

Pre-filled Study Plans

Pre-filled Study Plans are also available. These plans are automatically approved by the Educational Management Board. Three pre-filled plans are currently available:

- Smart Mobility
- Smart Planning
- Resilient Networks

Pre-filled Study Plan Smart Mobility

Course	ETCS	Scientific Field Code	Pre-requirements
First Year, first-term			
Language Skills	3		None
Positioning and location-based services	9	ICAR/06	None
Statistical Lab for Industrial data analysis	9	SECS-S/02	None
Systems and Control fundamentals	9	ING-INF/07	None
First Year, second-term			
Machine Learning and big data	9	ING-INF/05	None
Intelligent Transportation Systems	9	ICAR/05	None
Road Safety	9	ICAR/04	None
Real-time systems	9	ING-INF/05	None
Second Year, the first-term			
Testing and validation of automated road vehicles	9	ING-INF/05	None
Energy management for transportation	9	ING-IND/32	None
Second Year, second-term			
Railway and transit services	9	ICAR/05	Basic background in transportation modeling (ICAR/05)
Smart Roads and cooperative Systems	6	ICAR/05	None
Lab / Internship	9		
MSC Thesis	12		

Pre-filled Study Plan **Smart Planning**

Course	ETCS	Scientific Field Code	Pre-requirements
First Year, first-term			
Language Skills	3		None
Positioning and location-based services	9	ICAR/06	None
Digital maps and geological 3D models	9	GEO/05	None
Systems and Control fundamentals	9	ING-INF/07	None
First Year, second-term			
Machine Learning and big data	9	ING-INF/05	None
Intelligent Transportation Systems	9	ICAR/05	None
Road Safety	9	ICAR/04	None
Railway and transit services	9	ING-INF/05	None
Second Year, first-term			
Traffic control	9	ICAR/05	None
Energy management for transportation	9	ING-IND/32	None
Second Year, second-term			
Freight and logistics	9	ICAR/05	Basic background in transportation modeling (ICAR/05)
Smart Roads and cooperative Systems	6	ICAR/05	None
Lab / Internship	9		
MSC Thesis	12		

Pre-filled Study Plan **Resilient Networks**

Course	ETCS	Scientific Field Code	Pre-requirements
First Year, first-term			
Language Skills	3		None
Positioning and location-based services	9	ICAR/06	None
Digital maps and geological 3D models	9	GEO/05	None
Electric Systems in Transportation	9	ING-IND/33	None
First Year, second-term			
Machine Learning and big data	9	ING-INF/05	None
Intelligent Transportation Systems	9	ICAR/05	None
Road Safety	9	ICAR/04	None
Tunnels and underground structures	9	ICAR/07	None
Second Year, first-term			
Transport planning and appraisal	9	ING-INF/05	None
Energy management for transportation	9	ING-IND/32	None
Second Year, second-term			
Sustainable road materials	9	ICAR/04	
Resilience of transportation systems	6	ICAR/05	None
Lab / Internship	9		
MSC Thesis	12		