

P45

Amsterdam North, city and port

Nicolas Pham

nicolas.pham@versailles.archi.fr

The origins of Amsterdam's urban fabric lie in the city's position as a commercial hub between the Scandinavian countries, which supplied raw materials (particularly wood), and the countries of southern Europe, which supplied processed materials (fabrics, tools, food products). The city layout was therefore first and foremost a system for distributing and storing these goods.

Until the 19th century, the city and the port were one and the same, but industrial change, the need to store coal, oil and ore, and the shipyards led the port to become specialised by sector, dissociating it from the city.

Today, as the city undergoes a new transformation (de-industrialisation, urban growth, societal change), the question of statuses – city, port and urban agriculture – is at the core of the contemporary issues of the productive city. The post-industrial wasteland situation has also given rise to situations of renaturation, which today make a significant contribution to biological diversity.

This process of urban change will take place over a decade and will raise the question of the loss of biodiversity, which now occupies a central position in urban planning.

P45's work is being developed in parallel with the city's urban policy and is being confronted with reality.

TARGET SKILLS

- ▶ Acquiring knowledge, developing critical thinking and methodology
- ▶ Using drawings and models as tools for thinking, analysing, measuring, formalising and writing, to reflect on the ways in which spaces can be shared by activities that are usually dissociated

MCC

LANGUAGES
EN + FR

ECTS

16

PARTNER

TU Delft

HOURLY VOLUME

120 h

The first phase will take the form of an intensive workshop, in groups, during which the issues and options for action on an urban scale will be identified (20%). During the second phase, the work carried out by teams will focus more specifically on identifying sites for intervention, and formulating strategies for change and programmes to be developed (30%). Finally, during the third phase, students will work individually on selected sectors to develop architectural projects consistent with the intervention strategies defined by the group.

Each of the three phases will give rise to a specific report (summary notes, graphic designs and models). Presentations of weekly work will be the subject of collective reviews, which will require the attendance of all participants.

«Plan A» is over. Time for «Plan B» in water territories

TRIENNAL TOPIC

Building worlds of co-existences

Emilie Gascon

emilie.gascon@versailles.archi.fr

Tristan Denis
Lawan-Kila Toe

This workshop proposal is part of the school's approach to training students in the physical and socio-political realities of tomorrow's world.

It provides architecture students with advanced training in urban and regional projects, with input from the landscape, ecology, hydrology, climate, etc. At Master's level, this proposal is an introduction to potential doctoral work. The sites studied are water territories, so the geographical unit is the river basin. French oceanic climates are investigated for this cycle.

Plan A attempts to solve problems without addressing the underlying causes, which are political and societal, and which necessarily influence projects.

Designing plans B, through the radicality and boldness they imply, should enable to understand these socio-political environments in order to challenge them in and through the project.

The aim of this workshop is to give architects a clear idea of their ability to commit themselves over time. From this point on, the project must move away from a «one size fits all» approach of the perfect, definitive object to develop its dynamic potential through a range of strategies, all of which consist, in one way or another and on different scales, in transforming a given situation.

TARGET SKILLS

- ▶ Ability to carry out a technical and sensitive analysis of the area and identify the issues
- ▶ Ability to problematise an approach and find relevant information to address the issue
- ▶ Ability to analyse results and articulate their lessons in a project serving a vision
- ▶ Ability to plan an urban, landscape and territorial strategy combining different scales and timeframes

HOURLY VOLUME

120 h

MCC

LANGUAGE:
EN

ECTS

16

Intermediate output 50%

Final report 40%

Personal investment 10%

Even if the course is set up for the international master, it is open to all

IP Intangible project

TRIENNAL TOPIC

Building worlds of co-existences

Fabien Duchêne

fabien.duchene@versailles.archi.fr

The origins of Amsterdam's urban fabric lie in the city's position as a commercial hub between the Scandinavian countries, which supplied raw materials (particularly wood), and the countries of southern Europe, which supplied processed materials (fabrics, tools, food products). The city layout was therefore first and foremost a system for distributing and storing these goods.

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P45's work is being developed in parallel with the city's urban policy and is being confronted with reality.

