4027-8219-3d739bbb467d/c4cf867b-2cea-48af-ab5f-b512f037615e?guid_cv=9beefd76-4bd1-45fd-a529-bf6f2edee571&current_erogata=c82901e8-ddfa-4fc2-a896-af48071d75ae

PREREQUISITES	https://corsidilaurea.uniroma1.it/it/view-course-details/2020/30845/20200313105820/c82901e8-ddfa-4fc2-a896-af48071d75ae/9beefd76-4bd1-45fd-a529-bf6f2edee571/1f31b6fe-7ad8-4027-8219-3d739bbb467d/c4cf867b-2cea-48af-ab5f-b512f037615e?guid_cv=9beefd76-4bd1-45
WEBSITE	https://web.uniroma1.it/cdaingambientale/
CONTACT INFORMATION	alessandra.polettini@uniroma1.it
REGISTRATION	Students should write to civis_openonlinecourses.ari@uniroma1.it indicating the name and code of the course and enclosing a transcript of records.

TITLE: Traffic Engineering and ITS

Faculty of Civil and Industrial Engineering

Internal code

10589554

LANGUAGE(S)	English	**LEVEL OF STUDY**	Master
CREDIT POINTS	12 ECTS	**LIMITED ATTENDANCE**	no
THEMATIC CIVIS AREA(S)	Cities, Territories, Mobility	**OTHER DOMAIN OF STUDY**	**Transport EngineeringTransport Engineering**
PERIOD	I+II semester	**DURATION**	120

DESCRIPTION:

https://web.uniroma1.it/cdaingtrasporti/traffic-engineering-and-its-0

PREREQUISITES	https://web.uniroma1.it/cdaingtrasporti/traffic-engineering-and-its-0
WEBSITE	https://web.uniroma1.it/cdaingtrasporti/
CONTACT INFORMATION	gaetano.fusco@uniroma1.it
REGISTRATION	Students should write to civis_openonlinecourses.ari@uniroma1.it indicating the name and code of the course and enclosing a transcript of records.

TITLE: Advanced Methods in Mechanical Design

Faculty of Civil and Industrial Engineering

Internal code

1047501

LANGUAGE(S)	English	**LEVEL OF STUDY**	Master
CREDIT POINTS	6	**LIMITED ATTENDANCE**	no
THEMATIC CIVIS AREA(S)	Digital & technological transformation	**OTHER DOMAIN OF STUDY**	**Mechanical EngineeringMechanical Engineering**
PERIOD	II semester	**DURATION**	60

DESCRIPTION:

https://corsidilaurea.uniroma1.it/it/view-course-details/2021/30844/20210916103754/ca18c825-6838-4f26-b922-0f53034f67c0/8db393ad-fb18-44d7-bc9a-c28cddbdb6b7/eaf855c7-666d-4734-a3d4-3d547081ea89/e961ae88-190e-403c-90fd-ecbe2dc4ba4a?guid_cv=8db393ad-fb18-44d7-bc9a-c28cddbdb6b7&current_erogata=ca18c825-6838-4f26-b922-0f53034f67c0

PREREQUISITES	https://corsidilaurea.uniroma1.it/it/view-course-details/2021/30844/20210916103754/ca18c825-6838-4f26-b922-0f53034f67c0/8db393ad-fb18-44d7-bc9a-c28cddbdb6b7/eaf855c7-666d-4734-a3d4-3d547081ea89/e961ae88-190e-403c-90fd-ecbe2dc4ba4a?guid_cv=8db393ad-fb18-44
WEBSITE	www.ingmecc.uniroma1.it
CONTACT INFORMATION	francesca.campana@uniroma1.it
REGISTRATION	Students should write to civis_openonlinecourses.ari@uniroma1.it indicating the name and code of the course and enclosing a transcript of records.

TITLE: Diagnostica delle Macchine e dei Sistemi Energetici

Faculty of Civil and Industrial Engineering

Internal code

10592721

LANGUAGE(S)	English	**LEVEL OF STUDY**	Master
CREDIT POINTS	6	**LIMITED ATTENDANCE**	no
THEMATIC CIVIS AREA(S)	Climate, Environment, Energy	**OTHER DOMAIN OF STUDY**	**Mechanical EngineeringMechanical Engineering**
PERIOD	II semester	**DURATION**	60

DESCRIPTION:

https://corsidilaurea.uniroma1.it/it/view-course-details/2021/30844/20210916103754/ca18c825-6838-4f26-b922-0f53034f67c0/2373c9a8-0832-42a8-9dd2-fa8419cfdba3/ade3cb2a-e976-44df-b3ab-da06876eb5df/46668f30-c195-437b-8ebe-9c2a57848b41?guid_cv=2373c9a8-0832-42a8-9dd2-fa8419cfdba3&current_erogata=ca18c825-6838-4f26-b922-0f53034f67c0

PREREQUISITES	https://corsidilaurea.uniroma1.it/it/view-course-details/2021/30844/20210916103754/ca18c825-6838-4f26-b922-0f53034f67c0/2373c9a8-0832-42a8-9dd2-fa8419cfdba3/ade3cb2a-e976-44df-b3ab-da06876eb5df/46668f30-c195-437b-8ebe-9c2a57848b41?guid_cv=2373c9a8-0832-42
WEBSITE	www.ingmecc.uniroma1.it
CONTACT INFORMATION	alessandro.corsini@uniroma1.it
REGISTRATION	Students should write to civis_openonlinecourses.ari@uniroma1.it indicating the name and code of the course and enclosing a transcript of records.

TITLE: Advanced Energy Conversion Systems

Faculty of Civil and Industrial Engineering

Internal code

1051502

LANGUAGE(S)	English	**LEVEL OF STUDY**	Master
CREDIT POINTS	9	**LIMITED ATTENDANCE**	no
THEMATIC CIVIS AREA(S)	Climate, Environment, Energy	**OTHER DOMAIN OF STUDY**	**Mechanical EngineeringMechanical Engineering**
PERIOD	II semester	**DURATION**	90

DESCRIPTION:

https://corsidilaurea.uniroma1.it/it/view-course-details/2021/30844/20210916103754/ca18c825-6838-4f26-b922-0f53034f67c0/2373c9a8-0832-42a8-9dd2-fa8419cfdba3/ade3cb2a-e976-44df-b3ab-da06876eb5df/ca869781-6ff1-4883-a549-8d3707436ec6?guid_cv=2373c9a8-0832-42a8-9dd2-fa8419cfdba3&current_erogata=ca18c825-6838-4f26-b922-0f53034f67c0

PREREQUISITES	https://corsidilaurea.uniroma1.it/it/view-course-details/2021/30844/20210916103754/ca18c825-6838-4f26-b922-0f53034f67c0/2373c9a8-0832-42a8-9dd2-fa8419cfdba3/ade3cb2a-e976-44df-b3ab-da06876eb5df/ca869781-6ff1-4883-a549-8d3707436ec6?guid_cv=2373c9a8-0832-42
WEBSITE	www.ingmecc.uniroma1.it
CONTACT INFORMATION	alessandro.corsini@uniroma1.it
REGISTRATION	Students should write to civis_openonlinecourses.ari@uniroma1.it indicating the name and code of the course and enclosing a transcript of records.

TITLE: Space Missions and systems

Faculty of Civil and Industrial Engineering

Internal code

1051386

LANGUAGE(S)	English	**LEVEL OF STUDY**	Master
CREDIT POINTS	6	**LIMITED ATTENDANCE**	no
THEMATIC CIVIS AREA(S)	Other domain of study	**OTHER DOMAIN OF STUDY**	**Ingegneria Spaziale e AstronauticaIngegneria Spaziale e Astronautica**
PERIOD	II semester	**DURATION**	60

DESCRIPTION:

Fornire le conoscenze di base sul progetto di missioni spaziali e sui sistemi di navigazione e di controllo d'assetto di satelliti e sonde spaziali.

Capacità di dimensionare e progettare semplici sistemi di determinazione e di controllo dell'orbita e dell'assetto di satelliti e sonde spaziali.

Conoscenza dello sviluppo e delle operazioni di missioni spaziali.

PREREQUISITES	
WEBSITE	www.ingaero.uniroma1.it
CONTACT INFORMATION	luciano.iess@uniroma1.it
REGISTRATION	Students should write to civis_openonlinecourses.ari@uniroma1.it indicating the name and code of the course and enclosing a transcript of records.

TITLE: Impianti di Trattamento delle Acque

Faculty of Civil and Industrial Engineering

Internal code

1017651

LANGUAGE(S)	Italian	**LEVEL OF STUDY**	Master
CREDIT POINTS	9	**LIMITED ATTENDANCE**	no
THEMATIC CIVIS AREA(S)	Climate, Environment, Energy	**OTHER DOMAIN OF STUDY**	**Ingegneria per l'Ambiente e il TerritorioIngegneria per l'Ambiente e il Territorio**
PERIOD	II semester	**DURATION**	90

DESCRIPTION:

https://corsidilaurea.uniroma1.it/it/view-course-details/2020/30845/20200313105820/c82901e8-ddfa-4fc2-a896-af48071d75ae/9beefd76-4bd1-45fd-a529-bf6f2edee571/1c61205d-0c79-436a-9b77-4ec07d015b95/ab9ec2ae-7fda-4c15-9329-c1e70b15eb86?guid_cv=9beefd76-4bd1-45fd-a529-bf6f2edee571&current_erogata=c82901e8-ddfa-4fc2-a896-af48071d75ae

PREREQUISITES	https://corsidilaurea.uniroma1.it/it/view-course-details/2020/30845/20200313105820/c82901e8-ddfa-4fc2-a896-af48071d75ae/9beefd76-4bd1-45fd-a529-bf6f2edee571/1c61205d-0c79-436a-9b77-4ec07d015b95/ab9ec2ae-7fda-4c15-9329-c1e70b15eb86?guid_cv=9beefd76-4bd1-45
WEBSITE	https://web.uniroma1.it/cdaingambientale/
CONTACT INFORMATION	agostina.chiavola@uniroma1.it
REGISTRATION	Students should write to civis_openonlinecourses.ari@uniroma1.it indicating the name and code of the course and enclosing a transcript of records.

TITLE: Vehicle system dynamics and mechatronics

Faculty of Civil and Industrial Engineering

Internal code

10592761

LANGUAGE(S)	English	**LEVEL OF STUDY**	Master
CREDIT POINTS	6	**LIMITED ATTENDANCE**	no
THEMATIC CIVIS AREA(S)	Digital & technological transformation	**OTHER DOMAIN OF STUDY**	**Mechanical EngineeringMechanical Engineering**
PERIOD	II semester	**DURATION**	60

DESCRIPTION:

https://corsidilaurea.uniroma1.it/it/view-course-details/2021/30844/20210916103754/ca18c825-6838-4f26-b922-0f53034f67c0/9cbd7c34-3df8-4175-810e-7c96f9e407c6/eebe8abe-b71c-4773-b3c2-6bba1551e8b0/fb5f5fe8-efe2-493f-b1f4-f63c411e8408?guid_cv=9cbd7c34-3df8-4175-810e-7c96f9e407c6&current_erogata=ca18c825-6838-4f26-b922-0f53034f67c0

PREREQUISITES	https://corsidilaurea.uniroma1.it/it/view-course-details/2021/30844/20210916103754/ca18c825-6838-4f26-b922-0f53034f67c0/9cbd7c34-3df8-4175-810e-7c96f9e407c6/eebe8abe-b71c-4773-b3c2-6bba1551e8b0/fb5f5fe8-efe2-493f-b1f4-f63c411e8408?guid_cv=9cbd7c34-3df8-41
WEBSITE	www.ingmecc.uniroma1.it
CONTACT INFORMATION	antonio.carcaterra@uniroma1.it
REGISTRATION	Students should write to civis_openonlinecourses.ari@uniroma1.it indicating the name and code of the course and enclosing a transcript of records.

TITLE: Smart factory

Faculty of Civil and Industrial Engineering

Internal code

1056573

LANGUAGE(S)	Italian	**LEVEL OF STUDY**	Master
CREDIT POINTS	6	**LIMITED ATTENDANCE**	no
THEMATIC CIVIS AREA(S)	Digital & technological transformation	**OTHER DOMAIN OF STUDY**	**Mechanical EngineeringMechanical Engineering**
PERIOD	II semester	**DURATION**	60

DESCRIPTION:

https://corsidilaurea.uniroma1.it/it/view-course-details/2021/30844/20210916103754/ca18c825-6838-4f26-b922-0f53034f67c0/9cbd7c34-3df8-4175-810e-7c96f9e407c6/eebe8abe-b71c-4773-b3c2-6bba1551e8b0/f106f011-0c23-40c7-a655-b24f080341ed?guid_cv=9cbd7c34-3df8-4175-810e-7c96f9e407c6&current_erogata=ca18c825-6838-4f26-b922-0f53034f67c0

PREREQUISITES	https://corsidilaurea.uniroma1.it/it/view-course-details/2021/30844/20210916103754/ca18c825-6838-4f26-b922-0f53034f67c0/9cbd7c34-3df8-4175-810e-7c96f9e407c6/eebe8abe-b71c-4773-b3c2-6bba1551e8b0/f106f011-0c23-40c7-a655-b24f080341ed?guid_cv=9cbd7c34-3df8-41
WEBSITE	www.ingmecc.uniroma1.it
CONTACT INFORMATION	francesco.costantino@uniroma1.it
REGISTRATION	Students should write to civis_openonlinecourses.ari@uniroma1.it indicating the name and code of the course and enclosing a transcript of records.

