



Dipartimento di Architettura e Territorio – dArTe

Corso di Studio in Architettura quinquennale – Classe LM-4

Degree course	Architettura quinquennale
Course code	SAR39
Lecturer	Giuseppe Arcidiacono
Course name	Laboratorio di Progettazione Architettonica (Architectural Design) 3
Disciplinary area	B
Disciplinary field of science	Icar / 14
University credits - ECTS	12
Teaching hours	120
Course year	V
Semester	I + II

Synthetic description and specific course objectives

The laboratory of architectural design 3 enables a summary of knowledge relating to architectural design and urban design. The laboratory of architectural design 3 concerns construction and transformation of the city and landscape: it studies the aesthetic, functional, constructive, economic, aspects inherent in the architectural plan. The educational objective of the laboratory of architectural design 3 is the integration of knowledges concerning architecture, city and territory. The laboratory experiments a use of architecture to solve in an innovative way the needs of contemporary society.

Course entry requirements

To support the examination of Lab. architectural design 3 it is necessary to have supported the examination of Lab. architectural design 2

Course programme

The laboratory of architectural design 3 (5th year) studies and performs the design of parts of the city. The city -as construction through the time- constitutes the field of our investigation and design. So, the lessons will develop around theoretical contents useful to clarify the processes of urban project: looking critically space concepts in relation to cultural changes expressed in time by the society.

The laboratory of architectural design 3 recognises the city as the place where you compare ancient and modern architectures. Every new architectural plan has to be really feasible and must propose an alternative reality built: it must propose, in short, a different order, that is born from the critical conscience of history. An architectural plan must operate able choices to transform positively the relationships between the architectures and the places, between the city parts and the territory.

The laboratory of architectural design 3 investigates the Ancient-Contemporary dialogue in architecture. The area is the town of Vibo Valentia and the surrounding archaeological sites. The architectural plan must be a chance of recovery of the historical centre of the city and to reshape the contemporary expansion of the built, by means of architectural solutions that are able to reconcile the reasons for preservation of cultural landscape with those of urban development. The architectural plan must be an appropriate implement for the conservation of archaeological sites and of the historic city center of Vibo Valentia: that avoids a mummification process and that avoids a process, equally dangerous, of "uprooting". The plan, "listening to the places" (Portoghesi), must give an appropriate contribution of architectural solutions.

Expected results

We must understand the principles and problems of architectural design coordinating aesthetic aspects, functional aspects, constructive exigencies, economic aspects of architectural plan; with critical attention to cultural changes in society. We must be able to present our design choices correctly and efficiently, demonstrating the theoretical system, the scientific process, and the feasibility of construction of architectural plan

Course structure and teaching

Lectures (*hours/year in lecture-hall*): 40

Practical class (*hours/year in lecture-hall*): 80

Student's independent work

home studio 60 hours/year

studio and research in libraries and archives 60 hours/year

investigations on the spot, participation in conferences and seminars 60 hours/year

Testing and exams

In the laboratory it is permitted the formation of working groups of 2 students max.

The studio in lecture-hall is divided into three stages.

Stage one (October-December): lectures, practical class for defining the principles and general aspects of architectural plan 1: 500.

Mid-term test. Before Christmas-time will be delivered these designs (folded copies - eliocopie): urban plan and architectural plan (planivolumetrico) - plan 0.00 - 2 cross-sections - 1 longitudinal section - elevations of buildings - maquette in white thin cardboard- 1: 500

The registration to the laboratory is done by delivery of plans required in mid-term test, before Christmas-time.

Stage two (January-April): design of the complete architectural plan. Plans required in this stage consist of plants, sections and elevations of the buildings, 1: 200.

Stage three (May-June)- construction details; perspectives; maquette; 1: 200/1:50.

Registration is valid if the student provides its frequency to the laboratory (70%) and has carried out the works required in stages I and II. In this way the student can obtain a certificate of attendance, which allows to carry out the examination. The exam is individual: ex-tempore of evaluation of practical learning; presentation and explanation of architectural plans; lesson topics questions.

Suggested reading materials

Bibliography:

Aldo Rossi, *L'architettura della città*, Padova, Marsilio, 1966

Giuseppe Arcidiacono - Massimo Lo Curzio (a cura di), *Il progetto della città*, Messina, Edas, 1995

Giuseppe Arcidiacono - Massimo Lo Curzio (a cura di), *Centralità e progetto*, Reggio C., Falzea, 2000

Laura Thermes - Marco Mannino - Laura Marino (a cura di), *Il progetto dell'esistente. Ripensare Vibo Valentia*, Reggio C., Iiriti, 2006

Daniela De Mattia, *Architettura antica e Progetto*, Roma, Gangemi, 2012

Other reading materials will be presented every time by the teacher, in relation to the topics of the lessons. For standards and every technical problem you should consult the Manual of the Architect (*Manuale dell'Architetto*-CNR 1953). Cartography and other educational materials will be deposited at the Media Center (Centro Multimediale) of the University.