TARGET SKILLS

- ▶ **THEORY** : Understanding the notion of a dynamic immaterial user and game design
- ▶ **WRITING** : a narrative and dynamic architectural programme
- ▶ **REPRESENTATION** : Learning real-time architectural design tools (Unreal Engine 5)

MCC

- ▶ The output will be an executable file allowing to experience a space through a simulated journey
- ▶ The P45 concludes with the launch of the game on the Itch.io platform at ENSA Versailles. Students are responsible for communicating about their project and post-launch follow-up

ECTS

16

LANGUAGES
EN + FR

PARTNER

Focus Entertainment

HOURLY VOLUME

120 h

Invisible Metropolis

The islands of transition

TRIENNAL TOPIC

Foreign languages

Ingrid Taillandier
Matthias Armengaud

ingrid.taillandier@versailles.archi.fr
matthias.armengaud@versailles.archi.fr

The studio investigates the mutation (or disappearance) of the principles that regulate the frameworks of system architectures, challenged by the multiplication of transitory conflicts: between infrastructures and uses, between production sites and culture, between logistics and public spaces, between nature and void...

The answer wouldn't solely lie in the architectural rhetoric or the authority of a planning that would rectify discrepancies, but in a series of project-based tools that would help to understand the multiplicity of revealed phenomena, at several levels: how to make room for the living and its inspirations, to allow hybrid landscapes to blossom, towards a 'post-zoning' metropolis.

By examining sites and subjects such as the water systems in Cistercian abbeys, the study of mycelium, the networks that shape urban planning such as those for waste, and the work of artists such as John Cage and Rimini Protokoll, we will successively address night, fallow land and slowness.

LANGUAGE:
EN

Even if the course is set up for the international master, it is open to all



PARTNER

- Harvard GSD
- Institut für Städtebau
- University of Pennsylvania Weitzman School of Design
- KIT Karlsruher Institut für Technologie
- Oslo University

HOURLY VOLUME

120 h

TARGET SKILLS

- ▶ Developing tools for critical analysis of complex territories
- ▶ Mastering the interaction between highly diverse scales, such as time or carbon emissions amounts
- ▶ «Instant» planning: collective and interdisciplinary workgroup, tactical temporary urbanism
- ▶ Territorial reconfiguration: strategy and urban narrative
- ▶ Developing an intensity, an architectural or dimensional design that can radiate and attract surrounding uses

MCC

- ▶ continuous monitoring 15%
- ▶ mid term 25%
- ▶ final review 60%

INDICATIVE BIBLIOGRAPHY

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ECTS

16

Housing, heritage, landscape

Three challenges for smaller centers in decline

Eastern Sicily

TRIENNAL TOPIC

Environments, rural areas and metropolises

Roberta Borghi (coordinator)
Anne-Sylvie Bruel
Franca Malservisi

roberta.borghi@versailles.archi.fr

In continuation of previous years, this P45 is part of the three-year topic ('Environments, rural areas and metropolises'), through a look at territories in decline (economically, demographically and socially) and excluded from the dynamics and services of major urban and metropolitan systems. We will try to understand the factors that have led to this situation and, at the same time, to identify the virtuous dynamics in the relationship between the territory, local resources, resident practices, which can inspire other ways of living in these areas.

Questions are emerging: what are these territories made of? How do people live in them and form communities? How can these territories respond in different ways to the challenges of ecological transition and the multiple crises (ecological, health, economical, political) that we are facing? To answer these questions, we will continue our study of Italy, focusing on the case of Sicily, which we began working on during the previous year.

PARTNER
University of
Catania,
Department of Civil
Engineering and
Architecture

HOURLY VOLUME

120 h

ECTS

16

LANGUAGES
FR + EN

TARGET SKILLS

- ▶ Developing an understanding of territories at the crossroads of different disciplines, scales and narratives
- ▶ Conceiving the project as a tool for building knowledge and developing critical thinking about the potential for transforming an inhabited area
- ▶ Learning tools for reading the territorial palimpsest, and getting to grips with the landscape and public spaces project
- ▶ Learning how to interpret and act on built heritage

MCC

- ▶ Active participation in sessions
- ▶ Weekly progress reports
- ▶ Production of a mid-term booklet documenting the observations made during the field trip, the analysis of the project area and the preliminary plans for the project
- ▶ Final delivery of boards, of a booklet and a presentation of the project

PREREQUISITES

- ▶ Being motivated and genuinely interested in the subject of the workshop
- ▶ Mastering plan, section and elevation representation

VALORISATION

- ▶ Presentation of the final work to the elected officials of the partner city
- ▶ Booklets presenting the results of the analysis and project proposals

Architecture of energies

TRIENNAL TOPIC

Environments, rural areas and metropolises

Nicolas Dorval-Bory

nicolas.dorval-bory@versailles.archi.fr

The research we would like to undertake here lies at the crossroads of experimental foresight, history of technologies and environmental history. We wish to understand where architects stand today in the climate crisis, which is a technical crisis around carbon footprint but also a cultural crisis in terms of the position of our species - now seen as a geological force - in its environment..