TITLE: Transport Policies

Faculty of Civil and Industrial Engineering

Internal code

10589585

LANGUAGE(S)	English	**LEVEL OF STUDY**	Master
CREDIT POINTS	6 ECTS	**LIMITED ATTENDANCE**	no
THEMATIC CIVIS AREA(S)	Cities, Territories, Mobility	**OTHER DOMAIN OF STUDY**	**Transport EngineeringTransport Engineering**
PERIOD	II semester	**DURATION**	60

DESCRIPTION:

https://web.uniroma1.it/cdaingtrasporti/transport-policies-and-terminal-design-0

PREREQUISITES	https://web.uniroma1.it/cdaingtrasporti/transport-policies-and-terminal-design-0
WEBSITE	https://web.uniroma1.it/cdaingtrasporti/
CONTACT INFORMATION	chiara.colombaroni@uniroma1.it
REGISTRATION	Students should write to civis_openonlinecourses.ari@uniroma1.it indicating the name and code of the course and enclosing a transcript of records.

TITLE: Maritime Constructions

Faculty of Civil and Industrial Engineering

Internal code

1044042

LANGUAGE(S)	English	**LEVEL OF STUDY**	Master
CREDIT POINTS	6 ECTS	**LIMITED ATTENDANCE**	no
THEMATIC CIVIS AREA(S)	Cities, Territories, Mobility	**OTHER DOMAIN OF STUDY**	**Transport EngineeringTransport Engineering**
PERIOD	II semester	**DURATION**	60

DESCRIPTION:

https://web.uniroma1.it/cdaingtrasporti/maritime-constructions-0

PREREQUISITES	https://web.uniroma1.it/cdaingtrasporti/maritime-constructions-0
WEBSITE	https://web.uniroma1.it/cdaingtrasporti/
CONTACT INFORMATION	paolo.degirolamo@uniroma1.it
REGISTRATION	Students should write to civis_openonlinecourses.ari@uniroma1.it indicating the name and code of the course and enclosing a transcript of records.

TITLE: Transport Infrastructures

Faculty of Civil and Industrial Engineering

Internal code

1044040

LANGUAGE(S)	English	**LEVEL OF STUDY**	Master
CREDIT POINTS	6 ECTS	**LIMITED ATTENDANCE**	no
THEMATIC CIVIS AREA(S)	Cities, Territories, Mobility	**OTHER DOMAIN OF STUDY**	**Transport EngineeringTransport Engineering**
PERIOD	II semester	**DURATION**	60

DESCRIPTION:

https://web.uniroma1.it/cdaingtrasporti/transport-infrastructures-0

PREREQUISITES	https://web.uniroma1.it/cdaingtrasporti/transport-infrastructures-0
WEBSITE	https://web.uniroma1.it/cdaingtrasporti/
CONTACT INFORMATION	paola.dimascio@uniroma1.it
REGISTRATION	Students should write to civis_openonlinecourses.ari@uniroma1.it indicating the name and code of the course and enclosing a transcript of records.

TITLE: Road Safety

Faculty of Civil and Industrial Engineering

Internal code

10589572

LANGUAGE(S)	English	**LEVEL OF STUDY**	Master
CREDIT POINTS	6 ECTS	**LIMITED ATTENDANCE**	no
THEMATIC CIVIS AREA(S)	Cities, Territories, Mobility	**OTHER DOMAIN OF STUDY**	**Transport EngineeringTransport Engineering**
PERIOD	II semester	**DURATION**	60

DESCRIPTION:

https://web.uniroma1.it/cdaingtrasporti/road-safety-and-externalities-0

PREREQUISITES	https://web.uniroma1.it/cdaingtrasporti/road-safety-and-externalities-0
WEBSITE	https://web.uniroma1.it/cdaingtrasporti/
CONTACT INFORMATION	davideshingo.usami@uniroma1.it
REGISTRATION	Students should write to civis_openonlinecourses.ari@uniroma1.it indicating the name and code of the course and enclosing a transcript of records.

TITLE: Maritime Transport

Faculty of Civil and Industrial Engineering

Internal code

1044038

LANGUAGE(S)	English	**LEVEL OF STUDY**	Master
CREDIT POINTS	6 ECTS	**LIMITED ATTENDANCE**	no
THEMATIC CIVIS AREA(S)	Cities, Territories, Mobility	**OTHER DOMAIN OF STUDY**	**Transport EngineeringTransport Engineering**
PERIOD	II semester	**DURATION**	60

DESCRIPTION:

https://web.uniroma1.it/cdaingtrasporti/maritime-transport-0

PREREQUISITES	https://web.uniroma1.it/cdaingtrasporti/maritime-transport-0
WEBSITE	https://web.uniroma1.it/cdaingtrasporti/
CONTACT INFORMATION	stefano.ricci@uniroma1.it
REGISTRATION	Students should write to civis_openonlinecourses.ari@uniroma1.it indicating the name and code of the course and enclosing a transcript of records.

TITLE: Air Transport

Faculty of Civil and Industrial Engineering

Internal code

1044037

LANGUAGE(S)	English	**LEVEL OF STUDY**	Master
CREDIT POINTS	6 ECTS	**LIMITED ATTENDANCE**	no
THEMATIC CIVIS AREA(S)	Cities, Territories, Mobility	**OTHER DOMAIN OF STUDY**	**Transport EngineeringTransport Engineering**
PERIOD	II semester	**DURATION**	60

DESCRIPTION:

https://web.uniroma1.it/cdaingtrasporti/air-transport

PREREQUISITES	https://web.uniroma1.it/cdaingtrasporti/air-transport
WEBSITE	https://web.uniroma1.it/cdaingtrasporti/
CONTACT INFORMATION	mariavittoria.corazza@uniroma1.it
REGISTRATION	Students should write to civis_openonlinecourses.ari@uniroma1.it indicating the name and code of the course and enclosing a transcript of records.

TITLE: Transport Modeling and Planning

Faculty of Civil and Industrial Engineering

Internal code

1044022

LANGUAGE(S)	English	**LEVEL OF STUDY**	Master
CREDIT POINTS	12 ECTS	**LIMITED ATTENDANCE**	no
THEMATIC CIVIS AREA(S)	Cities, Territories, Mobility	**OTHER DOMAIN OF STUDY**	**Transport EngineeringTransport Engineering**
PERIOD	II semester	**DURATION**	120

DESCRIPTION:

https://web.uniroma1.it/cdaingtrasporti/transport-modelling-and-planning-0

PREREQUISITES	https://web.uniroma1.it/cdaingtrasporti/transport-modelling-and-planning-0
WEBSITE	https://web.uniroma1.it/cdaingtrasporti/
CONTACT INFORMATION	guido.gentile@uniroma1.it
REGISTRATION	Students should write to civis_openonlinecourses.ari@uniroma1.it indicating the name and code of the course and enclosing a transcript of records.

TITLE: Assessment and sustainable use of environmental resources

Faculty of Civil and Industrial Engineering

Internal code
10599950

LANGUAGE(S)	English	**LEVEL OF STUDY**	Master
CREDIT POINTS	6 ECTS	**LIMITED ATTENDANCE**	no
THEMATIC CIVIS AREA(S)	Climate, Environment, Energy	**OTHER DOMAIN OF STUDY**	**Ingegneria AmbientaleIngegneria Ambientale**
PERIOD	II semester	**DURATION**	60

DESCRIPTION:

https://web.uniroma1.it/cdaingambientale/corsi-di-laurea/magistrale

PREREQUISITES	https://web.uniroma1.it/cdaingambientale/corsi-di-laurea/magistrale
WEBSITE	https://web.uniroma1.it/cdaingambientale/corsi-di-laurea/magistrale
CONTACT INFORMATION	alessandra.polettini@uniroma1.it
REGISTRATION	Students should write to civis_openonlinecourses.ari@uniroma1.it indicating the name and code of the course and enclosing a transcript of records.

TITLE: Remote sensing and Geo Big Data

Faculty of Civil and Industrial Engineering

Internal code

10599940

LANGUAGE(S)	English	**LEVEL OF STUDY**	Master
CREDIT POINTS	9 ECTS	**LIMITED ATTENDANCE**	no
THEMATIC CIVIS AREA(S)	Climate, Environment, Energy	**OTHER DOMAIN OF STUDY**	**Ingegneria per l'Ambiente e il TerritorioIngegneria per l'Ambiente e il Territorio**
PERIOD	II semester	**DURATION**	90

DESCRIPTION:

https://corsidilaurea.uniroma1.it/it/view-course-details/2021/31286/20210916103754/eba72de2-f38e-4ecf-a289-59acacdd7f59/ae82703b-3d86-451c-bbd4-1580012a1d9b/159e3814-aa94-499d-84e6-2abbbc9ae4c9/894e25ad-417b-4de7-bcab-9f78b8e704f8?guid_cv=ae82703b-3d86-451c-bbd4-1580012a1d9b&current_erogata=eba72de2-f38e-4ecf-a289-59acacdd7f59

PREREQUISITES	https://corsidilaurea.uniroma1.it/it/view-course-details/2021/31286/20210916103754/eba72de2-f38e-4ecf-a289-59acacdd7f59/ae82703b-3d86-451c-bbd4-1580012a1d9b/159e3814-aa94-499d-84e6-2abbbc9ae4c9/894e25ad-417b-4de7-bcab-9f78b8e704f8?guid_cv=ae82703b-3d86-45
WEBSITE	https://web.uniroma1.it/cdaingambientale/
CONTACT INFORMATION	valerio.baiocchi@uniroma1.it
REGISTRATION	Students should write to civis_openonlinecourses.ari@uniroma1.it indicating the name and code of the course and enclosing a transcript of records.

TITLE: Groundwater management and conservation

Faculty of Civil and Industrial Engineering

Internal code
10599949

LANGUAGE(S)	English	**LEVEL OF STUDY**	Master
CREDIT POINTS	6 ECTS	**LIMITED ATTENDANCE**	no
THEMATIC CIVIS AREA(S)	Climate, Environment, Energy	**OTHER DOMAIN OF STUDY**	**Ingegneria AmbientaleIngegneria Ambientale**
PERIOD	II semester	**DURATION**	60

DESCRIPTION:

https://web.uniroma1.it/cdaingambientale/corsi-di-laurea/magistrale

PREREQUISITES	https://web.uniroma1.it/cdaingambientale/corsi-di-laurea/magistrale
WEBSITE	https://web.uniroma1.it/cdaingambientale/corsi-di-laurea/magistrale
CONTACT INFORMATION	alessandra.polettini@uniroma1.it
REGISTRATION	Students should write to civis_openonlinecourses.ari@uniroma1.it indicating the name and code of the course and enclosing a transcript of records.

TITLE: Coastal engineering

Faculty of Civil and Industrial Engineering

Internal code

10599894

LANGUAGE(S)	English	**LEVEL OF STUDY**	Master
CREDIT POINTS	6 ECTS	**LIMITED ATTENDANCE**	no
THEMATIC CIVIS AREA(S)	Climate, Environment, Energy	**OTHER DOMAIN OF STUDY**	**Ingegneria AmbientaleIngegneria Ambientale**
PERIOD	II semester	**DURATION**	60

DESCRIPTION:

https://web.uniroma1.it/cdaingambientale/corsi-di-laurea/magistrale

PREREQUISITES	https://web.uniroma1.it/cdaingambientale/corsi-di-laurea/magistrale
WEBSITE	https://web.uniroma1.it/cdaingambientale/corsi-di-laurea/magistrale
CONTACT INFORMATION	alessandra.polettini@uniroma1.it
REGISTRATION	Students should write to civis_openonlinecourses.ari@uniroma1.it indicating the name and code of the course and enclosing a transcript of records.

TITLE: Modelling of Environmental Pollution

Faculty of Civil and Industrial Engineering

Internal code

10600009

LANGUAGE(S)	English	**LEVEL OF STUDY**	Master
CREDIT POINTS	6 ECTS	**LIMITED ATTENDANCE**	no
THEMATIC CIVIS AREA(S)	Climate, Environment, Energy	**OTHER DOMAIN OF STUDY**	**Ingegneria AmbientaleIngegneria Ambientale**
PERIOD	II semester	**DURATION**	60

DESCRIPTION:

https://web.uniroma1.it/cdaingambientale/corsi-di-laurea/magistrale

PREREQUISITES	https://web.uniroma1.it/cdaingambientale/corsi-di-laurea/magistrale
WEBSITE	https://web.uniroma1.it/cdaingambientale/corsi-di-laurea/magistrale
CONTACT INFORMATION	alessandra.polettini@uniroma1.it
REGISTRATION	Students should write to civis_openonlinecourses.ari@uniroma1.it indicating the name and code of the course and enclosing a transcript of records.

TITLE: Policies and actions for climate change mitigation

Faculty of Civil and Industrial Engineering

Internal code

10599948

LANGUAGE(S)	English	**LEVEL OF STUDY**	Master
CREDIT POINTS	6 ECTS	**LIMITED ATTENDANCE**	no
THEMATIC CIVIS AREA(S)	Climate, Environment, Energy	**OTHER DOMAIN OF STUDY**	**Ingegneria AmbientaleIngegneria Ambientale**
PERIOD	II semester	**DURATION**	60

DESCRIPTION:

https://web.uniroma1.it/cdaingambientale/corsi-di-laurea/magistrale

PREREQUISITES	https://web.uniroma1.it/cdaingambientale/corsi-di-laurea/magistrale
WEBSITE	https://web.uniroma1.it/cdaingambientale/corsi-di-laurea/magistrale
CONTACT INFORMATION	alessandra.polettini@uniroma1.it
REGISTRATION	Students should write to civis_openonlinecourses.ari@uniroma1.it indicating the name and code of the course and enclosing a transcript of records.

TITLE: Renewable energy

Faculty of Civil and Industrial Engineering

Internal code
10599943

LANGUAGE(S)	English	**LEVEL OF STUDY**	Master
CREDIT POINTS	6 ECTS	**LIMITED ATTENDANCE**	no
THEMATIC CIVIS AREA(S)	Climate, Environment, Energy	**OTHER DOMAIN OF STUDY**	**Ingegneria AmbientaleIngegneria Ambientale**
PERIOD	II semester	**DURATION**	60

DESCRIPTION:

https://web.uniroma1.it/cdaingambientale/corsi-di-laurea/magistrale

PREREQUISITES	https://web.uniroma1.it/cdaingambientale/corsi-di-laurea/magistrale
WEBSITE	https://web.uniroma1.it/cdaingambientale/corsi-di-laurea/magistrale
CONTACT INFORMATION	alessandra.polettini@uniroma1.it
REGISTRATION	Students should write to civis_openonlinecourses.ari@uniroma1.it indicating the name and code of the course and enclosing a transcript of records.

