

MASTER IN STATISTICS AND OPERATIONS RESEARCH MESIO UPC-UB

Suggested subjects from other UPC or UB master programs to MESIO UPC-UB students. They can choose up to 3 of these subjects. Bear in mind that enrollment is conditioned to the availability of free places (so students might not be admitted to courses with high demand).

MIRI, Master in Innovation and Research in Informatics (FIB, UPC), specialization in Data Science: Each subject has 6 ECTS

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| a. | Kernel based Machine Learning and Multivariate Modeling (KMLMM-MIRI) | Fall semester |
| | Recommended only if a previous course on Machine Learning or Statistical Learning has been done. | |
| b. | Advanced Statistical Modeling (ASM-MIRI) | Fall semester |
| | Not recommended if MLLG and Stat. Learning have been done | |
| c. | Complex and Social Networks (CSN-MIRI) | Fall semester |
| d. | Optimization Techniques for Data Mining (OTDM-MIRI) | Fall semester |
| | Not recommended if Opt. in Data Science has been done | |
| e. | Open Data (OD-MIRI) | Spring semester |
| f. | Machine Learning (ML-MIRI) | Spring semester |

MASTER FOUNDATIONS OF DATA SCIENCE (FMI, UB)

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|----|----------------------------------|-----------------|
| a. | Machine learning (6 ECTS) | Fall semester |
| b. | Deep learning (3 ECTS) | Spring semester |
| c. | Big data (3 ECTS) | Spring semester |
| d. | Recommenders (3 ECTS) | Spring semester |

[See here the detailed description of each subject.](#)

SCTL, Master in Supply Chain and Transport Logistics (UPC)

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| a. | Introducció a la Cadena de Subministrament | Fall semester |
| b. | Modelització de Sistemes de Transport i Logístics | Fall semester |
| c. | Anàlisi de Dades de Transport i Logística | Fall semester |
| d. | Models d'Optimització de Xarxes de Transport | Fall semester |
| e. | Models Avançats de Demanda | Fall semester |
| f. | Demanda de Sistemes de Transport | Spring semester |
| g. | Models de Simulació de Trànsit | Spring semester |
| h. | Transport de Mercaderies | Spring semester |

Master in Automatic Control and Robotics (ETSEIB – UPC)

[Scientific Python for Engineers](#) (3 ECTS)

Master in Biomedical Engineering (Faculty of Physics-UB and ETSEIB-UPC)

[Biomedical Informatics](#) (2,5 ECTS)