This three-year project focuses on the mode of interaction with the environment through energy.

These energies, which can be described as decarbonised, are based on the availability of supposedly inexhaustible resources, and we have grouped them into three categories: solar energy, nuclear energy and environmental energy.

Each of these three fields allows for a specific approach to territories, but also to systems that have left their mark on the architectural field in recent history. After nuclear power in 2023, the P45 will cover hydraulic infrastructure (dams, reservoirs, turbines) in 2024, followed by wind power in 2025.

TARGET SKILLS

- ▶ Understanding the basic physical phenomena at work in the studied constructions
- ▶ Understanding societal developments around the energy challenge
- ▶ Understanding the relationship between a physical phenomenon and a spatial context

MCC

- ▶ Case study: 3 weeks, 20%
- ▶ Phenomenon (analysis): 3 weeks, 20%
- ▶ Project: 6 weeks, 50%
- ▶ Punctuality and commitment: 10%

ECTS

16

LANGUAGES
FR + EN

Outil 1

Research and communication tools

Emilie Gascon

emilie.gascon@versailles.archi.fr

The Research Initiation Tool 2 “Research and communication tools” is part of the international master “Towards territorial transition” (niv-TTT).

Researchers, especially in the fields of design and planning, use a large variety of tools to conduct their research and communicate on it: geographic maps, semantic maps, geometric maps, hybrid or sensitive maps, analysis grids, on-site observations drawings, pictures, videos, sounds captures, etc. This diversity is intimately related to our fields of investigation but also the individualities of the researchers and their own appetites and cognitive logic. The strength of these tools is to be both research media for themselves and communication supports for others, which is the aim of all research: the production of knowledge for others.

In the beginning, students will bring a subject they are willing to develop during their master thesis, and during the course, to start their explorations, they will have to choose a tool and conduct their first research through this tool. With this course, students will acquire knowledge on diverse tools but also skills to develop their personal preferred tool according to their selected subject.

TARGET SKILLS

- ▶ Knowledge acquisition on the theories and specifications of the selected tool
- ▶ Capacity to select a tool or diverse tools according to the chosen subject
- ▶ Capacity to adopt a tool or diverse tools and to adapt it to personal cognitive logic

MCC

Two results are observed.

- ▶ Analysis of the specifications of the selected tool(s). Oral presentation. Grade 25%
- ▶ Exploration of the chosen subject through the chosen tool(s). One A1 format panel and an oral presentation. Grade 65%
- ▶ 10 % of the graduation is left for investment, regularity or progress valorisation.

ECTS

5

LANGUE :
EN

Even if the course is set up for the International master, it is open to all.

Tool 2

Renaturing the Greater Paris 2050

Magali Paris

magali.paris@versailles.archi.fr

PARTNER

Designers, managers and experts of green spaces in Paris

The aim of this course is to create an environmental fiction about an area in the Greater Paris Northern Area and to examine the project's potential as a provider of knowledge. It is part of the updating of the green-blue grid of the 'Plaine Commune' of Greater Paris. This framework involves identifying the biodiversity nodes and ecological corridors that enable animals to move around; the cartography includes existing hubs and corridors that need to be preserved or transformed, and those that need to be created. The transformation and creation of the framework is currently considered from the perspective of renaturation. Which areas of the 'Plaine Commune' could be renaturated? How could this be done? If a particular area is considered for renaturation, what would be the consequences at different levels and for the various human and non-human parties involved? To answer these questions, we intend to take a speculative view of 2050 in the light of the many crises to come, and to combine a written and illustrated narrative with an in situ approach.

HOURLY VOLUME

32 h

TARGET SKILLS

- ▶ Formulating a question
- ▶ Crossing fictional approach to reality on the ground
- ▶ Decenter the look

MCC

LANGUAGES
FR + EN

VALORISATION

Individual or paired marking: a piece of written fiction of no more than 2,000 characters, a summarising image of this fiction in A2 format, a selection of 8 black and white A5 photographs, a short article of 6,000 characters maximum describing the way in which the fieldwork and fiction confirm, shift or redirect the initial questioning.

The students' works will be used in an educational publication.

ECTS

5

Courses in English or in hybrid depending on the composition of the group of students.

*Note: A good level of English is not a prerequisite for this course, only a desire to progress, discover and share is necessary.

Tool 2

20th century architectural heritage, analysis methods and knowledge The building as a document

TD/
Seminar

Paola Scaramuzza

paola.scaramuzza@versailles.archi.fr

The purpose of this introductory research course is to train students in the analysis of architectural heritage of the 20th century. The course offers methodological training to enable students to find their way around the compilation and organisation of the numerous sources of data that need to be acquired during the phase of understanding a building in preparation for a conservation, re-use or rehabilitation project.

