

# FA+UD ADVANCED STUDIES PROGRAM IN COMPUTATION APPLIED TO ARCHITECTURE, URBAN PLANNING, AND DESIGN

SAIBA MAIS EM  
WWW.FA.UTL.PT

The expression of the architecture of a particular time always reflects the context of the time, including the available technology. Today, computational resources are already instruments used in most design environments. However, to a certain extent, they are used merely as facilitators of processes acquired and tested over time. The advanced program in design and computation is intended to go one step forward by promoting the use of computation in architecture as a means for expanding intuition and awareness, thereby enhancing the capacity of the Architect to relate to and act on the surrounding world in a more intelligent and holistic way.

## COORDINATOR

José Pinto Duarte

## SCIENTIFIC COMMITTEE

José P. Duarte, FA - ULisboa  
Luís Mateus, FA - ULisboa  
José Nuno Beirão,  
FA - ULisboa  
Victor Ferreira, FA - ULisboa  
Joaquim Jorge, IST - ULisboa  
António Leitão,  
IST - ULisboa  
Paulo Bártolo, IPL  
Helena Bártolo, IPL  
George Stiny, MIT  
Terry Knight, MIT  
Gabriela Celani, Unicamp

## CURRICULAR UNITS UNIDADES AND INSTRUCTORS

Shape Grammars • Luís Romão / José Pinto Duarte, FA  
3D Scanning • Luís Mateus / Victor Ferreira, FA  
Space Syntax • Francisco Serdoura / Victor Ferreira, FA  
Introduction to GIS • Cristina Henriques, FA  
BIM • Francisco Agostinho, FA  
Computer Programming • António Leitão, IST  
Close Range 3D Scanning • Paulo Bártolo / Helena Bártolo, IPL  
Digital Design and Fabrication • José Nuno Beirão / Pedro Januário, FA  
Fundamentals of Mathematics for Computation  
• Jorge Ribeiro / Susanha Rosado Ganhão, FA  
Analysis and Simulation Tools • Luís Romão, FA  
Animation • Carlos Figueiredo, FA  
Parametric Urban Design  
• José Nuno Beirão / José Pinto Duarte, FA  
Virtual Reality • Joaquim Jorge, IST  
Advanced Digital Fabrication • Paulo Bártolo / Helena Bártolo, IPL

*All the curricular units are optional but students need to get a minimum of 40 ECTS.  
Classes will be taught in English and Portuguese and on Friday  
and Saturday morning.*

## ACADEMIC CALENDAR

In accordance with the school's academic calendar.

### 1ST SEMESTER

Beginning of classes: September 16  
End of classes: December 21  
1st Exam period: January 9-22

### 2ND SEMESTER

Beginning of classes: February 3  
End of classes: May 17  
1st Exam period: May 22-June 4  
2nd Exam period for both semesters: June 19-30

## TUITION

Between 2000 (40 ECTS) e 3000 euro  
(60 ECTS), depending on the ECTS.

*Credits obtained in this program may count towards the credits  
required in the Doctoral Program, in case the student is accepted  
in the latter within 5 years after completing the former: approval  
by the Doctoral Program Scientific Committee.*

Application Deadline  
September 6

Response to Applications Deadline  
September 10

Registration 1st semester: September 12-15  
2nd semester: January 27-31