MESIO UPC-UB. Suggested elective subjects according to intensifications.

Q1	Compulsory	Software for statistics and optimization			
		Operations Reseach Models and Methods			
	Compulsory by pathway	**Pathway 1 | Pathway 2**			
		Advanced statistical inference | Foundations of statistical inference			
	Intensifications:	**Biostatistics and Bioinformatics (BIO)**	**Business and Social Statistics (EMP)**	**Operations Research (IO)**	**Data Science (DS)**
	Electives by intensification	Lifetime data analysis	Risk quantification	Continuous optimisation	Linear and generalized linear models
		Clinical trials	Statistics for business management	Simulation	Optimization in data science @#
		Fundations of bioinformatics	Econometric analysis	Optimization in data science @#	Spatial epidemiology @
		Spatial epidemiology @		Optim. in energy systems & markets #	*Subjects from MIRI-DS*
	Other related electives	Mathematics (for pathway 2)	Mathematics (for pathway 2)	Linear and generalized linear models	Mathematics (for pathway 2)
		Linear and generalized linear models	Linear and generalized linear models		Fundations of bioinformatics
					Simulation
					Statistics for business management
Q2	Compulsory by pathway	**Pathway 1 | Pathway 2**			
		Probability and stochastic processes | Multivariate data analysis			
	Intensifications:	**BIO**	**EMP**	**IO**	**DS**
	Electives by intensification	Advanced exp. design in clinical research	Actuarial statistics	Large scale optimization	Statistical programming and data bases
		Advanced topics in survival analysis	Financial statistics	Discrete network models#	Statistical learning
		Epidemiology	Time series @	Simul. for business decision making @	Time series @
		Longitudinal data analysis	Quantitative marketing techniques @	Stochastic optimization	Multivariate data analysis (for pathway 1)
		Omics data analysis	Social indicators		Quantitative marketing techniques @
			Simul. for business decision making @		*Subjects from MIRI-DS*
	Other related electives	Bayesian analysis	Bayesian analysis	Statistical programming and data bases	Bayesian analysis
		Multivariate data analysis (for pathway 1)	Multivariate data analysis (for pathway 1)	Multivariate data analysis (for pathway 1)	Longitudinal data analysis
		Time series @	Longitudinal data analysis	Time series @	Omics data analysis
				Statistical learning	Simul. for business decision making @
				Bayesian analysis	

Només s'ofereixen 2 d'aquestes 3 cada any

@ Assignatures en més d'una intensificació