ANNEX C - REQUIREMENTS TO OBTAIN THE DOUBLE DEGREE

To get the double degree, students must follow one of the following study plan templates. Each study plan must be approved by the two Universities.

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| **FIRST YEAR AT UNIPI** | **57** |
| Advanced Algorithms | 9 |
| Advanced Programming | 9 |
| Principles of programming languages | 9 |
| Numerical Methods and Optimization | 12 |
| Advanced Databases | 9 |
| Computing Models | 9 |
| **SECOND YEAR AT UMA** | **63** |
| Research, Innovation and Technology Management | 4,5 |
| Integrated Management for Software Development | 6 |
| Deployment of Software Development Methodology | 6 |
| Systems Architecture | 6 |
| *Optative courses* | 9 |
| Information System and Technology Strategy Management | 7,5 |
| Master's thesis (1) | 24 |

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| **FIRST YEAR AT UMA** | **60** |
| Research, Innovation and Technology Management | 4,5 |
| Integrated Management for Software Development | 6 |
| Deployment of Software Development Methodology | 6 |
| Qualitative and Quantitative Software Quality | 4,5 |
| Systems Architecture | 6 |
| Logic based Systems and Services | 3 |
| Information System and Technology Strategy Management | 7,5 |
| Security in Information Systems | 4,5 |
| High Performance and Embedded Architectures | 6 |
| Uncertainty Handling in Intelligent Systems | 6 |
| Graphics and Multimedia Systems | 6 |
| **SECOND YEAR AT UPI** | **60** |
| 18 ECTS from the following list:* Advanced algorithms
* Advanced programming
* Principles of programming languages
* Advanced databases
* Computing models

and 6 ECTS from the set of subsidiary coursesor12 ECTS of Numerical Methods and Optimizationand 12 ECTS from the set of subsidiary courses | 24 |
| “Free choice” courses (2) | 12 |
| Master's thesis (1) | 24 |

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 (1) Each thesis will be co-tutored by one supervisor from the University of Pisa and one supervisor from the University of Malaga.

(2) The University of Pisa can recognize these 12 credits to students who acquired a 4-year BS Degree in Computer Science, in Computer Engineering, in Software Engineering, or similar.