

# APP Climat



**Component**
  
 École Nationale
   
 Supérieure
   
 d'Électrotechnique
   
 d'Électronique

In brief

> **Code:** N8EM05E

## 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	Sequencing of sessions	PD	OL	OP	HR	MB	DA	OT	Total

TD	1	Presentation						1	1	2
TD	2	of the Climate PBL and "Climate Fresk" facilitation training						1	1	2
CM	3	Additional greenhouse effect						1	1	2
CM	4	Disruption of the water cycle				1			1	2
CM	5	Flooding			1					1
CM	6	Freshwater resources								1
CM	7	Cyclones				1				1
CM	8	Carbon Cycle (three cards in the Fresk)		1					1	2
CM	9	Aerosols		1				1		2
CM	10	Air Temperature Rise						1	1	2
CM	11	Ice melting (three cards in the Fresk)			1			1		2
CM	12	Rising water temperature			1			1		2

CM	13	Extreme climate events						1	7		2
CM	14	Floods	1				1		7		3
TD	15	Defences of the					1			1	2
TD	16	"Multimedia Pedagogical Conferences" projects and mini-fresks					1			1	2
		<b>TOTAL</b>	2	2	3	1	4	1	9	8	<b>30</b>