The course presents a 'knowledge path' that guides the student through the various actions and subjects to be addressed.

Gradually, the concepts and weekly case study assignments will enable students to carry out and develop detailed analyses and diagnostics, collecting and organising data on the status of architectural materials and components.

This introduction to research aims at developing students' skills in research and organisation of knowledge, particularly in the context of the 20th century heritage. It also aims at developing their architectural, urban and territorial expertise on a given subject.

TARGET SKILLS

► Knowledge of architectural analysis and diagnostic tools. These tools and methods can be reused as part of a master's or doctoral dissertation, or in the context of professional activities

MCC

Weekly exercises during the course, assessed at the end of the semester. Individual final report with an oral presentation together with a visual support

VALORISATION

The students' works will be used in an educational publication.

LANGUAGES
FR + EN

ECTS

5

For foreign students:
the application and exam can
be submitted in English.

C45

Seminar

Towards Territorial Transition : for a new metabolism

Matthias Armengaud

matthias.armengaud@versailles.archi.fr

HOURLY VOLUME

32 h

TARGET SKILLS

- Understanding the challenges of sustainable development on an urban scale
- Carrying out research on specific topics and extracting summary analyses from it

MCC

Assessment of the A4 booklets produced by students, organised in groups of 2 or 3, summarising their work

LANGUAGES
FR + EN

VALORISATION

Publication of a booklet summarising the students' work at the end of C45

ECTS

2

Because there is an urgent need to share a new scale of thinking adapted to the challenge of climate change and future urban transformations. The crucial issue for many institutions and major contracting authorities is to find the right scale, measure and territorial guidelines to initiate a shift in the systems we know. «Towards Territorial Transition» will present case studies, public policies, strategies, concepts and large-scale spatial approaches to decarbonisation and ecological transformation.

The course will look at the following themes: density, natural networks, mobility, water, waste, digital technology and energy, from the perspective of new stakeholders' platforms, resources, scale, transition over time, the notion of territory and the state of uncertainty.

The course will be made up of presentations by external speakers and students' own work on the covered themes. The students will be divided into groups of 2 or 3, and will have to study one of the suggested themes. The report will be in the form of a critical analysis illustrated booklet in pdf format with specific data, sometimes specifically edited, and delivered at the end of the course.

P45

Project

Desert workshop

TRIENNAL TOPIC

Environments, rural areas and metropolises

Alice Grégoire

alice.gregoire@versailles.archi.fr

HOURLY VOLUME

120 h

At the centre of the Algerian Sahara, Ghardaïa is the main town in the M'zab pentapolis, an urban and agricultural settlement founded in the 11th century and still active today.

The desert's extreme climate has given rise to a highly specific type of urban planning and climatic architecture, centred around the sharing of water, the cultivation of palm trees and the control of urban and domestic thermal phenomena through the ingenious exploitation of resources and spatial innovations.

The metropolitan complex was conceived as a self-sufficient organism, and its catalogue of climatic construction techniques is a mine of inspiration today.

We'll be visiting the M'Zab and carrying out on-site survey work. On our return to France, we'll start by creating prototypes of climatic installations using specific construction techniques (stone, raw earth, wood, plaster). These will subsequently be extrapolated to become projects adapted to our latitudes, in an inevitably less favourable future.

The study of Ghardaïa will enable us to put into perspective contemporary issues in terms of climate emergency, spatial approach, use of resources and materials, and the associated social issues..

TARGET SKILLS

- ▶ Developing a project from the middle onwards: from the survey to the system, then from the system to the project
- ▶ Thinking across project scales, transcalar approach: territory and system, cartography and scale model, studying cross-disciplinary themes.
- ▶ Through the study of André Ravéreau, a pioneer in French ecological architecture, being able to apply the legacy of his 'lesson from the M'Zab' to a contemporary project.

