



# Climate PBL



#### Component

École Nationale Supérieure d'Électrotechnique d'Électronique

#### In brief

> Code: N8EM05E

> Open to exchange students: No

### Presentation

## Objectives

At the end of the sixteen 1h45 sessions of the Climate PBL, engineering students will be able to:

- Describe the predominant phenomena of the water cycle and atmospheric circulation
- Explain the mechanisms responsible for climate change and its impacts
- Organize a sequence of processes using conceptual diagrams
- · Integrate multiple pieces of information from scientific literature
- · Select key facts to explain complex scientific concepts
- · Generate educational resources that can be easily used by other scientists

#### Description

The Table below presents the program of the 16 sessions of the "Climate PBL". The first two sessions are grouped into a half-day for an introduction to the course, followed by training in the animation of the Climate Fresk. The last two sessions, also grouped into half a day, are devoted to "reverse lectures", during which three groups of students present a summary of the "Active Multimedia Conference" (AMC) they have constructed. Between these two half-days, the sessions combine lectures by teachers and group work workshops under the supervision of these experts.







Slots		Sequenc of		PD	OL	OP	HR	МВ	DA	ОТ	Total
		sessions							_		
TD	2	Presenta of the Climate PBL and "Climate Fresk" facilitatic training							1	1	2
СМ	3	Additional greenhous effect							1	1	2
СМ	4	Disruption of the water cycle	n				1			1	2
СМ	5	Flooding			1						1
СМ	6	Freshwat resource	l .								1
СМ	7	Cyclones				1					1
СМ	8	Carbon Cycle (three cards in the Fresk)		1						1	2
СМ	9	Aerosols		1					1		2
СМ	10	Air Tempera Rise	ture						1	1	2
СМ	11	Ice melting (three cards in the Fresk)			1				1		2







СМ	12	Rising water temperat	ure		1				1		2
СМ	13	Extreme climate events						1	1		2
СМ	14	Floods	1				1		1		3
TD	15	Defences					1			1	2
TD	16	of the "Multime Pedagog Conferen projects and mini- fresks	ical				1			1	2
		TOTAL	2	2	3	1	4	1	9	8	30