TITLE: Hydraulic risk adaptation and mitigation measures

Faculty of Civil and Industrial Engineering

Internal code

10599937

LANGUAGE(S)	English	**LEVEL OF STUDY**	Master
CREDIT POINTS	9 ECTS	**LIMITED ATTENDANCE**	no
THEMATIC CIVIS AREA(S)	Climate, Environment, Energy	**OTHER DOMAIN OF STUDY**	**Ingegneria AmbientaleIngegneria Ambientale**
PERIOD	II semester	**DURATION**	90

DESCRIPTION:

https://corsidilaurea.uniroma1.it/it/view-course-details/2021/31286/20210916103754/eba72de2-f38e-4ecf-a289-59acacdd7f59/ae82703b-3d86-451c-bbd4-1580012a1d9b/159e3814-aa94-499d-84e6-2abbbc9ae4c9/2de07847-897c-4f0c-9f9b-f2e15e452ad1?guid_cv=ae82703b-3d86-451c-bbd4-1580012a1d9b&current_erogata=eba72de2-f38e-4ecf-a289-59acacdd7f59

PREREQUISITES	https://corsidilaurea.uniroma1.it/it/view-course-details/2021/31286/20210916103754/eba72de2-f38e-4ecf-a289-59acacdd7f59/ae82703b-3d86-451c-bbd4-1580012a1d9b/159e3814-aa94-499d-84e6-2abbbc9ae4c9/2de07847-897c-4f0c-9f9b-f2e15e452ad1?guid_cv=ae82703b-3d86-45
WEBSITE	https://web.uniroma1.it/cdaingambientale/corsi-di-laurea/magistrale
CONTACT INFORMATION	francesco.napolitano@uniroma1.it
REGISTRATION	Students should write to civis_openonlinecourses.ari@uniroma1.it indicating the name and code of the course and enclosing a transcript of records.

TITLE: Landslides and slope engineering

Faculty of Civil and Industrial Engineering

Internal code

10599945

LANGUAGE(S)	English	**LEVEL OF STUDY**	Master
CREDIT POINTS	6 ECTS	**LIMITED ATTENDANCE**	no
THEMATIC CIVIS AREA(S)	Climate, Environment, Energy	**OTHER DOMAIN OF STUDY**	**Ingegneria AmbientaleIngegneria Ambientale**
PERIOD	II semester	**DURATION**	60

DESCRIPTION:

https://corsidilaurea.uniroma1.it/it/view-course-details/2021/31286/20210916103754/eba72de2-f38e-4ecf-a289-59acacdd7f59/ae82703b-3d86-451c-bbd4-1580012a1d9b/159e3814-aa94-499d-84e6-2abbbc9ae4c9/9778b064-a28a-4998-82f1-f2efe033fb5d?guid_cv=ae82703b-3d86-451c-bbd4-1580012a1d9b&current_erogata=eba72de2-f38e-4ecf-a289-59acacdd7f59

PREREQUISITES	https://corsidilaurea.uniroma1.it/it/view-course-details/2021/31286/20210916103754/eba72de2-f38e-4ecf-a289-59acacdd7f59/ae82703b-3d86-451c-bbd4-1580012a1d9b/159e3814-aa94-499d-84e6-2abbbc9ae4c9/9778b064-a28a-4998-82f1-f2efe033fb5d?guid_cv=ae82703b-3d86-45
WEBSITE	https://web.uniroma1.it/cdaingambientale/corsi-di-laurea/magistrale
CONTACT INFORMATION	angelo.amorosi@uniroma1.it
REGISTRATION	Students should write to civis_openonlinecourses.ari@uniroma1.it indicating the name and code of the course and enclosing a transcript of records.

TITLE: Formal Methods in Software Development

Faculty of I3S

Internal code

1047626

LANGUAGE(S)	English	**LEVEL OF STUDY**	Master
CREDIT POINTS	6	**LIMITED ATTENDANCE**	No
THEMATIC CIVIS AREA(S)	Digital & technological transformation	**OTHER DOMAIN OF STUDY**	**Computer ScienceComputer Science**
PERIOD	I sem	**DURATION**	60

DESCRIPTION:

General goals: The course is aimed to the acquisition of logical and modeling knowledge needed to verify complex hardware/software systems (model checking).

Specific goals - Knowledge and understanding: At the end of the course, students will have full understanding of the presented modeling tools (model checkers).

Apply knowledge and understanding: Students will be able to use the tools and the techniques presented during the course, but also to deepen the study independently by consulting other texts dedicated to the subject and scientific material that concerns it.

Critical and judgmental skills: The acquired knowledge will allow students to face the applications proposed in other teachings and to face the problems that will be proposed in the working career in terms of modeling systems.

Communication skills: Students are stimulated to expose and communicate experiences in the circle of their colleagues.

Ability to continue the study: The course deals only with some of the fields proposed, but also gives news of a wide range of techniques that can be used in this field in so that he can critically choose as appropriate.

PREREQUISITES	No
WEBSITE	
CONTACT INFORMATION	melatti@di.uniroma1.it
REGISTRATION	Students should write to civis_openonlinecourses.ari@uniroma1.it indicating the name and code of the course and enclosing a transcript of records.

TITLE: Network algorithms

Faculty of I3S

Internal code

1047640

LANGUAGE(S)	English	**LEVEL OF STUDY**	Master
CREDIT POINTS	6	**LIMITED ATTENDANCE**	No
THEMATIC CIVIS AREA(S)	Digital & technological transformation	**OTHER DOMAIN OF STUDY**	**Computer ScienceComputer Science**
PERIOD	I sem	**DURATION**	60

DESCRIPTION:

General objectives: Acquire knowledge on the design of complex algorithms to solve graph problems that model problems inherent in networks (wired, wireless and of sensors).

Specific goals - Knowledge and understanding: At the end of the course students will know the basic methodologies for the analysis of problems related to networks and the identification of graph problems that are closer; they will also know the algorithms for solving some of the main problems on graphs.

Apply knowledge and understanding: At the end of the course students will have become familiar with the analysis of problems related to networks. They will be able to recognize which is the graph problem that is closer and - reworking existing ones - to design new data structures and related algorithms to solve the starting problem.

Critical and judgmental skills: Students will be able to analyze the quality of a network algorithm, both from the effective resolution of the problem and from the time complexity point of views.

Communication skills: Students will acquire the ability to expose their knowledge in a clear and organized way, which will be verified through the oral examination.

Learning ability: Once the cycle of studies is completed, the acquired knowledge will allow students to face real problems in a critical and effective way and to design efficient solutions.

PREREQUISITES	No
WEBSITE	
CONTACT INFORMATION	calamo@di.uniroma1.it
REGISTRATION	Students should write to civis_openonlinecourses.ari@uniroma1.it indicating the name and code of the course and enclosing a transcript of records.

TITLE: Automatic Software Verification Methods

Faculty of I3S

Internal code

1047615

LANGUAGE(S)	English	**LEVEL OF STUDY**	Master
CREDIT POINTS	6	**LIMITED ATTENDANCE**	No
THEMATIC CIVIS AREA(S)	Digital & technological transformation	**OTHER DOMAIN OF STUDY**	**Computer ScienceComputer Science**
PERIOD	I sem	**DURATION**	60

DESCRIPTION:

General goals: The course aims at presenting methods and tools for automatic verification and validation of cyber-physical systems.

Specific goals: The course aims at making students proficient in the comprehension and application of advanced modelling, verificaton and validation techniques for cyber-physical systems.

Knowledge and understanding: A wide-spectrum introduction to the foundational principles of modelling and analisys of cyberphysical systems modelled as DAE (Differential Algebraic Equations).

Applying knowledge and understanding: The successful student will be able to exploit the portfolio of techniques and the different approaches shown in the course for the modelling, verificaton and validation of cyber-physical systems.

Critical and judgmental abilities: Students will be able to take autonomous and rational decisions on the most effective techniques to employ for the modelling, verification and validation of cyber-physical systems.

Communication skills: Students will be able to interact proficiently with domain experts on a wide set of topics concerning modelling, verification and validation of cyber-physical systems.

Learning abilities: Students will be able to extend their skills in the subjects of this course, by the autonomous reading of relevant scientific literature.

PREREQUISITES	No
CONTACT INFORMATION	tronci@di.uniroma1.it
REGISTRATION	Students should write to civis_openonlinecourses.ari@uniroma1.it indicating the name and code of the course and enclosing a transcript of records.

TITLE: Computational Complexity

Faculty of I3S

Internal code

1047616

LANGUAGE(S)	English	**LEVEL OF STUDY**	Master
CREDIT POINTS	6	**LIMITED ATTENDANCE**	No
THEMATIC CIVIS AREA(S)	Digital & technological transformation	**OTHER DOMAIN OF STUDY**	**Computer ScienceComputer Science**
PERIOD	I sem	**DURATION**	60

DESCRIPTION:

General goals: This represents a basic course about the Theory of Computational Complexity

Specific goals:

- Theoretical model of resource running time

- Theoretical model ofresource memory occupation

- Time and Space complexity classes

- The P = NP problem

- Unfeasible problems when resources are bounded

- Computational Classes L, P, NP, PSPACE, BPP, #P, IP,

- Main Results

- Boolean Circuit and functions

Knowledge and understanding:

The student will acquire:

1. The ability to verify reduction and completeness properties between computational problems.

2. Knowledge of the main theorems in the field of Complexity Theory

3. Capabilities of mathematical reasoning on the computational nature of computational resources like running-time, memory occupation, randomness

Applying knowledge and understanding: The knowledge acquired is basic and foundational in fields like Software Verification, Game Theory, Analysis of Algorithms

Critical and judgmental skills: Enabling autonomous thinking in students by deepening their ability of mathematical reasoning through the development of discrete math techniques and functional analysis abilities.

Communication skills: Developing students' ability to communicate advanced results in the field of Theoretical computer Science

Ability of learning: Knowledge about Computational Complexity is necessary to evaluate the computational viability of the solution of any computational problem arising in the real world. Its knowledge is hence fundamental and basic in many Computer Science disciplines like Cryptography, Verification, Artificial Intelligence, Game Theory.

PREREQUISITES	No
WEBSITE	
CONTACT INFORMATION	galesi@di.uniroma1.it
REGISTRATION	Students should write to civis_openonlinecourses.ari@uniroma1.it indicating the name and code of the course and enclosing a transcript of records.

TITLE: Productivity and Efficiency Analysis

Faculty of I3S

Internal code

1041412

LANGUAGE(S)	English	**LEVEL OF STUDY**	Master
CREDIT POINTS	6	**LIMITED ATTENDANCE**	No
THEMATIC CIVIS AREA(S)	Digital & technological transformation	**OTHER DOMAIN OF STUDY**	**Management EngineeringManagement Engineering**
PERIOD	I sem	**DURATION**	60

DESCRIPTION:

The course, with an interdisciplinary approach, combines theoretical lectures on the economics of production, with lectures on the main econometric approaches proposed in the literature, including recent developments, and practical sessions to introduce to the main open source software available to carry out productivity and efficiency analysis.

The main objectives of the course are:

- Present a general overview on the economic theory of productivity and efficiency;

- Propose a unified framework on the main methodologies available to estimate and compare productivity and efficiency of Decision Making Units (DMUs);

- Make an introduction to the main open source software available to estimate productivity and efficiency;

- Provide laboratory sessions to implement productivity and efficiency analyses in practice;

- Provide the basic concepts to analyse the specialised literature;

- Interact with students through assisted laboratory and the realization of a practical work on real data, seminars and oral presentations.

Specific Objectives

• KNOWLEDGE AND UNDERSTANDING: DEMONSTRATE THE KNOWLEDGE OF THE BASIC ELEMENTS OF PRODUCTIVITY AND EFFICIENCY ANALYSIS;

• ABILITY TO APPLY KNOWLEDGE AND UNDERSTANDING: TO BE ABLE TO APPLY EFFICIENCY ANALYSIS TECHNIQUES LEARNED DURING THE COURSE IN ITS OWN ENGINEERING AREA OF SPECIALIZATION;

• JUDGMENT AUTONOMY: TO BE ABLE TO PERFORM AN EFFICIENCY ANALYSIS WITH CRITICAL SPIRIT, CHOOSING THE APPROPRIATE METHOD AND CORRECTLY IMPLEMENTING IT.

• COMMUNICATION SKILLS: BEING ABLE TO COMMUNICATE THE RESULTS OF THE ANALYSIS AND ITS INFORMATION TO DIFFERENT TYPES OF INTERLOCUTORS;

• LEARNING SKILLS: TO DEVELOP THE NECESSARY SKILLS TO APPLY AND DEVELOP AUTONOMOUSLY THE METHODS LEARNED DURING THE COURSE.

PREREQUISITES	No
WEBSITE	
CONTACT INFORMATION	daraio@diag.uniroma1.it
REGISTRATION	Students should write to civis_openonlinecourses.ari@uniroma1.it indicating the name and code of the course and enclosing a transcript of records.

TITLE: Electives in Artificial Intelligence

Faculty of I3S

Internal code

1056413

LANGUAGE(S)	English	**LEVEL OF STUDY**	Master
CREDIT POINTS	6	**LIMITED ATTENDANCE**	No
THEMATIC CIVIS AREA(S)	Digital & technological transformation	**OTHER DOMAIN OF STUDY**	**Computer EngineeringComputer Engineering**
PERIOD	I sem	**DURATION**	60

DESCRIPTION:

General objectives: The aim of the course, which is the most advanced within the Master's Degree in Artificial Intelligence and Robotics, is to provide an overview to the following research topics: learning methods in computational vision, model recognition, human-robot interaction and cognitive robotics.

The topics are presented by active researchers in these fields in order to present the student with research problems and relevant and recent application themes in Artificial Intelligence and Robotics. To this end, the courses include both the presentation and discussion of scientific articles, and an advanced project work.