MCC

- ▶ attendance, curiosity, participation
- ▶ quality of rendering, display, mock-ups and drawings
- ▶ ability to listen and establish a dialogue
- ▶ ability to work alone and as part of a group
- ▶ problematising, experimenting with scenarios, then taking a stand
- ▶ evolution and progression of the work throughout the semester

ECTS

16

LANGUAGES
EN

Whether we are interested in what the American geographer Neil Brenner calls 'operational territories' (all natural environments as they are transformed by the exploitation of their resources), in the regional and environmental impact of the development of metropolises such as Chicago (William Cronon), Los Angeles (Mike Davis) or Athens (Maria Kaika), in the territorial upheavals caused by the exploitation of natural resources such as water (Erik Swyngedouw) or oil (Andreas Malm), or in the economics of plantations as an original environment for the development of urban capitalism (Jason Moore), it is clear that the analysis of global warming and the ecological crisis it engenders is intimately linked to that of urbanisation as a global phenomenon (both planetary and totalising). Giving central importance to the notion of site, we intend to explore the impact and form of this global process of urbanisation on specific territories and situations, which, because they constitute so many points of junction in this system, are as many entry points into its understanding as they are points from which we can consider transforming it.

Having looked successively at deserts and mountains, we now turn our attention to oceans. The planet's dominant environment, the oceans remain paradigmatically less well known than most other geophysical environments on the planet. While they concentrate the largest share of the world's circulation flows, it seems that oceans, considered generically, continue to represent the great alternative of the planet's habitability: at once a resource and a horizon, a projection surface for tourism and a vector for some of the most threatening natural disasters, the ocean is both the medium and the great alternative of the phenomenon of planetary urbanisation.

Among the various oceans and land seas, the Adriatic seems to us to be at the crossroads of a number of contemporary issues: between the old industrial ports of the Italian coast and the dynamic ports of the Balkan coast, a new competition is emerging at the gateway to Europe.

HOURLY VOLUME

120 h

ECTS

16

In the Balkans, the still heavy imprint of the collapse of the Eastern bloc and Yugoslavia, and the entry of many of the countries that emerged from it into the European Union, has triggered a tourism development phenomenon entangled in complicated geopolitical relations.

And while the Adriatic remains perhaps the least exposed part of the Mediterranean, it is facing a rise in water levels that is more significant than elsewhere, placing new constraints on the willingness to create natural parks and preserve the heritage that has only recently emerged..

It is on these questions that we will engage the students who decide to join us. Without asking them to become historians, sociologists, anthropologists or philosophers, it is through exposure to these disciplines that we will encourage them to revisit and rethink the classic exercise of surveying, problematising it in the light of the 'Learning From' and 'Forensic' approaches, so as to draw many lessons from the exploration of the chosen sites for new forms of architecture and new project logics.,

TARGET SKILLS

- ▶ Historical and dynamic understanding of the global urbanisation phenomenon and its links with global warming
- ▶ Ability to choose a particular «site» for study within the suggested area
- ▶ Ability to examine, question and describe the chosen site
- ▶ Ability to consider major issues in the links between global urbanisation and global warming in light of the described study site
- ▶ Ability to specify the outlines of a reflection specific to mountain urbanisation in the context of global warming
- ▶ Ability to address these issues through both writing and plan drawing
- ▶ Precise writing and argumentation
- ▶ Accuracy and creativity in drawing
- ▶ Ability to work in a group and to consider a joint exhibition and presentation of the work produced during the semester

MCC

Final assessment based on 3 grades. A continuous assessment grade (20%): progress of work on the drawings; final versions of texts; punctuality, commitment and participation throughout the semester. An intermediate jury grade (20%): presentation of work on return from the study trip. A final jury grade (60%): final presentation of the work. The grade will be awarded by external members of the jury..

MCC

The work of «The Never-ending City « is being frequently published.

P45

Project

Tokyo-Greater Paris : elementary particles

TRIENNAL TOPIC

Environments, rural areas and metropolises

The contemporary Japanese city is an example that can help us to better question the European city, and offers numerous signs of what our cities of the future might look like: extreme natural phenomena, flat economic growth, an accelerated ageing of the population, desertification of rural areas while central urban areas become more attractive. P45 TOKYO TOGETHER is an opportunity to take part in a workshop with Japanese architecture students to develop a mixed-use project in a residential area of Tokyo. It is also an opportunity to immerse oneself in the research being carried out by a number of Japanese architects into new ways of living in the city in response to the changing patterns of life in major metropolises. The theme of the inhabited also requires a familiarity with the habits and customs of the art of living and customs of the Japanese art of living, which stem from a thousand-year-old tradition based on subtle notions of thresholds, flexibility of spaces and intimacy, which make this community life possible. In the end, the aim is to strengthen a multidisciplinary approach to the project by bringing together the TPCA and STA disciplines in order to study as closely as possible a building culture rich in both a long tradition of wooden framing and original contemporary construction methods. This study is complemented by a seminar..

