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Architectural **European Medium-sized City** Arrangement



Manual of best practices for a blended flexible training activity in architecture for higher education institutions











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Management

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This volume returns the results of the Intellectual Output 03 of the research project "ArchéA. Architectural European Medium-sized City Arrangement", with the aim of analyzing and restating the state of the art achieved in the field of flexible mixed training in architecture, strongly encouraged by the emergency period of the Covid-19 pandemic. The result is a collection of good practices carried out internally and externally to the ArchéA partner network, in the context of higher education institutions, made possible by new virtual tools capable of mediating teaching and mixed and flexible learning around the disciplines related to the project.

ArchéA. Architectural European Medium-sized City Arrangement

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Architectural European Medium-sized City Arrangement



Manual of best practices for a blended flexible training activity in architecture for higher education institutions

edited by Enrico Prandi and Paolo Strina



State of Art: the experiences of ArchéA's Network

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Lamberto Amistadi, Enrico Prandi The ArchéA online Course on the themes of Urban Design. A teaching/learning educational path

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Within the Archea research, an e-learning course student to evaluate his understanding of the topics was planned and implemented on the specific and monitor his progress. topics of investigation, or the Urban Design of the In the panorama of e-learning at university level, European medium-sized city.

(classroom). The term means both an electronic expectations and backgrounds. course and lessons delivered via videoconference, The term MOOC is often used as a synonym for characteristics of e-learning are: a) the distance of but it is good to keep in mind the differences. the users (in an environment that can also be hybrid The University of Colorado has defined the traditional classroom lessons); b) electronic support; courses². (Table 01 below) c) dissemination on the net¹.

We are not interested in delving into the educational models of online teaching here as much as defining the reasons for the choices we made for the creation of the Archea online course.

A fundamental difference to be taken into consideration when talking about e-learning is that relating to the availability of courses: closed courses are defined as those defined by a training institution for groups of users regularly enrolled and distributed through platforms. Generally, these types of courses (which can also be hybrid) are led by teachers and / or tutors who define the times and relationships (between students and students and teachers). On the other hand, open courses are defined as those provided by a training institution to non-registered users (but registered on the platform and authenticated) who follow independently when attending the course (which is available 24/7). In this case the training is authenticated through selfcorrecting exercises or quizzes, which allow the

a widely used tool is the MOOC, Massive Open In general, the term e-learning (in Italian Online Course, an "open and mass online course" apprendimento a distanza) means the use of (according to the definition of IATE 'Interactive multimedia technologies and the Internet to support Terminology for Europe'), which has characteristics. the learning of users who cannot always be physically They allow remote training of a large number present in the place where the teacher is located of users, with different geographical origins,

or a mixed set of tools. In general, the common online course or even more generically as e-learning

or blended, or with a combination of e-learning and following differences between Mooc and Online

ARCHitectural European medium-sized city Arrangement	AIMA MATTE ITUTIORIUM - UNIVERTA DI ROUCONA DIGIT@L LEARNING	
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🕈 Badges	ARCHitectural European medium-sized city Arrangement	
I Grades	DASHBDARD / COURSES / ARCHITECTURAL EUROPEAN MEDIUM-SIZED CITY ARRANGEMENT	
D Sections		
General		DESCRIPTION
Introduction		The ARCHEA project relays a constructive cooperation
The Italian Tradition of Urban Studies		and integration between fn Universities, research institutes and organizations
The Phenomenological Approach to the City of Spaces		providing strong expertise the field of urban studies, urban space quality evaluat and Distance Learning.
Functional Analysis as an Image of Urban Complexity	Introduction View Section Modules	Project Website
Urban Regeneration Towards a	Modules Lesons 5	
Polycentric City	Progress 0 / 5	
Natural Space and Urban Design		PANOPTO
B Dashboard		Non sei autorizzato a visualizzare questa cartella
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My courses	View Section Modules Modules: Lessen: 5 Book: 1 Assignment: 1 Glossrp: 1	
	Progress: 0 / 13	
	The Phenomenological Approach to the City of Spaces	
	View Section Modules	
	Modules: Lesons 5 Quizzes 3 Assignment: 1 Glossay: 1 Progress: 0 / 10	
	Functional Analysis as an Image of Urban Complexity	
	View Section Modules	
	Modules: Lesons: 7 Quizzes: 7 Assignment: 1 Glossay: 1 Progress: 0 / 15	
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	Urban Regeneration Towards a Polycentric City	
	View Section Modules	
	Web Section Modules Modules: Lesions 5 Quizars 5 Assignment: 1 Glossary: 1	
	Progress: 0 / 12	
	Natural Space and Urban Design	
	View Section Modules	
	Modules: Lessons: 5 Quizes: 5 Assignment: 1 Glossary: 1	
	Progress 0 / 12	
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MOOC: Content	Traditional Online Course: Content	
 Content is accessible 24/7 Media is open source Learners are encouraged to share and contribute materials Modules are 5 to 10 minutes Content is edited when needed 	 Often material is only available one week at a time Media is restricted by the university Students search within an institution's library database Modules are 45 to 60 Content is edited by semester 	
MOOC: Delivery	Traditional Online Courses: Delivery	
 Lectures are pre-recorded All content is available from the start Self-paced / customized learning path Feedback is dependent on classmates Course is open-ended with no due dates 	 Often include live lectures Content is often locked until it is completed by the student Group learns at the same pace / linear learning path Feedback is dependent on teacher Course is closed ended with due dates 	