The learning objective of the course is to provide the knowledge needed to undertake research work in these fields using practical tools for experimental validation.

Specific objectives.

Knowledge and understanding: The course is the most advanced in the Master for Artificial Intelligence and Robotics and offers an overview of different research topics, such as: learning methods in computational vision, pattern recognition, person-robot interaction, and automatic reasoning in robots.

The topics are covered by researchers active in the field and with the aim of introducing the student to research problems and recent and relevant applications in Artificial Intelligence and Robotics.

Applied knowledge and understanding: The course provides the knowledge necessary to undertake research work in these fields using practical tools for experimental validation.

Critical and judgment skills: The course proposes advanced methods to study, understand and apply results reported on scientific articles, and integrate these results to create innovative Artificial Intelligence applications. The student learns how to use results from the literature as a basis for new research.

Communication skills: Group activities in the classroom and the need to make presentations to the class allow the student to develop the ability to communicate and share the knowledge acquired and to compare herself with others on the topics of the course.

Learning ability: In addition to the classic learning skills provided by the theoretical study of the teaching material, the course develops methods stimulate the student to deepen his knowledge of some of the topics she presents to the course and to the work group. Furthemroe the course stimulates the student to effectively apply both the concepts and the techniques learned during the course.

PREREQUISITES	No
WEBSITE	
CONTACT INFORMATION	cnapoli@diag.uniroma1.it
REGISTRATION	Students should write to civis_openonlinecourses.ari@uniroma1.it indicating the name and code of the course and enclosing a transcript of records.

TITLE: Optimization Methods for Machine Learning

Faculty of I3S

Internal code

1041415

LANGUAGE(S)	English	**LEVEL OF STUDY**	Master
CREDIT POINTS	6	**LIMITED ATTENDANCE**	No
THEMATIC CIVIS AREA(S)	Digital & technological transformation	**OTHER DOMAIN OF STUDY**	**Computer EngineeringComputer Engineering**
PERIOD	I sem	**DURATION**	60

DESCRIPTION:

Introduction. Definition of learning systems. Goals and applications of machine learning (classification and regression). Basics on statistical learning theory (Vapnik Chervonenkis bound). Underfitting and Overfitting. Use of data: training set, test set, validation set. 2. Artificial Neural Networks. Neurons and biological motivation. Linear threshold units. The Perceptron and its learning algorithm (proof of convergence). Classification of linearly separable patterns. Multi-Layer Feedforward Neural Networks. Gradient method: basics. Back-propagation (BP) algorithm. BP batch version: proof of convergence and choice of the learning rate. BP on-line version: incremental method, theorem of convergence. Momentum updating rule. Radial-Basis function (RBF) networks: regularized and generalized RBF networks. Their use in interpolation and approximation. learning strategies and error functions. Unsupervised selection of center. Supervised selection of weights and centers: decomposition methods into two blocks and decomposition methods into more blocks. Convergence theory of decomposition methods. Early stopping 3. Support Vector Machines (Kernel methods) Soft and hard Maximum Margin Classifiers. Quadratic programming formulation of the soft/hard maximum margin separators. Kernels methods. Dual formulation of the primal QP problem. Wolfe duality theory for QP. KKT conditions. Frank Wolfe method: basics. Decomposition methods: SMO-type algorithms, MVP algorithm, SVMlight, cyclic methods. Convergence theory. Implementation tricks: Caching, shrinking. Choosing parameters: k-fold cross-validation. Multiclass SVM problems: one-against-one and one-against-all. 4. Practical use of learning algorithms. 5. Comparing learning algorithms from the optimization point of view. 6. Use of standard software (Weka, LIBSVM)

PREREQUISITES	No
WEBSITE	

CONTACT INFORMATION	laura.palagi@uniroma1.it
REGISTRATION	Students should write to civis_openonlinecourses.ari@uniroma1.it indicating the name and code of the course and enclosing a transcript of records.

TITLE: Electromagnetics and Radar Meteorology

Faculty of I3S

Internal code

10593374

LANGUAGE(S)	English	**LEVEL OF STUDY**	Master
CREDIT POINTS	6	**LIMITED ATTENDANCE**	No
THEMATIC CIVIS AREA(S)	Digital & technological transformation	**OTHER DOMAIN OF STUDY**	**Electonical EngineeringElectonical Enigineering**
PERIOD	I sem	**DURATION**	60

DESCRIPTION:

OBJECTIVES
Main goals are:
- to introduce the classical electromagnetic vector field theory and its main theorems;
- to derive properties of plane and spherical waves and the related reflection and refraction phenomena;
- to provide the basics of electromagnetic radiation theory, radiopropagation and particle scattering;
- to provide the basics of clouds and precipitation microphysics and the related radar observables;
- to describe the microwave Doppler polarimetric radar sensor principles and basic equations;
- to illustrate the main applications of radar meteorology and data processing.

OUTCOMES (Dublin descriptors: knowledge, understanding, explain, skill, ability)
After the successful completion of this module, the student should be able to:
- know the basic principles of electromagnetics and radar meteorology;
- identify the appropriate analytical techniques to approach an electromagnetic problem;
- understand the different processes involved within wave propagation and scattering in atmosphere;
- explain the signature of meteorological radar measurements for various applications;
- show skills for reading and understanding main scientific literature and texts on related topics;
- demonstrate the ability to process meteorological data and develop own algorithms.

PREREQUISITES	No
WEBSITE	
CONTACT INFORMATION	frank.marzano@uniroma1.it
REGISTRATION	Students should write to civis_openonlinecourses.ari@uniroma1.it indicating the name and code of the course and enclosing a transcript of records.

TITLE: Optoelectronics

Faculty of I3S

Internal code

1041744

LANGUAGE(S)	English	**LEVEL OF STUDY**	Master
CREDIT POINTS	6	**LIMITED ATTENDANCE**	No
THEMATIC CIVIS AREA(S)	Digital & technological transformation	**OTHER DOMAIN OF STUDY**	**Electonical EnigineeringElectonical Enigineering**
PERIOD	I sem	**DURATION**	60

DESCRIPTION:

KNOWLEDGE AND UNDERSTANDING.

Students will acquire a consistent knowledge of phenomena, materials, devices and optoelectronic techniques related to the generation, detection and processing of optical signals, to the photovoltaics for solar energy conversion, for reduction of power consumption.

CAPABILITY TO APPLY KNOWLEDGE AND UNDERSTANDING.

Students will acquire capabilities to design and to evaluate performance of devices according to the

specifications provided, both by lectures and laboratory experiences, for specific applications from telecom, to sensors, to optical instrumentation.

MAKING AUTONOMOUS JUDGEMENTS.

Students will acquire the expertise to design and to evaluate performance of most optoelectronic devices for any optoelectronic system.

COMMUNICATE SKILLS.

Students will acquire the capabilities to communicate in both written and oral form on the contents of the course, by means of written reports and oral discussions both in the classroon and during the exam.

LEARNING SKILLS.

Students will acquire the capabilities to learn the contents of the course by several means using lecture notes, books, technical and scientific literature available on web, laboratory experiences as indicated by the teacher.

PREREQUISITES	No
WEBSITE	
CONTACT INFORMATION	antonio.dalessandro@uniroma1.it
REGISTRATION	Students should write to civis_openonlinecourses.ari@uniroma1.it indicating the name and code of the course and enclosing a transcript of records.

TITLE: Concurrent Systems

Faculty of I3S

Internal code

1047619

LANGUAGE(S)	English	**LEVEL OF STUDY**	Master
CREDIT POINTS	6	**LIMITED ATTENDANCE**	No
THEMATIC CIVIS AREA(S)	Digital & technological transformation	**OTHER DOMAIN OF STUDY**	**Computer ScienceComputer Science**
PERIOD	II sem	**DURATION**	60

DESCRIPTION:

General goals:

Understanding the basic concepts of concurrent systems and the methodologies used for solving the problems they yield

Specific goals:

Mutual exclusion, different liveness properties, semaphores, monitors, transactions, mutex-free concurrency, other liveness properties, universal object and consensus. Labelled transitions systems, interleaving semantics, synchronization, simulation and bisimulation, verification techniques, name passing, type systems.

Knowledge and comprehension:

Understanding the basic issues of concurrent systems and their possible solutions, the foundational principles of a concurrent programming language and the possible verification techniques.

Applying knowledge and comprehension:

ability of solving basic problems of simple concurrent systems

Capabilities of critiquing and assessing:

understanding advantages and disadvantages of the different possible solutions of problems in concurrent systems

Communication skills:

developing a technical and formal language, able to explain the proposed solutions and their relative merits

Learning skills:

ability in understanding complex programming scenarios and the relative solutions, even complex

PREREQUISITES	No
WEBSITE	
CONTACT INFORMATION	gorla@di.uniroma1.it
REGISTRATION	Students should write to civis_openonlinecourses.ari@uniroma1.it indicating the name and code of the course and enclosing a transcript of records.

TITLE: cloud computing

Faculty of I3S

Internal code

1047205

LANGUAGE(S)	English	**LEVEL OF STUDY**	Master
CREDIT POINTS	6	**LIMITED ATTENDANCE**	No
THEMATIC CIVIS AREA(S)	Digital & technological transformation	**OTHER DOMAIN OF STUDY**	**Computer ScienceComputer Science**
PERIOD	II sem	**DURATION**	60

DESCRIPTION:

General Objectives:

The purpose of the course is to give students the basic concepts of distributed systems and then to focus on cloud computing technologies. The course cover theoretical and practical aspects with a focus on real examples. At the end of the course students are supposed to be capable to chose, setup and use cloud services and to design and deploy scalable architectures and elastic applications.

Specific Objectives:

Knowledge and understanding:

On completion of the course, the student will be be able to describe and to explain

- the general concepts related to distributed systems

- the concepts of system and application virtualization

- the mechanisms and algorithms used in cloud computing

- the technologies for cloud storage

- the big data processing frameworks

- the cyber security issues and solutions in cloud computing

Applying knowledge and understanding:

On completion of the course, the student will be able:

- to design and to implement a scalable architecture and to deploy an elastic application

- to write and to present practical results in the form of technical report

- to analyze and to present scientific work

- to select, to configure and to run cloud services by using management GUI and API offered by IaaS providers

- to design and to configure elastic infrastructure and to deploy elastic applications.

- to make design choices that account for cyber security issues

Making judgements:

On completion of the course, the student will:

- be capable to assess and to compare cloud technologies and cloud services, as well as big data processing frameworks

- be capable to identify, to assess and to compare state of the art solutions

- strengthen his/her critical thinking ability

Communication skills:

On completion of the course, the student will:

- be capable to discuss on and to convey his/her own opinion on cloud technologies

- be capable to present the analysis of a selected topic to a wide audience

Learning skills:

During the course, the student will develop and will enhance his/her critical thinking skill by means of studying and analyzing scientific work and technical documentation. Moreover, the student will improve his/her capability to integrate information from different sources, e.g. books, technical/scientific papers, practical experiences.

PREREQUISITES	No
WEBSITE	
CONTACT INFORMATION	casalicchio@di.uniroma1.it
REGISTRATION	Students should write to civis_openonlinecourses.ari@uniroma1.it indicating the name and code of the course and enclosing a transcript of records.

TITLE: Marketing and Innovation Management

Faculty of I3S

Internal code

1041411

LANGUAGE(S)	English	**LEVEL OF STUDY**	Master
CREDIT POINTS	6	**LIMITED ATTENDANCE**	No
THEMATIC CIVIS AREA(S)	Digital & technological transformation	**OTHER DOMAIN OF STUDY**	**Management EngineeringManagement Engineering**
PERIOD	II sem	**DURATION**	60

DESCRIPTION:

GENERAL OBJECTIVES

The course provides students with the basic principles and tools useful for Marketing and Innovation Management. Specifically, the course aims at teaching students: the main forces of the marketing environment; the management of marketing information to gain customer insights; consumer and business buyer behaviors; steps and tools to define and implement a marketing strategy; sources, types and patterns of innovation; standards battles and design dominance; the timing of entry; the mechanisms to protect innovation; the new product development process; the integration of environmental sustainability into marketing strategy and new product development. Further, through the analysis of several case studies, the course aims at stimulating analytical skills, which will allow students to understand and explain firm behavior and the related market results in the domain of marketing and technological innovation strategies, by applying principles and tools learnt during the course.

SPECIFIC OBJECTIVES

KNOWLEDGE AND UNDERSTANDING. The course will allow a comprehension of the fundamental concepts and tools of Marketing and Innovation Management. The students will learn to recognize and to master the best practices and success factors of Marketing and Innovation Management and to apply them in real contexts.

CAPABILITY TO APPLY KNOWLEDGE AND UNDERSTANDING. Through the course students will be able to develop a marketing plan, critically evaluate marketing and technological innovation strategies of firms, classify products based on their environmental impact.

MAKING AUTONOMOUS JUDGEMENTS. After the course, the student will be able to choose, given the main environmental forces, firm and innovation characteristics, the best marketing and technological innovation strategies. In addition, the student will develop the critical analysis capacity of marketing and innovation management.

COMMUNICATION SKILLS. At the end of the course the students will be able to illustrate the concepts of marketing and innovation management using internationally consolidated terminology and models, to organize information and data according to a format and a reporting process comprehensible to professionals.

LEARNING SKILLS. The student will develop the capability to autonomously study and critically understand and evaluate marketing and technological innovation strategies and related tools.

PREREQUISITES	No
WEBSITE	
CONTACT INFORMATION	rosamaria.dangelico@uniroma1.it
REGISTRATION	Students should write to civis_openonlinecourses.ari@uniroma1.it indicating the name and code of the course and enclosing a transcript of records.

