

 UNIVERSITÀ DEGLI STUDI FIRENZE SCUOLA DI ARCHITETTURA	CORSO DI LAUREA MAGISTRALE ARCHITETTURA CURRRICULUM ARCHITECTURAL DESIGN]	
	<b>iCAD</b>	<b>International Course on Architectural Design</b>  MASTER PROGRAM

<b>COURSE:</b> ARCHITECTURE STRUCTURAL DESIGN LAB	<b>CLASS:</b> SYSTEMS AND COMPONENTS DESIGN
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# DIGITAL TECHNOLOGY FOR ARCHITECTURAL FABRICATION

# FORM MANUFACTURING

prof. Giuseppe Ridolfi, PhD

# CLASS SCHEDULE

# FALL 2014

**iCAD** International Course on Architectural Design – Master Program 2014-15

## Digital technologies for architectural fabrication. Form manufacturing

### CLASS SCHEDULE

The program of the course is articulated as follows:

#### **25. september** > Class presentation

##### > Home Assignments:

Students are asked to read:

[2013 | G. Ridolfi, Digital Technology for Architectural Fabrication](#)

From the reading students have to be prepared for the next class discussion scheduled on Friday the 26th

#### **26. september** > compulsory attendance

- Class discussion and Lecture on «Digital Technology for Architectural Fabrication»
- Taccuino Guide
- Students' Registration, Class Scheduling presentation

##### > Home Assignments:

Students are asked:

- to start the research for Credit #04 – Paper «Digital Technology for Architectural Fabrication» from the following readings:

[2003 | Greg Lynn , Architectural Curvilinearity.2010 | Ankit Surti, Digital Architecture Essay.](#)

[Undated | Branko Kolarevic, Digital Morphogenesis and Computational Architectures](#)

- to develop research «Empirical form investigation» as the beginning of Credit#01

For references and explanatory examples look at the «Assignment & Credits Info Nodes» and «Form Manufacturing Resources» in the Course Map.

#### **3.october** > compulsory attendance

- Studio activities on «Empirical form investigation»
- Lecture on «Structural Morphogenesis and Digital Fabrication Technique»
- Students Registration

#### **10.october**

- Studio activities on «Empirical form investigation»
- Desk critiques and individual review

#### **17.october**

- Studio activities on «Empirical form investigation»
- Desk critiques and individual review
- Paper Topic Submission for Approval in order to develop it [Credit#04]

#### **22.october** > compulsory (Deadline 24:00 h)

- Taccuino vol I submission uploading a .pdf file on the [Dropbox Students' Space](#)

#### **24. october** > compulsory attendance

- Poster presentation and discussion «On form investigation» - Vol. 1 | Diagrams and Realizations [Credit#01]

#### **31 october** > compulsory Structural attendance

- Lecture on «Behaviors, Performances and Diagrams in architectural constructions. A parametric approach for Building Compositing and Construction Management»
- Last call Paper Submission for Approval in order to develop it [Credit#04]

#### **07 november**

- Studio activities and Desk critiques

#### **12.november** > compulsory (Deadline 24:00 h)

- Schematic Proposal submission uploading a .pdf file on the [Dropbox Students' Space](#)

#### **14. november** > compulsory attendance

- Poster presentation to the Teacher Board «Schematic Proposal» [Credit#02]

#### **21. november** > compulsory attendance

- Lecture on «Composite materials & Assembling»

**28. november**

- Studio activities and Desk critiques

**05 december**

- Studio activities and Desk critiques

**10. december > compulsory** (Deadline 24:00 h)

- Taccuino vol I submission uploading a .pdf file on the [Dropbox Students' Space](#)

**12. december > compulsory attendance**

- Poster presentation and discussion «On form investigation» - Vol. 2 | Assembly & Joining Technology [**Credit#03**]

**17. december > compulsory** (Deadline 24:00 h)

- Paper «Digital Technology & Joining Technology» submission uploading a .pdf file at the Dropbox Students' Space

**9 january > compulsory attendance**

- Guest's Lecture on «Production data preparation» + visit to the Architectural Models Laboratory (LMA)
- Studio activities and Desk critiques

**14 january > compulsory** (Deadline 24:00 h)

- Taccuino vol I submission uploading a .pdf file on the [Dropbox Students' Space](#)

**16 january > compulsory attendance**

- Poster presentation and discussion «Final Proposal for Approval» [**Credit#05**]

**23 january**

- On demand review on «Production and assembly»

**28 january > compulsory for first call final exam** (Deadline 24:00 h)

- Final Exam material submission uploading on the [Dropbox Students' Space](#)

**30. january > Final exam – First Call**

- «Final Project Proposal» Presentation Board [**credit#06**] (reserved for students who intend to take the exam in the First Call)
- On demand review on «Production and assembly»

**06 february**

- On demand review on «Production and assembly»

**23. january > Final exam – Last Call**

(9:00-11:00) «Final Project Proposal» Presentation Board [**credit#06**] (reserved for students who intend to take the exam in the First Call)

(11:00-18:00) «Final Project Proposal» Interdisciplinary slide presentation [**credit#05**]

**17 january > compulsory for second call final exam** (Deadline 24:00 h)

- Final Exam material submission uploading on the [Dropbox Students' Space](#)

**19. january > Final exam – Last Call**

- «Final Project Proposal» Presentation [**credit#06**]

**20. january > Final exam – Last Call**

- Grade Registration