Table 01 Differences between Mooc and Online courses by University of Colorado

MOOCs were born with the first MIT course Technology (MIT) which has 5 million students "Connectivism and Content Knowledge" in 2008. the phenomenon grew exponentially between 2011 and 2012. (Menichetti, 2014)3.

Moocs fully embody the "open" culture, in the obtain greater effectiveness of face-to-face teaching different meanings that the term acquires depending on the context (free, accessible to all, manageable MOOCs can be important resources for individual independently, flexible, innovative in use, reusable, study, in the public domain, etc.).

of MOOCs does not exhaust its relevance in the and use methods can be very diversified.

face teaching.

engage in the promotion of MOOCs was in fact to identify new online and face-to-face educational web developers, data analysts, mobile developers mix formulas that could cut costs, and therefore etc. reduce taxes for students, which have now reached There are two major categories: unsustainable levels in the USA (Denhar, 2013), cMOOC, with a constructivist-connectivist slant to revolutionize education.

In February 2014 Anant Agarwal, CEO of EdX, teacher who becomes a facilitator;

and provides 500 courses, during a TED Talk highlighted how the MOOCs make it possible to innovate traditional teaching methods and to interventions. In the case of Inverted Learning,

This direction has not been taken only by EdX: According to Hill (2012)⁴, all MOOCs rank among even its direct competitor. Coursera, a platform the "fully online" courses, but the innovative scope of Stanford University which has over 16 million students and provides 1,490 courses, shows that context of online learning processes. The design it cultivates with particular attention the Inverted Learning approach, as described within the From the earliest stages, MOOCs were designed to "Flipped classroom field guide" (Adam et al., 2013) be anything but independent or opposed to face-to- which reports concrete cases and indications for the development of courses using this method.

One of the main objectives that moved large In addition to edX and Coursera, the third giant is universities such as Stanford, Harvard or MIT to Udacity, a Stanford University commercial start-up that offers paid online higher education courses for

without worsening the face-to-face teaching (http://www.connectivistmoocs.org/what-is-aquality, indeed improving it. Technology is helping connectivist-mooc), in which the participants have an active and predominant role over that of the

the non-profit and open-source platform founded xMOOC, of a donor-instructivist style, more by Harvard and the Massachusetts Institute of widespread and implemented by large institutions (mainly the major US universities such as Stanford, independent but high-profile online course of MIT, Harvard).

In recent years, Europe has also increased the number of MOOCs provided and today covers about The aim of the ARCHEA course is to innovate 25% of the total courses available (SURF; http:// openeducationeuropa.eu/en/european scoreboard moocs). A pan-European initiative, OpenupEd, has been active since mid-2013, in which several universities have been consortiumed with the The course consists of 5 chapters (each of which support of the European Union.

the training (which in absolute value however is a general part on the project and 5 short videos by equivalent to tens of thousands of students within the scientific managers of the various universities a year). The very high dropout rate of MOOCs, (The 5 approaches); 3 Lectio Magistralis close the compared to classroom training, is reported by introduction: Urban Space and Theatrical Scene critics as an indication of low appreciation of this by Gino Malacarne, , Landscape at the Heart of training method. In reality, the behavior of the Urban Projects by Jacqueline Osty, and City, Life, students is in line with the participation in other Architecture by Klaus Theo Brenner. activities on the web: about 35% enroll only because The five chapters follow: The Italian Tradition of they are attracted by free admission but then do not Urban Studies (UniBo): The Phenomenological even connect to a lesson; others are operators in the Approach to the City of Spaces (RWTH); Functional sector who observe to acquire useful elements for Analysis as an Image of Urban Complexity planning but not to grapple with the objectives of (POLSL); Urban Regeneration Towards a the specific course; still others follow all the lessons Polycentric City (UniPR); Natural Space and Urban but do not turn in their homework because they are Design (ENSAN). not interested in certification.

Among the most disparate platforms available⁵, the training according to the usual format of university choice through which to carry out the course fell on MOODLE, Modular Object-Oriented Dynamic Each Chapter is an autonomous entity, it is composed Learning Environment [in Italian an environment of a set of Lessons (videos + written parts), an for modular, dynamic, object-oriented learning] as Assignment, a Book (optional), a Glossary and it turned out to be in many countries Europeans provides for the verification of the contents through including Italy the most widespread and used in the guizzes (3 guestions for each lesson), multiple university environment⁶. Other tools widely used choice. internationally are Coursera, EdX and EMMA.