TITLE: Economics of Network Industries

Faculty of I3S

Internal code

1047212

LANGUAGE(S)	English	**LEVEL OF STUDY**	Master
CREDIT POINTS	6	**LIMITED ATTENDANCE**	No
THEMATIC CIVIS AREA(S)	Digital & technological transformation	**OTHER DOMAIN OF STUDY**	**Management EngineeringManagement Engineering**
PERIOD	II sem	**DURATION**	60

DESCRIPTION:

1. Demand and technology in network industries: Network effects and externalities; Economies of scale and scope; Compatibility and standardization 2. Market organization in network industries: Vertical structure; Vertical and horizontal mergers; 3. Market power and pricing strategies in network industries: Switching costs and lock-in; Bundling and tying; 4. Telecommunications: Natural monopoly and sunk costs; Regulation; Liberalization of markets; 5. Two-sided markets and platforms: Key features and pricing issues; The Internet network; 6. Antitrust policies in network industries

PREREQUISITES	No
WEBSITE	
CONTACT INFORMATION	reverberi@diag.uniroma1.it
REGISTRATION	Students should write to civis_openonlinecourses.ari@uniroma1.it indicating the name and code of the course and enclosing a transcript of records.

TITLE: Data Driven Economics

Faculty of I3S

Internal code

1056129

LANGUAGE(S)	English	**LEVEL OF STUDY**	Master
CREDIT POINTS	6	**LIMITED ATTENDANCE**	No
THEMATIC CIVIS AREA(S)	Digital & technological transformation	**OTHER DOMAIN OF STUDY**	**Management EngineeringManagement Engineering**
PERIOD	II sem	**DURATION**	60

DESCRIPTION:

A first objective of the course is to provide a basic toolbox for the analysis of agent and group interaction under uncertainty and asymmetric information, and its main consequences on markets enabled from large-scale digital platforms.
A second objective of the course will be to provide the basic methods for the use of big data for estimating relevant economic indices.
The active participation of students will be stimulated with game-theoretic examples, presentations, simple experiments, case-studies and projects involving the use of real-world data.

PREREQUISITES	No
WEBSITE	
CONTACT INFORMATION	marco.marini@uniroma1.it
REGISTRATION	Students should write to civis_openonlinecourses.ari@uniroma1.it indicating the name and code of the course and enclosing a transcript of records.

TITLE: Satellite Earth Observation

Faculty of I3S

Internal code

1047218

LANGUAGE(S)	English	**LEVEL OF STUDY**	Master
CREDIT POINTS	6	**LIMITED ATTENDANCE**	No
THEMATIC CIVIS AREA(S)	Digital & technological transformation	**OTHER DOMAIN OF STUDY**	**Electonical EngineeringElectonical Enigineering**
PERIOD	II sem	**DURATION**	60

DESCRIPTION:

INTRODUCTION AND FOUNDATIONS. Definition of remote sensing. Elements of physics: electromagnetic waves, radiative quantities (power density, radiance, emissivity); thermal emission; Planck and Stefan-Boltzmann laws; absorption and scattering phenomena. Atmospheric effects in spaceborne and airborne remote sensing. The electromagnetic spectrum and its use for remotely sensing the Earth; visible, infrared and microwave bands. CLASSIFICATION OF REMOTE SENSING SENSORS. Parameters to characterize sensor performances and product quality; geometric, radiometric and spectral resolutions; geometric accuracy and sensor coverage. Microwave radiometers. Active microwave sensors (radar) main characteristics (SLAR, SAR, wind scatterometer, radar altimeter). Radar images radiometric and geometric properties. Principles of visible and infrared radiometers (mechanical scanning and pushbroom radiometers). ENVIRONMENTAL DATA, MODELS AND ALGORITHMS. Spectral properties of the sea, soil and vegetation surfaces in the visible and near infrared spectral ranges. Applications and algorithms for visible and near infrared radiometers. Retrieval algorithms of sea surface temperature. Scattering properties of sea and soil surfaces in the microwave bands. Applications and algorithms for microwave radiometry of atmosphere, soil and vegetation. Applications and algorithms for radar remote sensing and radar interferometry. EARTH OBSERVATION SATELLITES. Space and ground segments of an Earth observation system. Radiometric, spectral, spatial and temporal requirements of an Earth observation mission. Main orbits for remotely sensing the Earth. Overview of LANDSAT, SPOT, TIROS, METEOSAT, ERS-1/2, Envisat, Sentinel missions. DMSP, MetOp platforms and “high resolution” satellites. DATA PROCESSING AND IMAGE INTERPRETATION. Standard methods to perform image geometric correction and radiometric calibration. Forward and inverse problem. Bayesian theory, regression analysis and image classification. Bio-geophysical paramater detection and estimation and product generation. Ground-segment data handling, processing, storage. Software packages for data processing and analysis.

PREREQUISITES	No

WEBSITE	
CONTACT INFORMATION	nazzareno.pierdicca@uniroma1.it
REGISTRATION	Students should write to civis_openonlinecourses.ari@uniroma1.it indicating the name and code of the course and enclosing a transcript of records.

TITLE: Big Data Computing

Faculty of I3S

Internal code

1041764

LANGUAGE(S)	English	**LEVEL OF STUDY**	Master
CREDIT POINTS	6	**LIMITED ATTENDANCE**	No
THEMATIC CIVIS AREA(S)	Digital & technological transformation	**OTHER DOMAIN OF STUDY**	**Computer ScienceComputer Science**
PERIOD	II sem	**DURATION**	60

DESCRIPTION:

General goals:

The course is aimed at training students on fundamental algorithmic and programming techniques in big-data computing, tackling a variety of data mining problems on computational models used for managing massive information structures.

Specific goals:

Knowledge and understanding:

At the end of the course the students will have deep understanding of programming models for distributed data analysis on large clusters of computers, as well as of advanced computational models for processing massive amounts of data (e.g., data streaming, MapReduce-style parallelism, and I/O-efficient algorithms).

Apply knowledge and understanding:

Students will be able t

o design and analyze algorithms in different big data settings, to write efficient code taking into account architectural features of modern computing platforms (including distributed systems), and to make use of good programming practices and advanced programming frameworks, such as Hadoop.

Critical and judgmental skills:

Students will be able to distinguish the proper settings in which to use different computational paradigms for big data analysis, to evaluate the advantages and disadvantages of each model, and to face challenges arising in the design and implementation of diverse big data applications.

Communication skills:

The students will be able to communicate effectively, summarizing the main ideas in the design of big data systems and algorithms clearly and presenting accurate technical information.

Ability of learning:

The goal for the class is to be broad and to touch upon a variety of techniques, introducing standard practices as well as cutting-edge research topics in this area, making it possible for the students to extend their knowledge independently according to technological changes and evolution.

PREREQUISITES	No
WEBSITE	
CONTACT INFORMATION	tolomei@di.uniroma1.it
REGISTRATION	Students should write to civis_openonlinecourses.ari@uniroma1.it indicating the name and code of the course and enclosing a transcript of records.

TITLE: BUSINESS LAW

Faculty of Law

Internal code

1052118

LANGUAGE(S)	English	**LEVEL OF STUDY**	Master
CREDIT POINTS	9	**LIMITED ATTENDANCE**	no
THEMATIC CIVIS AREA(S)	Society, Culture, Heritage	**OTHER DOMAIN OF STUDY**	
PERIOD	First semester	**DURATION**	72 hours

DESCRIPTION:

The course aims to illustrate the relationships between law and economics, between legal and economic culture, antitrust legislation, as well as the regulation of the market, services and financial markets.

PREREQUISITES	not necessary
WEBSITE	https://corsidilaurea.uniroma1.it/it/corso/2021/31302/home
CONTACT INFORMATION	luca.didonna@uniroma1.it
REGISTRATION	Students should write to civis_openonlinecourses.ari@uniroma1.it indicating the name and code of the course and enclosing a transcript of records.

TITLE: LAW AND ECONOMICS I

Faculty of Law

Internal code

1051725

LANGUAGE(S)	English	**LEVEL OF STUDY**	Master
CREDIT POINTS	9	**LIMITED ATTENDANCE**	no
THEMATIC CIVIS AREA(S)	Society, Culture, Heritage	**OTHER DOMAIN OF STUDY**	
PERIOD	First semester	**DURATION**	72 hours

DESCRIPTION:

The course aims to provide the student with the theoretical tools of the economic analysis of law and the knowledge necessary for their application to European integration issues.

PREREQUISITES	not necessary
WEBSITE	https://corsidilaurea.uniroma1.it/it/corso/2021/31302/home
CONTACT INFORMATION	valeria.debonis@uniroma1.it
REGISTRATION	Students should write to civis_openonlinecourses.ari@uniroma1.it indicating the name and code of the course and enclosing a transcript of records.

TITLE: COMPARATIVE AND EUROPEAN PRIVATE LAW

Faculty of Law

Internal code

1052117

LANGUAGE(S)	English	**LEVEL OF STUDY**	Master
CREDIT POINTS	9	**LIMITED ATTENDANCE**	No
THEMATIC CIVIS AREA(S)	Society, Culture, Heritage	**OTHER DOMAIN OF STUDY**	
PERIOD	First semester	**DURATION**	72 hours

DESCRIPTION:

The course aims to deepen the theoretical and practical knowledge of European private law - especially in the light of the process of community integration - through the recognition of the areas in which the community discipline has affected relations between individuals, with particular regard to contracts and liability. civil

PREREQUISITES	not necessary
WEBSITE	https://corsidilaurea.uniroma1.it/it/corso/2021/31302/home
CONTACT INFORMATION	guido.alpa@uniroma1.it
REGISTRATION	Students should write to civis_openonlinecourses.ari@uniroma1.it indicating the name and code of the course and enclosing a transcript of records.

TITLE: EUROPEAN COMPANY LAW

Faculty of Law

Internal code

1056319

LANGUAGE(S)	English	**LEVEL OF STUDY**	Master
CREDIT POINTS	6	**LIMITED ATTENDANCE**	No
THEMATIC CIVIS AREA(S)	Society, Culture, Heritage	**OTHER DOMAIN OF STUDY**	
PERIOD	Second Semester	**DURATION**	48 hours

DESCRIPTION:

The course will explore the main issues which arise in the field of company law in the framework of the European Community legal order

PREREQUISITES	Not necessary
WEBSITE	https://corsidilaurea.uniroma1.it/it/corso/2021/31302/home
CONTACT INFORMATION	alessandra.paolini@uniroma1.it
REGISTRATION	Students should write to civis_openonlinecourses.ari@uniroma1.it indicating the name and code of the course and enclosing a transcript of records.

TITLE: EUROPEAN UNION LAW

Faculty of Law

Internal code

1052119

LANGUAGE(S)	English	**LEVEL OF STUDY**	Master
CREDIT POINTS	9	**LIMITED ATTENDANCE**	no
THEMATIC CIVIS AREA(S)	Society, Culture, Heritage	**OTHER DOMAIN OF STUDY**	
PERIOD	Second Semester	**DURATION**	72 hours

DESCRIPTION:

The course aims to represent and illustrate the main features of European Union law, with particular reference to the institutional and regulatory changes introduced by the Lisbon Treaty.

PREREQUISITES	not necessary
WEBSITE	https://corsidilaurea.uniroma1.it/it/corso/2021/31302/home
CONTACT INFORMATION	emanuele.cimiotta@uniroma1.it
REGISTRATION	Students should write to civis_openonlinecourses.ari@uniroma1.it indicating the name and code of the course and enclosing a transcript of records.

TITLE: Geomaterials for Cultural Heritage

Faculty of Mathematics, Physical and Natural Sciences

Internal code

10589750

LANGUAGE(S)	English	**LEVEL OF STUDY**	Master
CREDIT POINTS	6	**LIMITED ATTENDANCE**	No
THEMATIC CIVIS AREA(S)	Society, Culture, Heritage	**OTHER DOMAIN OF STUDY**	
PERIOD	I semester	**DURATION**	52 h, 4h/week

DESCRIPTION:

The course concerns the study of the ancient geo-materials in the field of cultural heritage (e.g., stone, ceramics, glass, plasters); their nature, production processes and degradation. In addition, the recent innovative scientific methods used in their characterization will be presented using case studies. This information will allow students to independently develop a research project which will be set during the laboratory hours and evaluated at the end of the course.

PREREQUISITES	
WEBSITE	https://web.uniroma1.it/dip_dba302/en
CONTACT INFORMATION	laura.medeghini@uniroma1.it
REGISTRATION	Students should write to civis_openonlinecourses.ari@uniroma1.it indicating the name and code of the course and enclosing a transcript of records.

TITLE: Plant biology and conservation for Cultural Heritage

Faculty of Mathematics, Physical and Natural Sciences

Internal code
10600330

LANGUAGE(S)	English	**LEVEL OF STUDY**	Master
CREDIT POINTS	9	**LIMITED ATTENDANCE**	No
THEMATIC CIVIS AREA(S)	Society, Culture, Heritage	**OTHER DOMAIN OF STUDY**	
PERIOD	I semester	**DURATION**	80 h (of which 24 h in the field), 6h/week

DESCRIPTION:

Plants have always been a main resource for humans. The course investigates the climate-plants interactions along the human history, since before the dawn of agriculture. Diagnostic and tools to know and preserve our cultural heritage will be taught as well. The course has also field trips in historical Italian sites (e.g. Pompeii, Herculaneum, Pyrgi) and museums.

PREREQUISITES	
WEBSITE	https://web.uniroma1.it/dip_dba302/en
CONTACT INFORMATION	laura.sadori@uniroma1.it, gabriele.favero@uniroma1.it
REGISTRATION	Students should write to civis_openonlinecourses.ari@uniroma1.it indicating the name and code of the course and enclosing a transcript of records.

TITLE: Applied geosciences and bioconservation laboratory

Faculty of Mathematics, Physical and Natural Sciences

Internal code

10600331

LANGUAGE(S)	English	**LEVEL OF STUDY**	Master
CREDIT POINTS	9	**LIMITED ATTENDANCE**	No
THEMATIC CIVIS AREA(S)	Society, Culture, Heritage	**OTHER DOMAIN OF STUDY**	
PERIOD	I semester	**DURATION**	72 h, 6h/week

DESCRIPTION:

The course is focused on the analytical methods belonging to the earth sciences that can be applied in the study of cultural heritage and on the basic knowledge of the bioconservation: selection and recognition of the microbial community present on an artwork; evaluation of the biodeterioration and the identification of the best strategy for the bioconservation.

