MESIO UPC-UB. Subject suggestions

<table>
<tr><td>Q1</td><td>Modatory subjects for all the students</td><td colspan="4">Statistical software: R i SAS
Models and methods for Oper. Research</td></tr>
<tr><td></td><td>Mondatory subjects for intinerari</td><td colspan="4"><u>Itinerari 1</u> | <u>Itinerari 2</u>
Advanced Statistical Mod.| Foundations of Statistical Inference</td></tr>
<tr><td></td><td>Inttensifications</td><td>Bioestadística i Bioinformàtica (BIO)</td><td>Estadística Empresarial i Social (EMP)</td><td>Investigació Operativa (IO)</td><td>Data Science (DS)</td></tr>
<tr><td></td><td></td><td>Liftime Data analysis
Fundations. of Bioinformatics
Spatial Epidemiology
Stat. Prog. and Databases
Mathematics (It. 2)
Lin. and Gen. Lin. models</td><td>Risc Quantification
Stat. for Busines Management
Econometric Analysis
Stat. Prog. and Databasess
Mathematics (It. 2)
Lin. and Gen. Lin. models</td><td>Continuous Optimization
Simulation
Optimization in data science
Optim. in Energy Systems and markets
Lin. and Gen. Lin. models
Stat. Prog. and Databases</td><td>Lin. and Gen. Lin. models
Optimization n Data Science
Genetic Epidemiology
Stat. Prog. and Databases
Mathematics (It. 2)
Fundations of bioinformatics
Simulation
Stat. for Busines Management risk Quantification</td></tr>
<tr><td>Q2</td><td>Mondatory subjects for itinerary</td><td colspan="4"><u>Itinerari 1</u> | <u>Itinerari 2</u>
Probability and Stochastic processes | Multivariate Dada analysis</td></tr>
<tr><td></td><td>Intensificacions:</td><td>BIO</td><td>EM ues</td><td>IO</td><td>DS</td></tr>
<tr><td></td><td></td><td>Stat. Methods in clinical Research
Clinical Trials
Time Series
Advanced Survival Analysis
Stat. Methods in Epidemiology
Longitudinal Data analysis
Omic Data analysis
Bayesian analysis
Multivariate Data analysis (It.1)</td><td>Quantitative Finance
time Series
Quantitative marketing Tecn.
Simul. for Business Decision Making
Bayesian analysis
Multivariate Data analysis (It.1)
Longitudinal Data analysis
Actuarial Statistics</td><td>Large scale optimization
Network discrete models#
Simul. for Business Decision Making
Stochastic Programming
Multivariate Data analysis (It.1)
time Series
Statistical learning
Bayesian analysis</td><td>Statistical learning
Machine Learning
Time Series
Multivariate Data analysis (It.1)
Quantitative marketing Tecn.
Bayesian analysis
Longitudinal data analysis
Omic data analysis
Simul. for Business Decision Making
Stat. Learning with Deep Artificial Neural Networks
Aprenentatge Automàtic (MAMME)
Subjects form the MIRI-DS master</td></tr>
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Biannual