HOURLY VOLUME

120 h

TARGET SKILLS

- ▶ Developing a rigorous method for urban analysis
- ▶ Managing a project on an urban scale (city, neighbourhood) and on an architectural scale (house)

MCC

- Continuous assessment, attendance at the seminar and project studio
The work is validated after three phases of work and the production of two portfolios
- ▶ Thematic and urban analysis: 25%
 - ▶ Workshop at Waseda (if possible): 25%
 - ▶ Final report: 50%

ECTS

16

LANGUAGES
FR + EN

P45

Project

Common territories, Peru

TRIENNAL TOPIC

Building worlds of co-existences

In view of the major contemporary challenges posed by global metropolisation, this P45 focuses on environmental and social ecology in the Andes. This region, long an example of mutual assistance between communities and a reciprocal relationship with the land, is now threatened by the process of urbanisation. How can we sketch out alternatives to this dynamic, which erases these ancestral qualities?

How can we envisage co-existence, placing ecological systems at the centre of a new political and social way of life?

Relying on the theories of «common goods», the studio questions the specialisation and rationalisation of space imposed by modernity, in order to imagine a new relationship of interdependence between humans and their environment.

We will be analysing the characteristics of the Andean territory by following a transversal Inca trail from the Peruvian coast to the Amazon via Lake Titicaca, where we will be holding a workshop with our local partner universities. We'll be looking at both small rural communities to understand how they operate, and at urbanised areas around Lake Titicaca where, in the vein of acupuncture, we'll be designing architectural projects that outline spatial and social alternatives..

HOURLY VOLUME

120 h

TARGET SKILLS

- ▶ Critical thinking
- ▶ Creativity
- ▶ Project presentation

MCC

Presentation of the project, continuous assessment, oral contribution, active participation during the workshop

VALORISATION

Printed publication and on the school website

Exhibition at partner university

ECTS

16

LANGUAGES
FR + EN
+ ES

Susanne Stacher
Luciano Aletta

susanne.stacher@versailles.archi.fr

luciano.aletta@versailles.archi.fr

PARTNERS

PUPC - Universidad Catolica de Lima,
Prof. Luis Rodriguez-Riviera

P45

Project

Composing Worlds

TRIENNAL TOPIC

Building worlds of co-existences

In recent years, P45 has been looking at the legacy of Brazilian architectural modernity through a study of its capital city and the positive potential it holds in terms of project 'strategies'.

This new cycle takes a closer look at The city from the point of view of its relationship with its host environment.

Based on the concept of the ecotone, the goal is to develop project-based research into the co-existence of the city and the [Amazonian] forest, by approaching the city, like the forest, as an ecosystem.

We will therefore be looking at the areas of transition from one to the other, the singularities of each, the edging effects, the variability of systems according to their scale (infrastructures, landscapes, social practices, architecture, etc.), the presence of one in the other and the elements that constitute them..

We can already consider a series of questions that will be raised by this work. These include the relationship between land, water, climate, travel, construction and human/non-human co-existence.

HOURLY VOLUME

120 h

TARGET SKILLS

- Fine analytical skills
- Producing necessary principles for the development of project strategies

MCC

Continuous assessment
Final jury

VALORISATION

Publication

ECTS

16

LANGUAGES
FR + EN

Pierre Antoine
Elisabeth Lemercier

pierre-antoine.deshayes@versailles.archi.fr

elisabeth.lemercier@versailles.archi.fr

PARTNERS

Federal University of Rio de Janeiro

National University of Brasilia



P45

The call of the forest Between models and ecosystems, an architectural and sylvan exploration

TRIENNAL TOPIC

Building worlds of co-existences

Far from adopting a stance of making the forest a sanctuary, we are taking the side of its anthropic nature and suggesting that we question the modalities of co-existence between the wild and the cultivated, between flora, fauna and human settlements and activities, between sensitive and technical worlds. The call of the forest challenges us to design living systems and architecture in a mutually profitable relationship, by re-examining architectural theories and practices and by engaging with contemporary ecological debates. Three design tools are mobilised: literary and pictorial representations, the site-specific approach and reference in order to give shape to programmes that are at once the support of heterotopias, the expression of “genius of the place” and the ground for a critical and fruitful discussion.

The workshop is divided into 4 phases:

1. Literary and pictorial explorations
2. Analysis of remarkable buildings interacting with the forest
3. Genius Loci; Study trip
4. Synthesis. Models, drawings and writing are used in conjunction to develop an approach that will become a project.