PREREQUISITES	
WEBSITE	https://web.uniroma1.it/dip_dba302/en
CONTACT INFORMATION	teresa.rinaldi@uniroma1.it; laura.medeghini@uniroma1.it
REGISTRATION	Students should write to civis_openonlinecourses.ari@uniroma1.it indicating the name and code of the course and enclosing a transcript of records.

TITLE: Neuropharmacology of motivational processes

Faculty of Mathematics, Physical and Natural Sciences

Internal code

1052232

LANGUAGE(S)	English	**LEVEL OF STUDY**	Master
CREDIT POINTS	6	**LIMITED ATTENDANCE**	No
THEMATIC CIVIS AREA(S)	Health	**OTHER DOMAIN OF STUDY**	**NeuroscienceNeuroscience**
PERIOD	I semester	**DURATION**	48 h

DESCRIPTION:

Provide an overview of the neuropharmacology of motivational processes

PREREQUISITES	Basic Knowledge of Neurophysiology, Biochemistry
WEBSITE	http://bbcd.bio.uniroma1.it/bbcd/en
CONTACT INFORMATION	daniele.caprioli@uniroma1.it
REGISTRATION	Students should write to civis_openonlinecourses.ari@uniroma1.it indicating the name and code of the course and enclosing a transcript of records.

TITLE: Molecular plant pathology: the main strategies of integrated pest management

Faculty of Mathematics, Physical and Natural Sciences

Internal code
600068

LANGUAGE(S)	English	**LEVEL OF STUDY**	Master
CREDIT POINTS	6	**LIMITED ATTENDANCE**	No
THEMATIC CIVIS AREA(S)	Climate, Environment, Energy	**OTHER DOMAIN OF STUDY**	
PERIOD	I semester	**DURATION**	52 h

DESCRIPTION:

Provide knowledge on the molecular aspects of plant-pathogen interactions. Study how pathogens counteract plant defense response and establish resistance.

PREREQUISITES	Basic Knowledge of cellular and system biology
WEBSITE	http://bbcd.bio.uniroma1.it/bbcd/en
CONTACT INFORMATION	luigi.faino@uniroma1.it
REGISTRATION	Students should write to civis_openonlinecourses.ari@uniroma1.it indicating the name and code of the course and enclosing a transcript of records.

TITLE: Smart materials for conservation in Archaeology

Faculty of Mathematics, Physical and Natural Sciences

Internal code

10596381

LANGUAGE(S)	English	**LEVEL OF STUDY**	Master
CREDIT POINTS	6	**LIMITED ATTENDANCE**	No
THEMATIC CIVIS AREA(S)	Society, Culture, Heritage	**OTHER DOMAIN OF STUDY**	
PERIOD	I semester	**DURATION**	60 h, 4h/week

DESCRIPTION:

The course is divided into two modules: “smart materials” and “geomaterials”. The first concerns the nature, production and application of nanomaterials and smart materials for the conservation and protecion of mobile and immobile cultural heritage; the second is on the analysis of ancient geo-materials in the field of cultural heritage (e.g., stone, ceramics, glass, plasters): their nature, production processes and degradation.

PREREQUISITES	
WEBSITE	https://web.uniroma1.it/dip_dba302/en
CONTACT INFORMATION	marialaura.santarelli@uniroma1.it, laura.medeghini@uniroma1.it
REGISTRATION	Students should write to civis_openonlinecourses.ari@uniroma1.it indicating the name and code of the course and enclosing a transcript of records.

TITLE: Neuropsychopharmacology

Faculty of Mathematics, Physical and Natural Sciences

Internal code

10592808

LANGUAGE(S)	English	**LEVEL OF STUDY**	Master
CREDIT POINTS	6	**LIMITED ATTENDANCE**	No
THEMATIC CIVIS AREA(S)	Health	**OTHER DOMAIN OF STUDY**	**NeuroscienceNeuroscience**
PERIOD	II semester	**DURATION**	48 h

DESCRIPTION:

Study the physiological properties of agents acting within the central nervous system

PREREQUISITES	Basic Knowledge of Neurophysiology, Biochemistry
WEBSITE	http://bbcd.bio.uniroma1.it/bbcd/en
CONTACT INFORMATION	aldo.badiani@uniroma1.it
REGISTRATION	Students should write to civis_openonlinecourses.ari@uniroma1.it indicating the name and code of the course and enclosing a transcript of records.

TITLE: Molecular dynamics in plant-microbe interactions: the study of plant-microbe interactions to develop biotechnological approaches for crop improvement

Faculty of Faculty of Mathematics, Physical and Natural Sciences

Internal code
10600071

LANGUAGE(S)	English	**LEVEL OF STUDY**	Master
CREDIT POINTS	6	**LIMITED ATTENDANCE**	No
THEMATIC CIVIS AREA(S)	Climate, Environment, Energy	**OTHER DOMAIN OF STUDY**	
PERIOD	II semester	**DURATION**	48 h

DESCRIPTION:

Study of the molecular, cellular and evolutionary aspects of plant immunity and the analogies and differences with the animal innate immune system

PREREQUISITES	Basic Knowledge of cellular and system biology
WEBSITE	http://bbcd.bio.uniroma1.it/bbcd/en
CONTACT INFORMATION	giulia.delorenzo@uniroma1.it
REGISTRATION	Students should write to civis_openonlinecourses.ari@uniroma1.it indicating the name and code of the course and enclosing a transcript of records.

TITLE: Psychobiology with elements of psychopharmacology

Faculty of Mathematics, Physical and Natural Sciences

Internal code

10592805

LANGUAGE(S)	English	**LEVEL OF STUDY**	Master
CREDIT POINTS	6	**LIMITED ATTENDANCE**	No
THEMATIC CIVIS AREA(S)	Health	**OTHER DOMAIN OF STUDY**	**NeuroscienceNeuroscience**
PERIOD	II semester	**DURATION**	52 h

DESCRIPTION:

Study and understanding the relationship between the nervous system and behavior, from reflexes to cortical functions.

PREREQUISITES	Basic Knowledge of cellular and system biology
WEBSITE	http://bbcd.bio.uniroma1.it/bbcd/en
CONTACT INFORMATION	andrea.mele@uniroma1.it
REGISTRATION	Students should write to civis_openonlinecourses.ari@uniroma1.it indicating the name and code of the course and enclosing a transcript of records.

TITLE: Internal Medicine and General Surgery

Faculty of Medicine/Internal Medicine

Internal code

1055854

LANGUAGE(S)	English	**LEVEL OF STUDY**	Master
CREDIT POINTS	1	**LIMITED ATTENDANCE**	No
THEMATIC CIVIS AREA(S)	Health	**OTHER DOMAIN OF STUDY**	
PERIOD	First semester	**DURATION**	12 hours/9 weeks

DESCRIPTION:

After the course, the student will have completed an introduction to cinical medicine, to physical examination, to medical diagnosis, to the medical record;, to the doctor-patient relationship; to cure and to care: the differences; illness, disease, sickness: the differences. The objective is to guide the student into the world of Clinical Medicine, helping him/her to get familiar with the concepts of health, disease, person, and providing introductory elements of scientific methodology, and introducing the medical glossary, the medical reasoning and the evidence-based and person-centered modern medicine

PREREQUISITES	Not necessary
WEBSITE	https://corsidilaurea.uniroma1.it/en/corso/2020/30893/home
CONTACT INFORMATION	maurizio.muscaritoli@uniroma1.it
REGISTRATION	Students should write to civis_openonlinecourses.ari@uniroma1.it indicating the name and code of the course and enclosing a transcript of records.

TITLE: Internal Medicine and General Surgery

Faculty of Medicine/Internal Medicine

Internal code

1038322

LANGUAGE(S)	English	**LEVEL OF STUDY**	Master
CREDIT POINTS	2	**LIMITED ATTENDANCE**	No
THEMATIC CIVIS AREA(S)	Health	**OTHER DOMAIN OF STUDY**	
PERIOD	Second semester	**DURATION**	22 hours/6 weeks

DESCRIPTION:

At the end of the course the student should (1) be able to adress complex clinical cases, affected by muliple pathologies, receiving multiple drugs: (2) know the main risks associated with drug polytherapy and be able to check drug interactions, identify subjects at greater risk of adverse events; (3) interpret arterial blood gas analysis and EKG.

PREREQUISITES	A basic knowledge of Medicine, Pharmacology and Pathophysiology
WEBSITE	https://corsidilaurea.uniroma1.it/en/corso/2020/30893/home
CONTACT INFORMATION	cosimo.durante@uniroma1.it
REGISTRATION	Students should write to civis_openonlinecourses.ari@uniroma1.it indicating the name and code of the course and enclosing a transcript of records.

TITLE: Internal Medicine and General Surgery

Faculty of Medicine/Internal Medicine

Internal code

N/A

LANGUAGE(S)	English	**LEVEL OF STUDY**	Master
CREDIT POINTS	0.5	**LIMITED ATTENDANCE**	No
THEMATIC CIVIS AREA(S)	Health	**OTHER DOMAIN OF STUDY**	
PERIOD	Second semester	**DURATION**	6 hours/3 weeks

DESCRIPTION:

At the end of the course, the student learned notions about technological innovation in general surgery and digestive endoscopy.

PREREQUISITES	Not necessary
WEBSITE	
CONTACT INFORMATION	enrico.fiori@uniroma1.it
REGISTRATION	Students should write to civis_openonlinecourses.ari@uniroma1.it indicating the name and code of the course and enclosing a transcript of records.

TITLE: Theory and Psychodinamic Models

Faculty of Medicine and Psychology

Internal code

10591764

LANGUAGE(S)	English	**LEVEL OF STUDY**	Master
CREDIT POINTS	6	**LIMITED ATTENDANCE**	40
THEMATIC CIVIS AREA(S)	Health	**OTHER DOMAIN OF STUDY**	**Clinical PsychologyClinical Psychology**
PERIOD	I semester	**DURATION**	60 hours

DESCRIPTION:

The course gives a panoramic view of the development of the clinical psychoana-lytic thought from its origins to the current views that integrate the clinical models with empirical research identifying the main psychopathological areas of application of these theories for both clinical assessment and intervention, with a specific attention to psychoanalytic theories of sexual disorders and paraphilic conducts.

PREREQUISITES	No
WEBSITE	https://web.uniroma1.it/dip42/
CONTACT INFORMATION	riccardo.williams@uniroma1.it
REGISTRATION	Students should write to civis_openonlinecourses.ari@uniroma1.it indicating the name and code of the course and enclosing a transcript of records.

TITLE: Experimental methods in Social Neuroscience

Faculty of Medicine and Psychology

Internal code

1055041

LANGUAGE(S)	English	**LEVEL OF STUDY**	Master
CREDIT POINTS	6	**LIMITED ATTENDANCE**	40
THEMATIC CIVIS AREA(S)	Health	**OTHER DOMAIN OF STUDY**	**Cognitive NeuroscienceCognitive Neuroscience**
PERIOD	I semester	**DURATION**	48 hours

DESCRIPTION:

This course aims at providing an up-to date overview of the theories and research areas in the field of Social Neuro-science and offering a comprehensive view of the methods used in the field. In particular, it aims to promote an understanding of the social, clinical and technological potentiality of studies concerning social functions in neurotypical individuals, in the typical and atypical development, and in patients with psychiatric problems or with brain lesions

PREREQUISITES	Bachelor Degree
WEBSITE	https://dippsi.psi.uniroma1.it/
CONTACT INFORMATION	matteo.candidi@uniroma1.it
REGISTRATION	Students should write to civis_openonlinecourses.ari@uniroma1.it indicating the name and code of the course and enclosing a transcript of records.

TITLE: Methodology of nursing research & Nursing evidence

Faculty of Medicine and Psychology

Internal code

1051022

LANGUAGE(S)	English	**LEVEL OF STUDY**	Bachelor
CREDIT POINTS	2	**LIMITED ATTENDANCE**	5
THEMATIC CIVIS AREA(S)	Health	**OTHER DOMAIN OF STUDY**	**NursingNursing**
PERIOD	I semester	**DURATION**	24 hours

DESCRIPTION:

At the end of course the student will be able to know and understand and gain awareness of the usefulness of applying the statistical methodology to research.In particular, the student will be able to understand the components of a research process, research the available evidence in the literature, critically analyze a research article, Use evidence to make care decisions, describe and document the data.

PREREQUISITES	No
WEBSITE	https://web.uniroma1.it/dip_dmcm/
CONTACT INFORMATION	marco.dimuzio@uniroma1.it
REGISTRATION	Students should write to civis_openonlinecourses.ari@uniroma1.it indicating the name and code of the course and enclosing a transcript of records.

TITLE: General pathology

Faculty of Medicine and Psychology

Internal code

1051088

LANGUAGE(S)	English	**LEVEL OF STUDY**	Bachelor
CREDIT POINTS	2	**LIMITED ATTENDANCE**	5
THEMATIC CIVIS AREA(S)	Health	**OTHER DOMAIN OF STUDY**	**NursingNursing**
PERIOD	II semester	**DURATION**	24 hours

DESCRIPTION:

At the end of the course the student will be able to know and understand and relate the causes and effects of certain pathologies. In particular, the student will be able to: begin to have basic knowledge on the main human disease, be able to manage and integrate this knowledge with some methodological aspects of laboratory medicine, begin to develop a correct methodology to orientate in this field

PREREQUISITES	No
WEBSITE	https://web.uniroma1.it/dip_dmcm/
CONTACT INFORMATION	vincenzo.visco1@uniroma1.it
REGISTRATION	Students should write to civis_openonlinecourses.ari@uniroma1.it indicating the name and code of the course and enclosing a transcript of records.

