



# Master's Degree in Applied Computer Science

COURSE CURRICULUM: MACHINE LEARNING AND BIG DATA

**Academic Year 2021/2022**  
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	Computer Graphics: Animation and Simulation	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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## COURSE CURRICULUM: INNOVATION

### Academic Year 2021/2022 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	Computer Graphics: Animation and Simulation	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