HOURLY VOLUME

120 h

MCC

ECTS

16

Magali Paris
Jean-Patrice Calori

magali.paris@versailles.archi.fr
jean-patrice.calori@versailles.archi.fr

PARTNERS

ONF (Compiègne and Fontainebleau, Station d'écologie forestière de Fontainebleau, TU Delft, Stanford University, National Singapore University, Chulalong University, University of Arts Reykjavik, University Hvanneryi, Icelandic Forestry Association

Analysis and project sketches and models, development of a project approach
Continuous assessment (coefficient 2)
interim reports (coefficient 1x2)
final report (coefficient 2)



P45

Social Machine : Tangible interfaces and participatory design

TRIENNAL TOPIC

Building worlds of co-existences

Claire Petetin

claire.petetin@versailles.archi.fr

Social Machine looks at the transmission of architectural culture to civil society through the lens of tools and formal models that can make the link between architects as experts and the 'non-expert' general public.

This course focuses on game-based interaction as a method of participatory design, inspired by the domain of tangible interfaces. The aim is to invent new design interfaces, in the form of games or design support tools (shapes, materials, features, ergonomics, aesthetics) that give non-experts, children and adults alike, the opportunity to embrace architectural culture and take part in the design of a project in a creative, reflective, playful or speculative way. The works developed thus question the representational function of the architectural project as a process of ideation that can be shared with a neophyte audience. These games or tools, involving the manipulation of documented tangible objects (digital data, sound, images, 2D and 3D animation), will for example take the form of models, drawings and multimedia, interactive or augmented reality-based connected installations. They will be designed primarily to encourage collaboration in the design of the project, for educational purposes, in order to facilitate accessibility to the project design process by drawing on the educational and social virtues of playful interactivity..

HOURLY VOLUME

120 h

TARGET SKILLS

- ▶ Designing a functional prototype
- ▶ Presenting the different stages of the process and the functional prototype
- ▶ Developing a consistent research process in relation to the subject

MCC

The assessment of this course will be based on the students' compulsory attendance (20%), on the progress of the research (40%) and on the final report, which will be submitted in groups (2, 3 or 4 students per group).

ECTS

16

LANGUAGES
FR + EN

Masters dissertation (M1 et M2)

Research axis 2 Metropolisation and territorial developpment

**coordinated by
Maud Santini**

Living the city Here and elsewhere Yesterday and tomorrow

Seminar

Roberta Borghi
Magali Paris

roberta.borghi@versailles.archi.fr

magali.paris@versailles.archi.fr

This dissertation group intends to develop a reflection on the issue of inhabitation at the intersection of two approaches: inhabiting through an appropriation of the here, of the territories we live in, as residents, students, workers; and inhabiting through an appropriation of the elsewhere, of the territories we discover and live in, by choice, by chance or by necessity, as tourists, travellers, migrants, workers, nomads.

Open to innovative, original or radical proposals, this group is devised as an exploratory encounter between the intuitions of students and the theoretical and methodological support of teachers and outside consultants. Personal experiences, connections between the dissertation and the project (P45 and/or PFE) and experimental ways of representing the project are welcomed with both interest and benevolence.

We encourage intensive practice in the field, enriched by careful observation and investigation of what is happening in the real world and what questions the architect today. We're interested in what's new in the city, and in its history and narratives. Seeking to build the city on the basis of an understanding of our ways of living undoubtedly requires us to adopt a multidisciplinary perspective. and broadening our areas of expertise.

TARGET SKILLS

- ▶ Defining a research topic and a set of research questions
- ▶ Conducting field survey
- ▶ Writing a text and produce a body of original graphics on the research carried out.

MCC

- ▶ Active participation in sessions.
- ▶ Intermediate reports (specific elements during the semester on specific themes and M1 report, in June 2023)
- ▶ M2 written dissertation + defence (January 2024).

PREREQUISITES

- ▶ Having taken part in the introductory research modules.

VALORISATION

- ▶ Organisation and running of conferences with external speakers (M1 and M2)
- ▶ Writing a scientific article or take part in a conference (suggested at the time of the defence)

ECTS

10

HOURLY VOLUME

80 h
(M1 and M2)

LANGUAGES
FR + EN

Writing the city Here and elsewhere Yesterday and tomorrow

Sophie Brones

sophie.brones@versailles.archi.fr

The 'Écrire la ville' (Writing the City) seminar is part of the humanities and social sciences, and seeks to examine an area of the Paris metropolitan area and the ways in which knowledge and analysis of it can be conveyed through the written word. It is based on common methodological and epistemological foundations, alternating between collective stages (sharing theories and methodologies) in M1 and individual follow-up (M2).

This theme focuses on the traces, imprints, resurgences and tangible or intangible presence of the past in the metropolitan context. Through a field study of a situation defined on the scale of their choice (places, objects, domestic or public spaces), students will attempt to describe these traces and analyse the complexity of the relationships cultivated towards them by the city's inhabitants, commuters or 'professionals'.