TITLE: General pathophysiology

Faculty of Medicine and Psychology

Internal code

1051088

LANGUAGE(S)	English	**LEVEL OF STUDY**	Bachelor
CREDIT POINTS	1	**LIMITED ATTENDANCE**	5
THEMATIC CIVIS AREA(S)	Health	**OTHER DOMAIN OF STUDY**	**NursingNursing**
PERIOD	II semester	**DURATION**	12 hours

DESCRIPTION:

At the end of the course the student will be able to know and understand and relate the causes and effects of certain pathologies. In particular, the student will be able to: begin to have basic knowledge on the main human disease, be able to manage and integrate this knowledge with some methodological aspects of laboratory medicine, begin to develop a correct methodology to orientate in this field

PREREQUISITES	No
WEBSITE	https://web.uniroma1.it/dip_dmcm/
CONTACT INFORMATION	vincenzo.visco1@uniroma1.it
REGISTRATION	Students should write to civis_openonlinecourses.ari@uniroma1.it indicating the name and code of the course and enclosing a transcript of records.

TITLE: Clinical aspects of paraphilias and of the deviance

Faculty of Medicine and Psychology

Internal code

10591767

LANGUAGE(S)	English	**LEVEL OF STUDY**	Master
CREDIT POINTS	6	**LIMITED ATTENDANCE**	40
THEMATIC CIVIS AREA(S)	Health	**OTHER DOMAIN OF STUDY**	**Clinical PsychologyClinical Psychology**
PERIOD	II semester	**DURATION**	48 hours

DESCRIPTION:

The objectives of this course aim to give a global overview of the field of sexual deviance. In particular, psycho-social criteria will be used for the definition and classification of unusual sexual behaviors, paraphilic behaviors and interests, up to the diagnosis of paraphilic disorders. Both evaluation and therapeutic aspects will be addressed.

PREREQUISITES	No
WEBSITE	https://web.uniroma1.it/dip42/
CONTACT INFORMATION	guido.giovanardi@uniroma1.it
REGISTRATION	Students should write to civis_openonlinecourses.ari@uniroma1.it indicating the name and code of the course and enclosing a transcript of records.

TITLE: Cognitive Neuroimaging

Faculty of Medicine and Psychology

Internal code

1045031

LANGUAGE(S)	English	**LEVEL OF STUDY**	Master
CREDIT POINTS	6	**LIMITED ATTENDANCE**	40
THEMATIC CIVIS AREA(S)	Health	**OTHER DOMAIN OF STUDY**	**Cognitive NeuroscienceCognitive Neuroscience**
PERIOD	II semester	**DURATION**	48 hours

DESCRIPTION:

The course aims at providing a solid background on the main techniques used to image the human brain in vivo, and of their application in the cognitive neuroscientific field. Students will be provided a critical view of the validity and the limits of knowledge on the human mind derived by the application of such methods; a series of conceptual tools to personally and critically evaluate results obtained by research in the field of cognitive neuroimaging..

PREREQUISITES	Bachelor Degree
WEBSITE	https://dippsi.psi.uniroma1.it/
CONTACT INFORMATION	gaspare.galati@uniroma1.it
REGISTRATION	Students should write to civis_openonlinecourses.ari@uniroma1.it indicating the name and code of the course and enclosing a transcript of records.

TITLE: Perceptual and cognitive processing

Faculty of Medicine and Psychology

Internal code

1055054

LANGUAGE(S)	English	**LEVEL OF STUDY**	Master
CREDIT POINTS	6	**LIMITED ATTENDANCE**	40
THEMATIC CIVIS AREA(S)	Health	**OTHER DOMAIN OF STUDY**	**Cognitive NeuroscienceCognitive Neuroscience**
PERIOD	II semester	**DURATION**	48 hours

DESCRIPTION:

The course aims to provide basic methodological and theorical information on perceptual and cognitive functioning, learning and development. The interpretability of behavioural measures and their limits, and the nature of the probabilistic behaviour of decision-making are discussed. The course expands on the nature of the information processing stages in perception and cognition. Prac-tical and theorical competences in psychophysics and cognitive science are provided, as well as knowledge of the main computational models of the mind. These concepts and tools are presented in the context of understanding and assessing both adults and developing cognitive abilities

PREREQUISITES	Bachelor Degree
WEBSITE	https://dippsi.psi.uniroma1.it/
CONTACT INFORMATION	marialuisa.martelli@uniroma1.it
REGISTRATION	Students should write to civis_openonlinecourses.ari@uniroma1.it indicating the name and code of the course and enclosing a transcript of records.

TITLE: Clinical pathology

Faculty of Medicine and Psychology

Internal code

1051088

LANGUAGE(S)	English	**LEVEL OF STUDY**	Bachelor
CREDIT POINTS	1	**LIMITED ATTENDANCE**	5
THEMATIC CIVIS AREA(S)	Health	**OTHER DOMAIN OF STUDY**	**NursingNursing**
PERIOD	II semester	**DURATION**	12 hours

DESCRIPTION:

At the end of the course the student will be able to know and understand the role of the immune system in the pathophysiological mechanisms of the main organs and systems. In particular, the student will be able to know and understand the diagnostic, prognostic and therapeutic role of the immune system and of the diseases due to its dysregulation and to understand the clinical significance of some laboratory requests

PREREQUISITES	No
WEBSITE	https://web.uniroma1.it/dip_dmcm/
CONTACT INFORMATION	enrico.giarnieri@uniroma1.it
REGISTRATION	Students should write to civis_openonlinecourses.ari@uniroma1.it indicating the name and code of the course and enclosing a transcript of records.

TITLE: Clinical nursing in pediatric area

Faculty of Medicine and Psychology

Internal code

1049587

LANGUAGE(S)	English	**LEVEL OF STUDY**	Bachelor
CREDIT POINTS	2	**LIMITED ATTENDANCE**	5
THEMATIC CIVIS AREA(S)	Health	**OTHER DOMAIN OF STUDY**	**NursingNursing**
PERIOD	II semester	**DURATION**	24 hours

DESCRIPTION:

At the end of the course the student will be able to know and understand the therapeutic and care processes in the Child Mental Area. In particular, the student will be able to know and understand the specific training objectives of the training of professionals in the field of nursing discipline concerning the assistance of pediatric patients.

PREREQUISITES	No
WEBSITE	https://web.uniroma1.it/dip_dmcm/
CONTACT INFORMATION	valentina.biagioli@uniroma1.it
REGISTRATION	Students should write to civis_openonlinecourses.ari@uniroma1.it indicating the name and code of the course and enclosing a transcript of records.

TITLE: Diseases of the Nervous System

Faculty of Medicine and Surgery

Internal code

1038303

LANGUAGE(S)	English	**LEVEL OF STUDY**	Bachelor
CREDIT POINTS	5	**LIMITED ATTENDANCE**	no
THEMATIC CIVIS AREA(S)	Health	**OTHER DOMAIN OF STUDY**	
PERIOD	I semester	**DURATION**	20 hours

DESCRIPTION:

Motor system and sensory system, cranial nerves, emg/eng/ep and eeg, neuroimaging, movement disorders, coma and disorders of consciousness, epilepsy and sleep disorders, brain tumors, neuromuscular disorders, cognitive functions and dementia, stroke, liquor, multiple sclerosis, meningitis and encephalitis, traumatic brain injury and hydrocephalus, neurosurgery of the spinal cord.

PREREQUISITES	not necessary
WEBSITE	https://elearning.uniroma1.it/enrol/index.php?id=6645
CONTACT INFORMATION	alfredo.berardelli@uniroma1.it
REGISTRATION	Students should write to civis_openonlinecourses.ari@uniroma1.it indicating the name and code of the course and enclosing a transcript of records.

TITLE: Applied pathology III - Diseases of the digestive system, endocrine system and metabolism

Faculty of Medicine and Surgery

Internal code
1038303

LANGUAGE(S)	English	**LEVEL OF STUDY**	Bachelor
CREDIT POINTS	7	**LIMITED ATTENDANCE**	No
THEMATIC CIVIS AREA(S)	Health	**OTHER DOMAIN OF STUDY**	
PERIOD	II semester	**DURATION**	56

DESCRIPTION:

At the end of the teaching program the student will be able to Integrate the etiological and pathophysiological mechanisms of the diseases of the digestive tract with the clinical presentation. Analyse symptoms, signs, and investigations in orderly diagnostic algorithms. Comprehend the differences, similarities, and interplay between functional and organic gastrointestinal diseases. Comprehend the reciprocal interaction between environment, psychological status, and gastrointestinal function and diseases. Deal with patients' suffering for chronic gastrointestinal diseases.At the end of the teaching program the student will be able to integrate the etiological and pathophysiological mechanisms of pancreatic diseases with their clinical presentation Integrate the etiological and pathophysiological mechanisms of biliary tract diseases with their clinical presentation, analyse symptoms, signs, investigations and natural history in acute and chronic hepatitis with mentions on interventions, describe the etiology and pathophysiological mechanisms of liver cirrhosis and its complications, with indications on diagnostic algorithms, prevention and therapies, describe the diagnostic algorithms of liver masses with indications on the staging/treatment strategies for patients with hepatocellular carcinoma and cholangiocarcinoma. Knowledge (Gastroenterology): Gastroduodenal Diseases

Helicobacter pylori infection, Acute and Chronic gastritis and gastropathies, Peptic ulcer, Gastric tumors

Intestinal Diseases

Maldigestion and malabsorptionm, Celiac Disease, Inflammatory Bowel Diseases, Diverticular Disease, Rectocolonic tumors

Functional Gastrointestinal Diseases

Dyspepsia, Irritable Bowel Syndrome, Constipation, Diarrhea

Anorectal Diseases

Fecal Incontinence

Acute and chronic pancreatitis. Pancreatic cancer

Acute and chronic hepatitis

Liver cirrhosis and its complications

Non malignant biliary tract diseases

Hepatocellular carcinoma and other liver masses

Liver transplantation in the adult recipient

Emergencies in gastroenterology: digestive bleeding and intestinal occlusion

PREREQUISITES	not necessary
WEBSITE	https://corsidilaurea.uniroma1.it/it/corso/2021/30893/home
CONTACT INFORMATION	flaminia.ferri@uniroma1.it
REGISTRATION	Students should write to civis_openonlinecourses.ari@uniroma1.it indicating the name and code of the course and enclosing a transcript of records.

TITLE: Applied pathology III - Diseases of the digestive system, endocrine system and metabolism

Faculty of Medicine and Surgery

Internal code
1038303

LANGUAGE(S)	English	**LEVEL OF STUDY**	Bachelor
CREDIT POINTS	5	**LIMITED ATTENDANCE**	No
THEMATIC CIVIS AREA(S)	Health	**OTHER DOMAIN OF STUDY**	
PERIOD	II semester	**DURATION**	40 hours

DESCRIPTION:

Definition and classification of diabetes mellitus, type 1 diabetes, type 2 diabetes and other specific types, chronic complications of diabetes (micro and macroangiopatic) acute complications , metabolic syndrome, obesity and thinness, dyslipidemia with reference, especially, to the patient with diabetes. Pathophysiology, pathogenesis, clinical presentation, differential diagnosis, therapy of endocrinological diseases of diabetological interest.

PREREQUISITES	not necessary
WEBSITE	https://corsidilaurea.uniroma1.it/it/corso/2021/30893/home
CONTACT INFORMATION	antonio.siena@uniroma1.it
REGISTRATION	Students should write to civis_openonlinecourses.ari@uniroma1.it indicating the name and code of the course and enclosing a transcript of records.

TITLE: Emergency Medicine and Surgery

Faculty of Medicine and Surgery “F” International Medical School

Internal code

1038306

LANGUAGE(S)	English	**LEVEL OF STUDY**	University Degree
CREDIT POINTS	10	**LIMITED ATTENDANCE**	no
THEMATIC CIVIS AREA(S)	Medicine	**OTHER DOMAIN OF STUDY**	
PERIOD	Second semester	**DURATION**	40

DESCRIPTION:

The course aims to provide students with the theoretical and practical tools for managing the main medical emergencies (acute respiratory failure, acute myocardial ischemia, acute neurological syndromes, cardiovascular and respiratory assistance), and surgical emergencies (management of polytrauma, abdominal pain, major non-traumatic abdominal surgical emergencies), on the basis of the main International Guidelines, in order to favor their application and shared management throughout all European Nations

PREREQUISITES	basic knowledges of physiology, pathophysiology, pharmacology and semeiotics
WEBSITE	https://corsidilaurea.uniroma1.it/it/corso/2021/30893/home
CONTACT INFORMATION	luigi.petramala@uniroma1.it; claudio.letizia@uniroma1.it; andrea.mingoli@uniroma1.it
REGISTRATION	Students should write to civis_openonlinecourses.ari@uniroma1.it indicating the name and code of the course and enclosing a transcript of records.

TITLE: DISEASES OF THE SENSORY ORGANS

Faculty of Medicine and Dentistry and Pharmacy and Medicine

Internal code

1038299

LANGUAGE(S)	English	**LEVEL OF STUDY**	Students of Fifth year
CREDIT POINTS	8	**LIMITED ATTENDANCE**	
THEMATIC CIVIS AREA(S)	Health	**OTHER DOMAIN OF STUDY**	
PERIOD		**DURATION**	

DESCRIPTION:

The main objective of the Course of the diseases of the sensory organs is to train doctors and to implement the knowledge in ORL, visual apparatus, Maxillofacial Surgery and Oral Diseases

PREREQUISITES	
WEBSITE	
CONTACT INFORMATION	
REGISTRATION	Students should write to civis_openonlinecourses.ari@uniroma1.it indicating the name and code of the course and enclosing a transcript of records.

TITLE: Anatomy II

Faculty of Pharmacy and Medicine/Medicine

Internal code

1037601

LANGUAGE(S)	English	**LEVEL OF STUDY**	Master
CREDIT POINTS	7	**LIMITED ATTENDANCE**	YES
THEMATIC CIVIS AREA(S)	Health	**OTHER DOMAIN OF STUDY**	
PERIOD	first semester	**DURATION**	12 weeks - 48 hours

DESCRIPTION:

Learners who successfully achieve this module will acquire knowledge of the structural organization and functions of the human body and their main anatomical and clinical applications at a macroscopic, microscopic and ultrastructural level. Main skills are: to identify macroscopic anatomical samples; to recognize the structure of the organs by light microscopy.