Dipartimento di Architettura e Territorio – dArTe

Corso di Studio in Architettura quinquennale – Classe LM-4

Degree course	Architettura Quinquennale LM 4
Course code	SAR 39
Lecturer	Antonino Marino
Course name	Laboratorio di progettazione architettonica 3
Disciplinary area	Progettazione architettonica
Disciplinary field of science	ICAR 14
University credits - ECTS	12
Teaching hours	120
Course year	5°
Semester	1-2

Synthetic description and specific course objectives

Course entry requirements

- Have passed all the subjects design of previous years
- Knowledge of the tools of architectural design at the urban scale and detail
- Knowledge of the distribution-typological and fundamentals of drawing

Course programme

The Course aims to provide the student with a complete experience of planning design. The student will be able to identify rules and carry out choices of planning design through different steps: defining main theme, studying area, figurative settlement of the architectural space. The project will focus on the identity of a place with remarkable preexisting characteristics in Reggio Calabria and Messina. The laboratory method and the design activities will be supported by theoretical lessons.

Expected results

The student at the end of the workshop must have acquired:

- a method, understood as a structured sequence of steps which it could develop an architecture project
- control of architectural space and its representation
- logical-geometrical principles of architectural composition in the relationship between type, shape, structure and distribution-the ability to critically interpret works of architecture in the light of the above principles
- the ability to relate the architectural structure to the surrounding urban context understanding and representing the value of the place
- the knowledge of the fundamental problems of building (by technology, facilities, structures)
- the ability to represent the design idea through the design of architecture according to different graphic techniques

Course structure and teaching

Lectures 30 hours/year in lecture theatre

Practical class 30 hours/year in lecture theatre

Practical / Workshops *60 hours/year in lecture theatre*

Student's independent work

Bibliographical research carried out in bibliotecaStudio direct testiConoscenza direct the places and architecture

Testing and exams

The two exercises will be carried out in the classroom on the topics of the lecture, and on checks the progress of the collective progetto.Le drills will be evaluated and will affect the final evaluation

Suggested reading materials

- - Rossi P. O., "La costruzione del progetto architettonico", Editore: Laterza, Anno edizione: 1996, ISBN: 8842048399
- Frampton K. "Tettonica ed Architettura" Editore Skira. Anno edizione 1999. ISBN: 8881181703
- Marino A. "Un Museo di Carlo Scarpa per Messina" Editore Officina. Anno edizione 2003 ISBN: 8887570590
- Marino A. "Progetti in Fiera" Editore Iiriti Officina. Anno di edizione 2010 ISBN:9788864940250.



Dipartimento di Architettura e Territorio – dArTe

Corso di Studio in Architettura quinquennale – Classe LM-4

Degree course	Master Degree in Architecture – Five Years – Single-cycle
Course code	SAR39
Lecturer	Prof. Arch. Gianfranco Neri – Full Professor
Course name	Architectural Design Workshop - 3
Disciplinary area	Architectural and Urban Design
Disciplinary field of science	ICAR 14
University credits - ECTS	12
Teaching hours	120 hours
Course year	V°
Semester	Annual

Synthetic description and specific course objectives

Teaching activities within the laboratory help to enhance the relationship between the theoretical and the critical content of the project, as well as its development.

The teaching organisation tends to establish a sort of learning research which focus its aim in the enhancing of its collective connotation; ideally the laboratory is established as a place for an open debate, where the critical approach of individuals, as well as group of students, towards the project will be challenging.

The individual and collective reviews will offer sharing opportunities, on both theoretical and practical issues, during which the active participation of each student will be required.

Course entry requirements

At the time of enrolment, the student must have passed the Architectural Composition 1 and 2 examinations as well as Architectural Design Workshops 1 and 2 examinations.

Course programme

In Italy, despite a growing number of families is directly affected by the problem of housing, an issue so urgent which can be called a real emergency, the percentage regarding social housing is one of the lowest compared to European countries. Facing the housing issue means to involve various aspects – not only architectural but social, political, economics – which contribute in a very significant way to the overall development of cities and to the growth of the entire country. Several studies have determined that the lack of available housing decreases the birth of new families, affects in a very obvious way the paralyzing of the working markets, especially in the case of travelling from residence place, and contributes in the demographic decline of our country. The uneasiness in which we pour, has also an impact on the urban space and its quality.

In the academic year 2013- 2014, the workshop aims to think about the HOUSE, and therefore on the CITY, compared to a national state of the art that is very mixed and rather fragmented. An interest, which leads to a series of reflections, which tend to investigate the various dwelling ways in the contemporary city.

The course intends to provide methodological tools, as well as educational informations, required to prepare, at the different scales, the development of regeneration projects and urban regeneration projects, mostly in the marginal areas of the cities, through processing and retrofitting routines.

There will be proposed many representative case studies about the contemporary living, from which the design operations for the recovery of the existing built heritage, through the use of renewable and sustainable energy, can be

outlined. At the moment, the existing building raises the need for an urgent maintenance. This happens in a period of a very worrying shortage of resources, which are required for this task.

The students, within the Workshop, will develop their own ideas of functional upgrading regarding the '60s / '70s public residential buildings to the current standard of housing, through the demolition, addition, reuse, etc.

