UNIVERSITÀ DI PAVIA

## Anno Accademico 2021/2022

# LAB (GRAPHIC COMPUTER SCIENCE)

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| **Enrollment year** | 2020/2021 |
| **Academic year** | 2021/2022 |
| **Regulations** | DM270 |
| **Academic discipline** | ING-INF/05 (DATA PROCESSING SYSTEMS) |
| **Department** | DEPARTMENT OF CIVIL ENGINEERING AND ARCHITECTURE |
| **Course** | |
| **Curriculum** | PERCORSO COMUNE |
| **Year of study** | 2° |
| **Period** | (07/03/2022 - 17/06/2022) |
| **ECTS** | 3 |
| **Lesson hours** | 56 lesson hours |
| **Language** | Italian |
| **Activity type** | WRITTEN AND ORAL TEST |
| **Teacher** | PARRINELLO SANDRO (titolare) - 3 ECTS<br>DORIA ELISABETTA - 0 ECTS<br>GALASSO FRANCESCA - 0 ECTS |
| **Prerequisites** | Knowledge derived from the Design Course of Architecture; Basic computer skills are also required. |
| **Learning outcomes** | Managing of the survey project |
| **Course contents** | At the end of the second year the student must know:<br><br>The historical and scientific bases of the discipline<br>The principles, methods and tools of direct and indirect survey;<br>Instrumental survey methods and issues related to survey and to the representation of complex issues;<br>The theoretical foundations of aerial and terrestrial photogrammetry applied to architecture and environment;<br>The principles and procedures applicable to the photogrammetric |

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| | restitution aimed at the measurement and understanding of architecture and the environment;<br>The principles and procedures for the execution of measurements with 3D laser scanner.<br>The procedures for the processing of data 3DScanner aimed at the return of two-dimensional and three-dimensional drawing. |
| **Teaching methods** | Lectures (hours/year in lecture theatre): 80<br>Practical class (hours/year in lecture theatre): 40<br>Practicals / Workshops (hours/year in lecture theatre): 60 |
| **Reccomended or required readings** | Specific dossiers for each subject, manuals including examples and tutorials.<br>S. Bertocci, M. Bini, Manuale di Rilevamento Architettonico ed Urbano. Città Studi, Novara, 2012. |
| **Assessment methods** | Attendance at lecturs and exercises is strongly recommended for their practical setting. The assessment of the learning will be done by evaluating the exercises conducted during the course which will cover both the topographic, laser scanner and photogrammetric notions. |
| **Further information** | Attendance at lecturs and exercises is strongly recommended for their practical setting. The assessment of the learning will be done by evaluating the exercises conducted during the course which will cover both the topographic, laser scanner and photogrammetric notions. |
| **Sustainable development goals - Agenda 2030** | $lbl_legenda_sviluppo_sostenibile |