UNIVERSITY OF NAPLES
PARTHENOPE

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international.uniparthenope.it

# Master's Degree in Applied Computer Science

**COURSE CURRICULUM: MACHINE LEARNING AND BIG DATA**

## Study Plan

| Year | Semester | Unit of Study | Credits |
|---|---|---|---|
| 1st | 1st | Scientific Computing (part I - Data science and simulation)* | 6 |
| 1st | 1st | Physics and Quantum Computing | 6 |
| 1st | 1st | Machine Learning (part I - Statistical machine learning and neural networks)* | 6 |
| 1st | 1st | Natural Language Processing | 6 |
| 1st | 2nd | Scientific Computing (part II - Geometrical mappings and transforms)* | 6 |
| 1st | 2nd | Machine Learning (part II - Deep learning)* | 6 |
| 1st | 2nd | Intelligent Signal Processing | 6 |
| 1st | 2nd | Data Science Technology | 6 |
| 2nd | 1st | Internet of Things and IoT Lab (part I - Sensor networks )* | 6 |
| 2nd | 1st | Multimodal Machine Learning | 6 |
| 2nd | 1st | High Performance Computing | 6 |
| 2nd | 1st | Elective | 6 |
| 2nd | 2nd | Internet of Things and IoT Lab (part II - Architecture and Systems)* | 6 |
| 2nd | 2nd | Cloud Computing | 6 |
| 2nd | 2nd | Elective | 6 |

* joint exams

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# Master's Degree in Applied Computer Science

**COURSE CURRICULUM: INNOVATION**

## Study Plan

| Year | Semester | Unit of Study | Credits |
|---|---|---|---|
| 1st | 1st | Scientific Computing (part I - Data science and simulation)* | 6 |
| 1st | 1st | Physics and Quantum Computing | 6 |
| 1st | 1st | Machine Learning (part I - Statistical machine learning and neural networks)* | 6 |
| 1st | 1st | Natural Language Processing | 6 |
| 1st | 2nd | Scientific Computing (part II - Geometrical mappings and transforms)* | 6 |
| 1st | 2nd | Machine Learning (part II - Deep learning)* | 6 |
| 1st | 2nd | Intelligent Signal Processing | 6 |
| 1st | 2nd | Data Science Technology | 6 |
| 2nd | 1st | Tech Skill Lab Big Data | 6 |
| 2nd | 1st | Tech Skill Lab Cloud Computing | 6 |
| 2nd | 1st | Tech Skill Computing & Software Design | 6 |
| 2nd | 1st | Elective | 6 |
| 2nd | 2nd | Tech Skill Lab IoT Lab | 6 |
| 2nd | 2nd | Tech Skill Lab Machine Learning | 6 |
| 2nd | 2nd | Elective | 6 |

* joint exams