



Curriculum for the Double Degree MsDCE + MsDSCTMM (specialty in Transport & Mobility)

Track 1 (175 ECTS)

FIRST YEAR					
Fall semester			Spring semester		
250401	Mechanics of continua	9	250405	Structural engineering	6
250402	Numerical modelling	9	250406	Computational engineering	6
250403	Structural analysis	7.5	250407	Geomechanical & geotechnical engineering	6
250404	Hydraulic infrastructure	4.5	250408	Water engineering	6
			250409	Planning & management of transportation	6
30			30		
60					

SECOND YEAR					
Fall semester			Spring semester		
240ST011	Introduction to supply chain	5	240ST021	Economy & legislation in transport & logistics	5
240ST012	Modelling of transport systems & logistics	5	250ST022	Demand of transportation systems	5
250ST013	Transport systems operations & logistics	5	250452	High-speed rail line management	5
240ST014	Data analysis of transport & logistics	5	250451	Road network planning & operation	5
240ST015	Quantitative methods in supply chain	5	250ST2131	Optimization models of transport networks	5
250ST016	Transport economics	5	250ST2121	Public transport*	5
30			25-30		
55-60					

THIRD YEAR					
Fall semester			Spring semester		
250450	Urban mobility*	5	250499 240ST041	Master's thesis MsDCE + MsDSCTMM	40
250453	Urban planning & urban service infrastructure	5			
250ST2122	Transport of goods	5			
250ST2132	Traffic	5			
55-60					

* From the courses "250ST2121 - Public transport" y "250450 - Urban mobility" students must only choose one.

Track 2 (175 ECTS)

FIRST YEAR					
Fall semester			Spring semester		
240ST011	Introduction to supply chain	5	240ST021	Economy & legislation in transport & logistics	5
240ST012	Modelling of transport systems & logistics	5	250ST022	Demand of transportation systems	5
250ST013	Transport systems operations & logistics	5	250452	High-speed rail line management	5
240ST014	Data analysis of transport & logistics	5	250451	Road network planning & operation	5
240ST015	Quantitative methods in supply chain	5	250ST2131	Optimization models of transport networks	5
250ST016	Transport economics	5	250ST2121	Public transport*	5
30			25-30		
55-60					

SECOND YEAR					
Fall semester			Spring semester		
250401	Mechanics of continua	9	250405	Structural engineering	6
250402	Numerical modelling	9	250406	Computational engineering	6
250403	Structural analysis	7.5	250407	Geomechanical & geotechnical engineering	6
250404	Hydraulic infrastructure	4.5	250408	Water engineering	6
			250409	Planning & management of transportation	6
30			30		
60					

THIRD YEAR					
Fall semester			Spring semester		
250450	Urban mobility*	5	250499 240ST041	Master's thesis MsDCE + MsDSCTMM	40
250453	Urban planning & urban service infrastructure	5			
250ST2122	Transport of goods	5			
250ST2132	Traffic	5			
55-60					

* From the courses "250ST2121 - Public transport" y "250450 - Urban mobility" students must only choose one.

Legend – Specialty in Transport & Mobility (Tracks 1 and 2)

Mandatory courses MsDSCTMM (40 ECTS)
Mandatory courses MsDCE (60 ECTS)
Elective courses MsDCE for the specialty in "Transport & Urbanism" (15-20 ECTS)
Elective courses MsDSCTMM mandatory for the specialty in "Transport & Mobility" (15-20 ECTS)
Master's thesis (40 ECTS)

Curriculum for the Double Degree MsDCE + MsDSCTMM (specialty in Supply Chain)

Track 3 (200 ECTS)

FIRST YEAR					
Fall semester			Spring semester		
250401	Mechanics of continua	9	250405	Structural engineering	6
250402	Numerical modelling	9	250406	Computational engineering	6
250403	Structural analysis	7.5	250407	Geomechanical & geotechnical engineering	6
250404	Hydraulic infrastructure	4.5	250408	Water engineering	6
			250409	Planning & management of transportation	6
30			30		
60					

SECOND YEAR					
Fall semester			Spring semester		
240ST011	Introduction to supply chain	5	240ST021	Economy & legislation in transport & logistics	5
240ST012	Modelling of transport systems & logistics	5	250ST022	Demand of transportation systems	5
250ST013	Transport systems operations & logistics	5	250452	High-speed rail line management	5
240ST014	Data analysis of transport & logistics	5	250451	Road network planning & operation	5
240ST015	Quantitative methods in supply chain	5	240ST1122	Process description & improvement	4
250ST016	Transport economics	5	240EO024	Operations management	6
30			30		
60					

THIRD YEAR					
Fall semester			Spring semester		
250450	Urban mobility	5		Elective courses MsDSCTMM (specialty in "Supply Chain")	10
250453	Urban planning & urban service infrastructure	5			
240EO031	Supply chain design	6	250499	Master's thesis MsDCE	25
240ST1132	Operations management II	4			
	Elective courses MsDSCTMM (specialty in "Supply Chain")	10			
30			35		
65					

FOURTH YEAR					
Fall semester			Spring semester		
240ST041	Master's thesis MsDSCTMM	15			
15			-		
15					

Track 4 (200 ECTS)

FIRST YEAR					
Fall semester			Spring semester		
240ST011	Introduction to supply chain	5	240ST021	Economy & legislation in transport & logistics	5
240ST012	Modelling of transport systems & logistics	5	250ST022	Demand of transportation systems	5
250ST013	Transport systems operations & logistics	5	250452	High-speed rail line management	5
240ST014	Data analysis of transport & logistics	5	250451	Road network planning & operation	5
240ST015	Quantitative methods in supply chain	5	240ST1122	Process description & improvement	4
250ST016	Transport economics	5	240EO024	Operations management	6
30			30		
60					

SECOND YEAR					
Fall semester			Spring semester		
250401	Mechanics of continua	9	250405	Structural engineering	6
250402	Numerical modelling	9	250406	Computational engineering	6
250403	Structural analysis	7.5	250407	Geomechanical & geotechnical engineering	6
250404	Hydraulic infrastructure	4.5	250408	Water engineering	6
			250409	Planning & management of transportation	6
30			30		
60					

THIRD YEAR					
Fall semester			Spring semester		
250450	Urban mobility	5		Elective courses MsDSCTMM (specialty in "Supply Chain")	10
250453	Urban planning & urban service infrastructure	5			
240EO031	Supply chain design	6	250499	Master's thesis MsDCE	25
240ST1132	Operations management II	4			
	Elective courses MsDSCTMM (specialty in "Supply Chain")	10			
30			35		
65					

FOURTH YEAR					
Fall semester			Spring semester		
240ST041	Master's thesis MsDSCTMM	15			
15			-		
15					

Elective courses MsDSCTMM – Specialty in Supply Chain (Tracks 3 and 4)

Código	Asignatura	ECTS
240ST1031	Sector strategies in supply chain	5
240ST1032	Information systems & TICs in supply chain	5
240EO035	Information systems	6
240EO032	Management & cost control	4.5
240ST1036	Packaging	5
240ST1025	Business administration & management	5
240ST1021	Storage & provision	5

Legend – Specialty in Supply Chain (Tracks 3 and 4)

Mandatory courses MsDSCTMM (40 ECTS)
Mandatory courses MsDCE (60 ECTS)
Elective courses MsDCE for the specialty in "Transporte y Urbanismo" (20 ECTS)
Elective courses MsDSCTMM mandatory for the specialty in " Supply Chain " (20 ECTS)
Elective courses MsDSCTMM for the specialty in "Supply Chain" (20 ECTS)
Master's thesis (40 ECTS)