

## Mandatory courses

### Fall Semester (October-January)

G10 group (students from other studies)

Room B1001

	Monday	Tuesday	Wednesday	Thursday	Friday
08:00-09:00	Structural analysis		Numerical modeling	Hydraulic infrastructure	Structural analysis
09:00-10:00		Structural analysis			
10:00-11:00	Mechanics of continua	Numerical modeling	Mechanics of continua	Numerical modeling	Mechanics of continua
11:00-12:00					
12:00-13:00		Hydraulic infrastructure			

G10 group (former UPC's Civil Engineering graduates)

Room A1102

	Monday	Tuesday	Wednesday	Thursday	Friday
08:00-09:00			Geomechanical & geotechnical engineering		
09:00-10:00	Geomechanical & geotechnical engineering				
10:00-11:00			Structural engineering	Structural engineering	Planning & management of transportation
11:00-12:00	Water engineering				
12:00-13:00			Computational engineering	Computational engineering	Water engineering
13:00-14:00					

### Spring Semester (February-June)

G20 group (students from other studies)

Room A1102

	Monday	Tuesday	Wednesday	Thursday	Friday
08:00-09:00			Geomechanical & geotechnical engineering		
09:00-10:00	Geomechanical & geotechnical engineering				
10:00-11:00			Structural engineering	Structural engineering	Planning & management of transportation
11:00-12:00	Water engineering				
12:00-13:00			Computational engineering	Computational engineering	Water engineering
13:00-14:00					

## Elective courses

### Fall Semester (October-January)

Rooms A1102, A1206, A2001, A2002, A2102 & A4202

	Monday	Tuesday		Wednesday	Thursday		Friday
08:00-11:00	Urban planning & urban service infrastructure <b>A1206</b>	Analysis & design of steel structures (G10 -Spanish) <b>A1206</b>		Sustainable & development engineering A1206	Geotechnical design & construction <b>A1206</b>		Models & tools for projects & financial management <b>A2002</b>
11:00-14:00	Urban mobility <b>A2001</b>	Advanced design of concrete structures (G10-English) <b>A1206</b>	Building structures (G10 -English) <b>A2001</b>		Tunnels & rock mechanics <b>A1206</b>	Structural management <b>A4202</b>	Computacional engineering for design & operation <b>A1206</b>
15:00-18:00	Urban hydrology <b>A1206</b>	Port & offshore engineering <b>A1102</b>	Mixed & composite structures <b>A2001</b>	Water treatment <b>A1206</b>	Models & tools for projects & financial management **(sporadically) <b>A2102</b>		

### Spring Semester (February-June)

Rooms A1205 & A1206

	Monday	Tuesday	Wednesday	Thursday	Friday	
08:00-09:00	Life-cycle analysis & sustainability assessment <b>A1206</b>	Building structures (G20-English) <b>A1206</b>	Advanced design of concrete structures (G20-English) <b>A1206</b>	Interaction between groundwater & civil works <b>A1206</b>	High speed rail line management <b>A1206</b>	
09:00-10:00						
10:00-11:00						
11:00-12:00	Environmental modelling <b>A1206</b>	Bridges <b>A1206</b>		Geomechanics of breakage <b>A1206</b>	Road network planning & operation <b>A1206</b>	
12:00-14:00						
15:00-18:00	Numerical models in civil & structural engineering <b>A1206</b>	Analysis & design of steel structures (G20-Spanish) <b>A1205</b>	Machine learning & models for decision making <b>A1206</b>	Coastal engineering & management <b>A1206</b>	River dynamics <b>A1206</b>	Seismic risk assessment and reduction <b>A1205</b>