PREREQUISITES	Knowledge of the main cytologic and histologic characteristics of the human body; knowledge of human embryology; knowledge of the anatomy of the musculoskeletal system and of the heart.
WEBSITE	https://corsidilaurea.uniroma1.it/it/corso/2021/30893/home
CONTACT INFORMATION	stafania.nottola@uniroma1.it
REGISTRATION	Students should write to civis_openonlinecourses.ari@uniroma1.it indicating the name and code of the course and enclosing a transcript of records.

TITLE: Paediatrics

Faculty of Pharmacy and Medicine/Medicine

Internal code

1038831

LANGUAGE(S)	English	**LEVEL OF STUDY**	Master
CREDIT POINTS	6	**LIMITED ATTENDANCE**	YES
THEMATIC CIVIS AREA(S)	Health	**OTHER DOMAIN OF STUDY**	
PERIOD	First semester	**DURATION**	72 hours

DESCRIPTION:

Main teaching objectives: Learning physiology, pathology, clinical and laboratory approach, therapy related to growing individuals, specific issues of preventive pediatrics, pediatric diseases from neonatal age through adolescence. a) Normal neurological and mental development of children (neuromotor development, language and communication development, affective development)

b) Epidemiology and clinical presentation of psychiatric disorders in children and adolescents

c) Developmental disorders: definition, epidemiology and nosography (autistic spectrum disorders, intellective disability, learning disorders)

d) Nosography and etiology of neurological disorders in children (semiology of neurological disorders emerging during the first 3 years of life; primary and acquired neurological conditions during childhood and adolescence)

e) Presenting symptoms and diagnostic work-up in neurological and psychiatric disorders in children and adolescents

PREREQUISITES	A basic knowledge of medical pathology and pharmacology is required.
WEBSITE	https://corsidilaurea.uniroma1.it/it/corso/2021/30893/home
CONTACT INFORMATION	raffaella.nenna@uniroma1.it
REGISTRATION	Students should write to civis_openonlinecourses.ari@uniroma1.it indicating the name and code of the course and enclosing a transcript of records.

TITLE: Immunology and Immunopathology

Faculty of Pharmacy and Medicine/Medicine

Internal code

1038231

LANGUAGE(S)	English	**LEVEL OF STUDY**	Master
CREDIT POINTS	8	**LIMITED ATTENDANCE**	YES
THEMATIC CIVIS AREA(S)	Health	**OTHER DOMAIN OF STUDY**	
PERIOD	First semester	**DURATION**	96 hours

DESCRIPTION:

Main teaching objectives:

To understand the molecular and cellular basis of the immune response. To understand the fundamental mechanisms responsible for protection and for tissue damage, and to comprehend their specific role in the resistance against pathogens, the immune surveillance against tumors, and immune-mediated diseases. To be able to describe the main events and mechanisms that define the development of protective and pathological immune responses. To understand how research activity contributes to the evolution of knowledge in the immunology field.

PREREQUISITES	Students need to possess the knowledge of microbiology, biochemistry, genetics and cell biology, physiology, and anatomy.
WEBSITE	https://corsidilaurea.uniroma1.it/it/corso/2021/30893/home
CONTACT INFORMATION	gabriella.palmieri@uniroma1.it
REGISTRATION	Students should write to civis_openonlinecourses.ari@uniroma1.it indicating the name and code of the course and enclosing a transcript of records.

TITLE: Nanotechnologies

Faculty of Farmacia e Medicina, SMFN

Internal code

10598575

LANGUAGE(S)	English	**LEVEL OF STUDY**	Bachelor
CREDIT POINTS	6	**LIMITED ATTENDANCE**	
THEMATIC CIVIS AREA(S)	Health	**OTHER DOMAIN OF STUDY**	
PERIOD	first semester (October-January)	**DURATION**	48 hours

DESCRIPTION:

Nanothechnology applications, drug delivery and targeting strategies

PREREQUISITES	
WEBSITE	https://corsidilaurea.uniroma1.it/en/corso/2021/31179/home
CONTACT INFORMATION	Carlotta Marianecci and Paola Baiocco
REGISTRATION	Students should write to civis_openonlinecourses.ari@uniroma1.it indicating the name and code of the course and enclosing a transcript of records.

TITLE: General Surgery I

Faculty of Pharmacy and Medicine/Medicine

Internal code

10596621 (partial)

LANGUAGE(S)	English	**LEVEL OF STUDY**	Master
CREDIT POINTS	2	**LIMITED ATTENDANCE**	Yes
THEMATIC CIVIS AREA(S)	Health	**OTHER DOMAIN OF STUDY**	
PERIOD	second	**DURATION**	24

DESCRIPTION:

General surgery in the integrated approach to clinical medicine, clinical oncology and radiotherapy.

PREREQUISITES	none
WEBSITE	https://corsidilaurea.uniroma1.it/it/corso/2021/30893/home
CONTACT INFORMATION	giuseppe.nigri@uniroma1.it
REGISTRATION	Students should write to civis_openonlinecourses.ari@uniroma1.it indicating the name and code of the course and enclosing a transcript of records.

TITLE: Anatomy III

Faculty of Pharmacy and Medicine/Medicine

Internal code

1037601

LANGUAGE(S)	English	**LEVEL OF STUDY**	Master
CREDIT POINTS	7	**LIMITED ATTENDANCE**	YES
THEMATIC CIVIS AREA(S)	Health	**OTHER DOMAIN OF STUDY**	
PERIOD	Second semester (March-June)	**DURATION**	82 hours

DESCRIPTION:

• Neuroanatomy: Overview of the Central Nervous System. Spinal cord. Brain stem. Cerebellum. Diencephalon. Basal ganglia. Cerebral hemisphere. Ventricular system, subarachnoid spaces and meninges. Motor pathways. Pathways of the general and the specific sensibility.

• Peripheral nervous system: Generalities. Spinal nerves. Plexuses. Cranial nerves. Organization of the Autonomic Nervous System.

• Visual apparatus: Orbit and accessory visual apparatus. Eyeball. Visual Pathway.

• Auditory apparatus: External and middle ear. Internal ear. Pathway of sound reception.

• Endocrine system: Generalities. Hypothalamus and its nuclei. Pituitary gland. Pineal gland. Thyroid and parathyroid glands. Adrenal gland. Endocrine Pancreas. Interstitial glands of testis and ovary

PREREQUISITES	Knowledge of the main cytologic and histologic characteristics of the human body; knowledge of human embryology; knowledge of the anatomy of the musculoskeletal system and of the heart; knowledge of the anatomy of splanchnic viscera
WEBSITE	https://corsidilaurea.uniroma1.it/it/corso/2021/30893/home
CONTACT INFORMATION	eugenio.gaudio@uniroma1.it
REGISTRATION	Students should write to civis_openonlinecourses.ari@uniroma1.it indicating the name and code of the course and enclosing a transcript of records.

TITLE: Pharmaceutical Chemistry

Faculty of Farmacia e Medicina, Ingegneria dell'Informazione, Informatica e Statistica, SMFN, Medicina e Odontoiatria

Internal code

1049264

LANGUAGE(S)	English	**LEVEL OF STUDY**	Bachelor
CREDIT POINTS	6	**LIMITED ATTENDANCE**	
THEMATIC CIVIS AREA(S)	Health	**OTHER DOMAIN OF STUDY**	
PERIOD	Second semester (March-June)	**DURATION**	72 hours

DESCRIPTION:

Drug discovery and development process, drug-target interactions, physicochemical properties related to drug action such as acid-base properties, equilibrium, and stereochemistry,

PREREQUISITES	
WEBSITE	https://corsidilaurea.uniroma1.it/it/corso/2021/30422/home
CONTACT INFORMATION	Giovanna Poce
REGISTRATION	Students should write to civis_openonlinecourses.ari@uniroma1.it indicating the name and code of the course and enclosing a transcript of records.

TITLE: COMPARATIVE POLITICS

Faculty of Political Sciences Sociology Communication

Internal code

1052210

LANGUAGE(S)	English	**LEVEL OF STUDY**	MA
CREDIT POINTS	9	**LIMITED ATTENDANCE**	no
THEMATIC CIVIS AREA(S)	Cities, territory and mobility	**OTHER DOMAIN OF STUDY**	
PERIOD	Second semester	**DURATION**	72

DESCRIPTION:

Goals: The main objective of the course is to provide an advanced competence of the political processes. The course will dedicate a specific part to the relationship between systems of expertise and politics, in a comparative key. Knowledge and ability to understand: Students will be able to understand the functioning of different political systems, with particular attention to the functioning of parties, institutions, interest groups and think tanks. Ability to apply knowledge and understanding: The student will be enabled to understand the provision of the various political regimes: democratic, authoritarian, totalitarian. Autonomy of judgment: The student must possess the fundamental skills that allow him / her to analyze, in an autonomous and critical way, a decision making process and the functioning of the institutions. Communication skills: The essential objective is to build specialized communication skills in the field of political science, which facilitate the professionalization of the student's skills. Learning ability: learning skills will be developed and tested on different levels: through interaction with the class and the teacher, experts in the field, construction of reports and presentations in the classroom. Expected results: The goal is to create the first knowledge that can be spent at institutions, parties and interest groups

PREREQUISITES	no
WEBSITE	1052210 - COMPARATIVE POLITICS | Catalogo dei Corsi di studio (uniroma1.it)
CONTACT INFORMATION	marco.morini@uniroma1.it
REGISTRATION	Students should write to civis_openonlinecourses.ari@uniroma1.it indicating the name and code of the course and enclosing a transcript of records.

TITLE: EUROPEAN UNION LAW AND HUMAN RIGHTS

Faculty of Political Sciences Sociology Communication

Internal code

1052211

LANGUAGE(S)	English	**LEVEL OF STUDY**	MA
CREDIT POINTS	9	**LIMITED ATTENDANCE**	no
THEMATIC CIVIS AREA(S)	Society, cultures and European heritage	**OTHER DOMAIN OF STUDY**	
PERIOD	Second semester	**DURATION**	72

DESCRIPTION:

The course aims at providing students with the knowledge that is necessary to comprehend the structure of the European Union and the functioning of its institutions, scope and effects of the EU legal sources with particular regard to the protection of fundamental rights in the external dimension of the Union's action in the perspective of sustainable development. The course is based on the method of legal analysis of institutions, normative acts and procedures. Students will acquire the skills necessary to read and comprehend EU legal acts and European Court of Justice judgments and opinions, as well as national legislative and judiciary acts. Moreover, they will be able to apply the acquired skills in the context of future legal research as well as in the context of professional activities. The acquired skills will enable students to critically analyze the EU policies and reach conclusions in autonomy on the basis of a rigorous application of the scientific method of legal analysis. The constant involvement of students during classes, including through the possibility to present individual or group researches on specific topics and the participation in discussions will develop the students' communication skills. The course aims at supporting students in developing a proper study method, which will enable them to address, analyze and learn complex matters.

PREREQUISITES	no
WEBSITE	1052211 - EUROPEAN UNION LAW AND HUMAN RIGHTS | Catalogo dei Corsi di studio (uniroma1.it)
CONTACT INFORMATION	alessandra.mignolli@uniroma1.it
REGISTRATION	Students should write to civis_openonlinecourses.ari@uniroma1.it indicating the name and code of the course and enclosing a transcript of records.

TITLE: GLOBALIZATION HISTORY

Faculty of Political Sciences Sociology Communication

Internal code

1052207

LANGUAGE(S)	English	**LEVEL OF STUDY**	MA
CREDIT POINTS	9	**LIMITED ATTENDANCE**	no
THEMATIC CIVIS AREA(S)	Cities, territory and mobility	**OTHER DOMAIN OF STUDY**	
PERIOD	Second semester	**DURATION**	72

DESCRIPTION:

The aim of the course is to provide the basic knowledge for the analysis and understanding of the evolution of the international political system since the 1840s, focusing on colonialism, decolonization, and globalization. Through the study of these topics students will be able to acquire the knowledge and the interpretative skills necessary to understand the main dynamics of history of international relations and the globalization process. The inclusion of on-going audits in the form of short presentations and discussions by the students will also provide the necessary critical elements and a concrete capacity for analysis.

PREREQUISITES	no
WEBSITE	1052207 - GLOBALIZATION HISTORY | Catalogo dei Corsi di studio (uniroma1.it)
CONTACT INFORMATION	alessandro.vagnini@uniroma1.it
REGISTRATION	Students should write to civis_openonlinecourses.ari@uniroma1.it indicating the name and code of the course and enclosing a transcript of records.

TITLE: HISTORY OF INTERNATIONAL AND EUROPEAN RELATIONS

Faculty of Political Sciences Sociology Communication

Internal code

10589486

LANGUAGE(S)	English	**LEVEL OF STUDY**	MA
CREDIT POINTS	9	**LIMITED ATTENDANCE**	no
THEMATIC CIVIS AREA(S)	Cities, territory and mobility	**OTHER DOMAIN OF STUDY**	
PERIOD	Second semester	**DURATION**	72

DESCRIPTION:

The objective of the course is to offer adequate knowledge for the analysis and understanding of the evolution of the international system starting from the Paris Peace Conference and the end of the colonial system. Particular attention will be given to the history of the European integration process and to the continental dynamics. Through the study of the topics covered, students will acquire the knowledge and interpretative skills necessary to understand the main dynamics of the history of international relations. The inclusion of verifications in itinere in the form of short presentations and discussions in the classroom by students should also provide the necessary critical elements and a concrete ability to analyze.

PREREQUISITES	no
WEBSITE	10589486 - HISTORY OF INTERNATIONAL AND EUROPEAN RELATIONS | Catalogo dei Corsi di studio (uniroma1.it)
CONTACT INFORMATION	alessandro.vagnini@uniroma1.
REGISTRATION	Students should write to civis_openonlinecourses.ari@uniroma1.it indicating the name and code of the course and enclosing a transcript of records.