

Studies Plan

Mineur : Systems engineering 2024-25

Minor : Systems engineering

Courses			Exam Session	Exam	Credit
Language	Code	Section	Teacher		
Advanced control systems					
E	ME-524	GM	Karimi	Sum	Written 3
Advanced energetics					
E	ME-451	GM	Maréchal	Win	Oral 5
Applied probability & stochastic processes					
E	MGT-484	MTE	Cristi Espinosa	Win	Written 4
Causal inference					
E	MGT-416	MTE	Kiyavash	Sum	During the 4 semester
Concurrent engineering of space missions					
E	ENG-411	EL	Kneib	Sum	Oral 2
Dynamical systems in biology					
E	BIO-341	SV	Naef Shillcock	Win	Written 4
Dynamical system theory for engineers					
E	COM-502	SC	Thiran	Sum	Written 6
Genomics and bioinformatics					
E	BIO-463	SV	Bitbol Luisier Rougemont	Sum	During the 4 semester
Information: strategy & economics					
E	MGT-431	MTE	Weber	Win	During the 4 semester
Introduction to optimization and operations research					
E	MATH-265	GC	Bierlaire	Win	Written 4
Lifecycle performance of product systems					
E	ME-516	GM	Friot	Sum	During the 3 semester
Machine learning I					
E	MICRO-455	MT	Billard	Win	Written 4
Machine learning II					
E	MICRO-570	MT	Billard	Sum	Oral 4
Modelling and optimization of energy systems					
E	ME-454	GM	Maréchal	Win	Oral 4
Model predictive control					
E	ME-425	GM	Jones	Win	Written 4
Networks out of control					
E	COM-512	SC		Sum	Written 6
Nonlinear Control Systems					
F	ME-523	GM	Müllhaupt	Win	Oral 3
Optimal decision making					
E	MGT-483	MTE	Kuhn	Sum	Written 4
Optional project in Systems engineering					
E	ENG-422	MTE	Profs divers	Sum Win	During the 8 semester
Principles and applications of systems biology					
E	ChE-411	CGC	Hatzimanikatis	Win	During the 3 semester
Spacecraft design and system engineering					
E	EE-584	EL	David Udriot	Win	During the 5 semester
Supply chain management					
E	MGT-526	MTE	Markoff Timonina-Farkas	Sum	During the 4 semester
System identification					
E	ME-421	GM	Karimi	Sum	Written 3
Systems engineering					
E	MICRO-405	MT		Win	During the 3 semester