The aim is to examine the socially constructed, processual dimension of heritage, which should not be seen as a given or an immutable regime of exception. More generally, it will also look at the way in which political, economic and symbolic issues influence the management of and/or relationship with traces of the past. Finally, this seminar will also be an opportunity to work on the notions of collective memory, heritage, monuments and places of remembrance.

HOURLY VOLUME

80 h
(M1 and M2)

TARGET SKILLS

- ▶ Conducting research based on field surveys
- ▶ Using a variety of sources, both written and oral, empirical as well as theoretical, in order to analyse the contemporary metropolis in its historical dimensions and current dynamics
- ▶ Developing a critical view of architectural and urban spaces

MCC

Production of two research dissertations (M1 and M2) and public defence in M2

VALORISATION

Dissertations with a grade above 15 are archived at the ENSA Versailles documentation centre.

ECTS

10

LANGUAGES
FR + EN

Political philosophy of nature

Seminar

Jeremy Lecomte

jeremy.lecomte@versailles.archi.fr

The aim of this seminar is to stimulate, guide and supervise the work of students concerned with considering architecture as a vehicle for the material problematisation of the ecological crisis in which we live.

While this ecological crisis is not open to debate, the question of how to analyse it and how to respond to it is far from being as consensual. What kind of anthropos are we really talking about when we speak of the Anthropocene? What model of society are we talking about when we speak of collapse? How far back do we trace the causes of the crisis? Each of these origins involves not only writing a new narrative, but also projecting a different horizon. In each case, the crisis and the emergency we are talking about are not the same. In each case, the immediate solutions and possible alternatives we think about are not the same.

In this seminar, we will first try to understand the material and anthropic sources of this crisis, understanding it above all as a crisis in the ideation of nature on which the economic ideals of capitalism and the political ideals of democracy were founded.

In M1, the seminar will be organised around the daily reading and discussing of texts. The pace and materials used will be varied: discussions in small groups or plenary sessions, lectures, film screenings, research, writing exercises, progress reports, group or individual presentations, etc.

In M2, the seminar will leave room to individual follow-up of students' projects (group discussion sessions and more personalised follow-up).

HOURLY VOLUME

80 h
(M1 and M2)

TARGET SKILLS

► Ability to complete an initial research project of university quality

MCC

- M1: Evaluation of a completed research project
- M2: Defence of dissertation

VALORISATION

Publication of work upon recommendation of the jury

ECTS

10

LANGUAGES
FR + EN

Masters dissertation (M1 et M2)

**Research axis 4
Space, body and
sensibility**

**coordinated by
Annalisa Viati Navone**

Yesterday and today

Art and architecture

Seminar

André Bloc's artistic and editorial project for Creative Unity and the Integration of Plastic Arts into life will serve as the starting point for our investigation into the multiple relationships between architecture and the arts, artists and architects.

Aujourd'hui: Art et architecture (1955-1967, bi-monthly, 60 issues) is the third and last of the journals founded and edited by André Bloc. As there are few studies of the magazine's cultural contribution, the seminar will offer a detailed analysis, issue by issue, of its formal structure and content, with a particular focus on the interiors, which are supposed to be the place where the integration of artistic disciplines is most apparent.

The seminar is divided into three phases, each with a specific deadline. They lead to a gradual broadening of knowledge and a focus of the student's interest on a personal theme using the acquired common knowledge.

Phase 1 (collective) February-March
(starting in September 2021 for Erasmus students)

Each student is assigned the task of analysing one issue of the magazine and drawing up a synoptic table for inclusion in a database.

Phase 2 (individual) April-June

Each student is asked to produce a critical summary of the texts, complemented by observations on the text-image layout and a careful analysis of the photographs and shots.

Phase 3 (individual) September-January
Work on a personal research topic.

Annalisa Viati-Navone
Associated teachers :
Jules-Valentin Boucher
Eliza Culea-Hong

annalisa.viati@versailles.archi.fr

HOURLY VOLUME

80h
(M1 and M2)

TARGET SKILLS

- ▶ Analysing the form and content of a magazine
- ▶ Looking into the relationship between text and image, and the role of graphic design in page layout
- ▶ Creating synoptic tables as a method of investigation and analysis

MCC

- ▶ Phases 1 and 2: June submission evaluated by all teachers (100%)
Attendance and active participation are both factors in the final assessment
- ▶ Phase 3: Dissertation (100%)

ECTS

10

LANGUAGES
FR + EN