Concerning this, the requirement to recognize diversity of places, to enhance the culture and specific social identities, arises very big responsibilities and issues.

The cities crave to be smarter, healthier; they want to reverse the damage that past policies have inflicted on nature, towards which humanity holds enormous ecological debt which need to be restored as soon as possible.

Expected results

The main purpose of the workshop is to provide to the students all the required knowledge to set a critically architectural design at the urban scale.

The work in the workshop is based on knowledge, interpretation and verification of themes, methods and practices governing the construction of urban and architectural space, within the context of current national and international research.

The workshop has a theoretical and practical purpose and it is aimed to provide to students a conscious control about the design and the construction process of an architectural shape, as a summary of aesthetic, technological, economic, structural choices. This implies a necessary logical and rational supervision of the processes involved in determining its development; such control will be essential, not only to promote the achievement of a specific and personal idea of architecture for the students, but should also avoid that the necessary - and expressively less controllable - linguistic implications of the project are oriented towards ruinous subjectivist tendencies, without any kind of verification, in a meaningless way.

It will help to the definition of the project, that should be consider as a part of the project itself:

The definition of the access routes to the area - roads with particular functional, visual and perspective implications; transparencies defined by the entrances, any spatial potential relating to the remaining areas, etc.. -;

The location and the functional, formal and dimensional specification, of both building masses and of the system of voids;

Know how to use the theoretical notions into the design project;

Determine the structural elements which distinguish the urban project;

Recognise the collective nature of the buildings in relation to the public space;

Analyse and evaluate with critical attention the different typological solutions in the various given examples - for instance, in relation with the landscape or in relation to the social condition of the inhabitants -;

Know how to revise the housing typology, according to the contemporary living needs as well as to the performance requirements of buildings;

Know how to supply the proposed architectural and urban redevelopment with the proper use of renewable energy sources, with a careful sensitivity towards the self-sustainability of the building itself.

Course structure and teaching

Lectures (*hours/year in lecture theatre*): 40 hours

Practical class (*hours/year in lecture theatre*): 20 hours

Practical / Workshops (*hours/year in lecture theatre*): 60 hours

Student's independent work

Autonomous activities of the student, which will engage them for 90 hours, are composed as follows:

- 60 hours of independent study to consolidate the theoretical knowledge relating to the first two stages of the course;
- 35 hours of work geared to independently conclude the drawings produced during laboratory activities.

Testing and exams

The Workshop is divided into lectures, seminars and proper laboratory work. During the year the course will make use

of external contributions of artists, engineers, bio-architects, historians and art critics.

The activities in the initial phase, will be aimed at defining the general theoretical aspects related to urban project, making use, on special occasions, of critical examination of some works or projects that will exemplify more clearly the relationship between buildings and urban void. In the mean time, it will offer case studies of places representing the contemporary living, and from these, the design operations applicable to the recovery, through the use of renewable and sustainable energy, of the existing building heritage, will be outlined.

At the same time, seminars and reviewing of the works proceed.

The graphic design of the project will be divided into 3 phases and materials delivered from time to time will be judged and stored as credits earned by the student for the overall judgment of the year.

Step 1: delivery of drawings related to a series of exercises in composition consisting of 1 table A1 (84,1 x59, 4 cm - vertical) and a notebook containing the preliminary studies;

Step 2: delivery of the general plan (identification of the main characters based on the analysis and the construction of the open space, on the elements that define it, and its relation with the building or buildings); the required documents to deliver are: n.1 A1 Table and a physical study model, scale 1:1000/1:500.

Step 3: It will be completed with the final architectural design of the building or buildings and their relationship with the context, the documents will consist of 3 tables A1 size, with plants and floor plans, elevations, sections at the appropriate scale, perspective and axonometric views of the whole or parts of it.

For the final examination, the student must produce the following documents:

A description of the project in A4 format (max. 6000 characters, with drawings and images) in which he highlights the main reasons that motivated his architectural choices;

N.5 A1 tables: the first table must contain at least one planivolumetric scheme and a general perspective of the intervention, the other should include general plans, floor plans, elevations, sections, perspectives, axonometric and everything else the student deems appropriate for a clear communication of his project idea;

A physical model in an appropriate scale of the final design solution.

Suggested reading materials

References:

- Franco Purini, *La città uguale. Scritti scelti sulla città e il progetto urbano 1966/2004*, a cura di Gianfranco Neri e Margherita Petranzan, Il Poligrafo, Padova 2005;
- Manfredo Tafuri, *Storia dell'architettura italiana*, Einaudi, Torino 1986;
- Manfredo Tafuri, *Progetto e utopia*, Laterza, Bari 2007;
- Gianfranco Neri, Paolo Zoffoli, *L'architettura dell'Immateriale*, Edizioni Clear, Roma 1992;
- Gianfranco Neri, Ottavio Amaro, a cura di, *Forme dell'energia*, Kaleidon, Reggio Calabria 2010.

Reference sites:

- www.europaconcorsi.com
- www.archiportale.com
- www.professionearchitetto.it