Moodle is a learning management system (LMS) of the quizzes (whose correction is automatic) plus inspired by pedagogical constructionism, a theory according to which all learning would be facilitated Each Chapter, if learning is sufficient, gives rise to by the production of tangible objects. Beyond this, 1 ECTS for a total of 5 ECTS if the entire course is Moodle, in addition to being Open Source, is a very passed. flexible and adaptable environment to the different Being an international course, the contents are needs of university education.

Almost the only experience in Italy on Urban research groups (Italian, German, Polish and Design according to the list of MOOCs⁷ in the French) and in English (the official language of the themes of Architecture, the ARCHEA course is part of a training offer limited to very few experiences It is a course that includes about 800 minutes of mainly conducted at the Federico II University of Naples as part of the "Federica WebLearning"8 . Other universities have also developed similar Since the course is compatible with the rules

and BOOK¹⁰ of the University of Bologna.

content on the issues addressed by the strategic partnership.

teaching in the field of architecture with an independent but high-profile online course of content on the issues addressed by the strategic partnership.

was managed by the single university partner) plus Compared to those enrolled, only 5% -6% complete a general introduction. The introduction consists of

Each Chapter provides a part of training and selfteaching.

The assessment of learning is given by the outcome the assessment of the Assignment by the teacher.

available both in the language of origin of the project) through deactivable subtitles.

video lessons, many of which are integrated by parts directly written on the platform.

platforms such as POK⁹ of the Politecnico di Milano on university teaching, architecture students (of different levels and degrees, three-year master's The aim of the ARCHEA course is to innovate or doctorate) will be able to attend (by registering) teaching in the field of architecture with an and download the certificate of the ECTS obtained which can subsequently be validated by the office's The Functional Analysis as an Image of Urban supervisors of the various universities.

The course could also become part of the different curricula of studies through the mechanism of the courses chosen by the different universities. The future goal is to make the course available also as a professional refresher for the various figures working in the field of urban design (Architects. Planners, Planners, etc.).

The structure of the course is reported in its breakdown by parts.

The Italian Tradition of Urban Studies course (by University of Bologna) consists of the following lessons:

Lesson 1. The Beginnings: Rogers, Muratori, Samonà, Ouaroni, by Lamberto Amistadi

Lesson 2. Venice as a Paradigm. The Value of the Void on the Urban Design, by Giovanni Marras Lesson 3. The Architecture of the City, by Gino Malacarne (with a synthesis of the Aldo Rossi's book)

Lesson 4. Projects for the City: Gianugo Polesello, Luciano Semerani and Gigetta Tamaro, by Ildebrando Clemente

Lesson 5. The Urban Design, by Raffaella Neri Total video time (90 min.)

The Phenomenological Approach to the City of Spaces course (by RWTH Aachen) consists of the following lessons:

Lesson I. Theoretical Foundations I.I. Concept of Space. Landmarks in a Theory of Architectural Space, by Uwe Schröder

Mapping, Landmarks in a History of Spatial Mapping, by Felix Mayer

Method. The Approach of the Red-Blue Plan, by Quintelli Timo Steinmann

Instrument. The Legend of the Red-Blue Plan, by Maretto Timo Steinmann

III.I. Application Examples. The Red-Blue Plan in System (TDSC), by Enrico Prandi Design and Research, by Ilaria Maria Zedda

II. Experiment. Using the Red-Blue Plan in Design Strina Process

Total video time (120 min.)

Complexity course (by Politechnica Slawska) consists of the following lessons:

Lesson 1. Public Space - Definition, Types, Importance, by Michał Stangel (Definitions and approach to public space of various disciplines; Types of public space; Importance for city structure and implications for urban design).

Lesson 2. Mapping of Space - Overview, by Tomasz Bradecki (History of mapping of spaces; Methods, themes, tools, examples; Experiments).

Lesson 3. Behavioral Maps of Urban Spaces, by Katarzvna Uima-Wasowicz & Krzysztof Kafka (Mapping of behavioral patterns (daily patterns): Mental maps)

Lesson 4. Urban Open Space Prototyping, by Michał Stangel (Urban space prototyping; Tactical urbanism; Placemaking and evaluation of public space)

Lesson 5. Large Scale Mapping, by Krzysztof Kafka (Overview of the method; Examples; Modes of use)

Lesson 6. Blue-Green Infrastructure, by Agata Twardoch (Role of blue and green infrastructure in the city; Relations between b/g infrastructure and the cities environment; Good examples)

Lesson 7. Contemporary Threats to Public Open Space, by Katarzyna Ujma-Wasowicz (Privatization of open spaces; Availability constraints; Accessibility mapping as a part of protection against threats).

