

APPLICATION FORM

WORKSHOP IN MAPPING, PARAMETRIC DESIGN & DIGITAL FABRICATION.

DigitalMed Workshop:

Mapping, parametric design and digital fabrication for architectural design. July 2012, Salerno - Italy.

Goals and Objectives:

The **digitalMed workshop** is structured as a design laboratory. Participants will learn the challenging process of producing ideas, projects and research analysis that are to be developed through specific software and concepts that emerge through the use of **mapping, parametric design and digital fabrication**.

We aim to make clear the theoretical and technical knowledge in the approach to parametric and generative design and digital fabrication. (From collection and data management, to the manner in which these inform the geometries, to the fabrication of prototypes.)

Participants will also have the opportunity to practice the new knowledge gained in the design laboratory through project work.

Project Theme:

"Urban Field": Identify, study and analyse the system of public spaces in the urban area of the city of Salerno. **Connection, mutation, generation and evolution** are the themes to be followed in project work.

Workshop structure:

11-Day digitalMed workshop is structured into 3 intensive weekends:

July 13-14-15, **mapping**: Collection, manipulation, visualization, data management (3 days)

July 19-20-21-22, **parametric design**: Rhino and Grasshopper (4 days)

July 26-27-28-29, **digital fabrication**: The use of the CNC. KNK cutter (4 days)

In the final part of the second phase, it will give boot to the laboratory design, which will continue for the entire third phase, using the techniques of digital fabrication for the production of prototypes. You can also choose to attend individual modules. In this case, we ask participants to write a dissertation ad hoc.

NOTE: If there will be the presence of foreign participants, the workshop will be held in English.

Brief Description of Topics:

- **Mapping**. Our reality, in all its forms, has studied through concepts of the **theory of Complex Systems**. The techniques that will be used to study events and places of reality, will work for the management, manipulation and visualization of data and information. These will form the basis for project management and driven geometry, conducted during the second phase of the workshop.

- **Parametric Design**. Introduction to **Rhino* and Grasshopper**. Specifically, we will explain the concepts with which to work with the software of parametric design and how they function. Through

these tools, we will arrive at the definition of systems of mathematical and / or geometrical relationships that are able to generate and govern patterns, shapes and objects that will inform the final design.

- Digital Fabrication. In this phase, participants of the workshop are organized into working groups. Participants have access to materials and conceptual apparatus that will take them directly to the **fabrication of the geometries of the project**, with the use of software CAD / CAM interface and the use of machines for the digital fabrication.

Resources and Software:

The participants must have their own laptop with Rhino3D already installed.

We report the version of "evaluation" of the link Rhino3D:

<http://download.rhino3d.com/rhino/4.0/evaluation/download/>

The Grasshopper plug-in version 1.0 (0.8.0066) can be downloaded at:

<http://download.rhino3d.com/Grasshopper/1.0/wip/download/>

References:

For the mapping: Visual Complexity, Mapping Patterns of Information, Manuel Lima Princeton Architectural Press, 2011; The visual Miscella-Neum, a colorful guide to the world's most consequential Trivia, David McCandless, published by HarperCollinsPublisher 2011; Everything Explande Trough Flowcharts, Doogie HornerHarperCollinsPublisher 2010.

The documentation for Rhino and Grasshopper can be downloaded from the website:

<http://download.rhino3d.com>

Workshop Location:

Santa Sofia Complex (3rd floor), Via Trotula de' Ruggiero, Salerno, Italy.

The accommodation in hostels or in any other hotel, is fully borne by the participant at the workshop.

The organization recommends that you book your accommodation in time.

Workshop Timetable:

11-Day digitalMed workshop is structured into 3 intensive weekends:

July 13-14-15 (mapping): from 10:00 to 20:00

July 19-20-21-22 (parametric design): July 19 from 14:00 to 20:00, the other three days from 10:00 to 20:00

July 26-27-28-29 (digital fabrication): from 10:00 to 20:00

Costs:

mapping (July 13-14-15): € 200,00 + iva

parametric design (July 19 -20-21-22): € 300,00 + iva

digital fabrication (July 26-27-28-29): € 200,00 + iva

Registration deadline date: 10 July 2012

Facilities*:

-for bookings made before 18/06/2012: € 440.00 euros + iva for professionals; € 340.00 + iva for students. (the price includes entry to three modules).

- for bookings made from 19/06/2012 to 29/06/2012: € 520.00 + iva for professionals; € 410.00 + iva for students. (the price includes entry to three modules).

- for bookings made from 30/06/2012 to 10/07/2012: € 650.00 + iva for professionals; € 500.00 + iva for students. (the price includes entry to three modules).

* There aren't discounted subscriptions to individual modules.

Registration:

Registration is done by completing the form, available at www.digitalmedworkshop.com, under "Registration". In the case of students, they must also send a certified copy of payment of university fees related at the current year. Submission of material does not exceed 1Mb.

After sending of pre-registration form, participants will receive an email containing an ID number and any specifics of payment.

The Payment must be made by bank transfer (bank details will be sent into the email).

Participants have to send by mail, to info@digitalmedworkshop.com, a copy of the bank transfer. The registration will be considered complete only after receiving the bank transfer or its copy to the address above.

info:

www.digitalmedworkshop.com
www.architetturaecosostenibile.it
<http://www.aramplus.com>
<http://www.picernocerasolab.com>
www.inarchcampania.it/
<http://www.architettisalerno.it/>
<http://www.comune.salerno.it/>
www.nomadarea.com

Conditions :

The Organization reserves the right to make changes to this event and its program for justified reasons of organization and of not constituting the workshop if the number of participants is less than 11.

Info :

To request additional information and clarifications please contact the secretary of the organization, by e-mail: info@digitalmedworkshop.com.