Total video time (155 min.)

The Urban Regeneration Towards a Polycentric Lesson I. Theoretical Foundations. I.II. Spatial City course (by University of Parma) consists of the following lessons:

Lesson 1. The Long-Term Method of The Urban Lesson II. The Red-Blue Plan as a Mapping. II.I. Project in Italy and The Parma School, by Carlo

Lesson 2. The European Medium-Sized City: Lesson II. The Red-Blue Plan as a Mapping. II.II. The Characteristics of the Urban Form, by Marco

Lesson 3. Urban Regeneration Technique Through Lesson III. The Red-Blue Plan as a Design Tool. the Structured Densification of The Centrality

Lesson 4. Application Examples of The TDSC Lesson III. The Red-Blue Plan as a Design Tool. III. Methodology: The Project for Bologna, by Paolo

> Lesson 5. Application Examples of The TDSC Methodology: The Project for Aachen, by Giuseppe Verterame

Total video time (130 min.)

The Natural Space and Urban Design course (by

ENSA, Rouen) consists of the following lessons: Lesson 1. The Natural Space as a Structuring Material for the Urban Design. Part 1: The Search for an Urban System, by Valter Balducci Lesson 2. The Natural Space as a Structuring

Material for the Urban Design. Part 2: Nature as Substrate and Structure, by Valter Balducci Lesson 3. The Natural Space as a Structuring

Material for the Urban Design. Part 3: Natural Space

and Urban Transformation, by Valter Balducci Lesson 4. Toward a More "Natural" City? by Jean-Marc Bichat (conference held at the ENSA de Normandie the March 7th, 2019). Lesson 5. Uses of Mapping Territories and Urban Space, by Anne Portnoï Total video time (145 min.)

Notes

1 R. Maragliano, Pedagogie dell'e-learning, Bari, Laterza, 2004.

² https://www.cu.edu/moocs-vs-online-courses

³ Menichetti L., 2014, Open education e modelli di apprendimento flessibile, Form@re, Open Journal per la formazione in rete, [S.I.], v. 14, n. 1, p. 5-21, mar. 2014. ISSN 1825-7321 Disponibile all'indirizzo: http://www.fupress.net/index.php/formare/article/view/14750/13795>.

⁴ Hill P. (2012), "Online Educational Delivery Models: A Descriptive View", Educause Review 85, November-December, 85-97.

5 http://www.apprendimentocapovolto.it/le-piattaforme-mooc.html

⁶ See also the document of the CRUI Foundation, MOOCs - MASSIVE OPEN ON-LINE COURSES: Prospettive e Opportunità per l'Università italiana. Available at https://moodle2.units.it/pluginfile.php/75836/mod_resource/content/1/MOOC_ CRUI_VersioneFinale.pdf

7 https://www.mooc-list.com/

8 https://www.federica.eu/

9 https://www.pok.polimi.it/

10 https://book.unibo.it/



Lamberto Amistadi - Associate Professor in architectural and urban Design at the DA of the University of Bologna. He is deputy director of the online magazine "FAMagazine", devoted to research and projects concerning architecture and the city, and co-director of the series "TECA. Teorie della Composizione architectural (Clean). Along with Ildebrando Clemente, he founded and directs the series "SOUNDINGS: Theory and Architectural Openness" (Aión), which has included monographic volumes on John Hejduk and Aldo Rossi. He is author of numerous publications, including the books Paesaggio come rappresentazione (Clean, 2008), La costruzione della città (Il Poligrafo, 2012), Architettura e Città (with Enrico Prandi, FAEdizioni 2016).

In 2018 he won a position as Coordinator and Chief Science Officer in the European-level call of Erasmus+ Strategic Partnerships for Higher Education, entitled "ArchéA Architectural European Medium-Sized City Arrangement".



Enrico Prandi - (scientific coordinator of the Parma local unit), Associate Professor in Architectural and Urban Design, is departmental referent for Erasmus+ activities. Since 2010 he has been Erasmus + delegate for Architecture courses and in 2012 and 2013 he participated in the CCA project (LLP-Intensive Programme).

He is director of the Festival of Architecture, that organizes events (exhibitions, conferences, seminars, etc.) for the dissemination of architectural and urban culture. He is Director of the Open Access Scientific e-Journal FAMagazine. Research and Projects on Architecture and City (ISSN: 2039-0491, Scopus and WoS indexed, www.famagazine.it), Placement and Internationalisation experts, Urban Design Expert. His pubblications include: L'architettura della città lineare (FrancoAngeli, Milan 2016); "The Architectural Project in European Schools" (in European City Architecture, FAEdizioni, Parma 2012); Mantova. Saggio sull'architettura (FAEdizioni, Parma 2005).