

# Teaching of Experimental Sciences and Mathematics program

## M1 - semester 1 - 30 ECTS

1. Block 1 (*Didactic Fundamentals and Mediation*): 9 ECTS
  - CSSAD (*Construction of scientific knowledge – Didactic approach*): 6 ECTS
  - MST1 (*Scientific and technical mediation 1*): 3 ECTS
2. Block 2 (*Fundamental history*): 9 ECTS
  - FHES (*Fundamentals in history and epistemology of science*): 6 ECTS
  - HES (*History of Science Education*): 3 ECTS
3. Block 3 (*Work experience*): 6 ECTS
  - TER (*Study and research work*) 1 and internship
4. Block 4 (*Publication and communication*): 6 ECTS
  - LVE: *Modern Foreign Language*: 3 ECTS
  - CDIR (*Didactic frameworks for the integration of resources*): 3 ECTS

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  - LVE: *Modern Foreign Language*: 3 ECTS
  - 1. CDIR (*Didactic framework for the integration of resources*): 3 ECTS

## M1 - semester 2 30 ECTS

1. Block 1 (*Didactic Fundamentals and Mediation*): 9 ECTS
  - o DESEM (*Didactics and Epistemology of Experimental Sciences and Mathematics*): 6 ECTS
  - o MST2 (*Scientific and Technical Mediation 2*): 3 ECTS
2. Block 2 (*Publication and communication*): 9 ECTS
  - o Research Ethics: 3 ECTS
  - o CDIR (*Didactic frameworks for the integration of resources*): 3 ECTS
  - o *Opening (courses to choose from a catalogue)*: 3 ECTS
3. Block 3 (*Work Experience*): 12 ECTS
  - o TER (*Study and Research Work*) 2: 6 ECTS
  - o Internship: 6 ECTS

## M1 - semester 2 30 ECTS

1. Block 1 (*Didactic Fundamentals and Mediation*): 9 ECTS
  - DESEM (*Didactics and Epistemology of Experimental Sciences and Mathematics*): 6 ECTS
  - MST2 (*Scientific and Technical Mediation 2*): 3 ECTS
2. Block 2 (*Dissemination and communication*): 9 ECTS
  - ER (*Research Ethics*): 3 ECTS
  - CDIR (*Didactic frameworks for the integration of resources*): 3 ECTS
  - Opening (*courses to choose from a catalogue*): 3 ECTS
3. Block 3 (*Work experience*): 12 ECTS
  - TER (*Study and Research Work*) 2: 6 ECTS
  - Internship: 6 ECTS

## **Maquette de M2**

### **M2 - Semester 3**

- Block 1 (*Fundamentals*): 12 ECTS, 2 courses including 1 of your choice
    - FDSEM (*Fundamentals in didactics of experimental sciences and mathematics*) (*compulsory*): 6 ECTS
    - FMSS (*Fundamentals in Mediation of Science and Societies*) (*option*): 6 ECTS
    - FHES (*Fundamentals in history and epistemology of science*) (*option*): 6 ECTS
  - Block 2 (*work experience*): 9 ECTS, 2 courses
    - Methodology: 6 ECTS
    - LVE (*Modern Foreign Language*): 3 ECTS
  - Block 3 (*In-depth study of didactics*): 9 ECTS, 2 courses including 1 of your choice
    - Reading seminar (*compulsory*): 3 ECTS
    - ADSE (*In-depth study of didactics of experimental sciences*) (*option*): 6 ECTS
    - ADMI (*In-depth study of didactics of mathematics and computer science*) (*option*): 6 ECTS
1. Block 1 (*Fundamentals*): 12 ECTS, 2 courses including 1 of your choice
    - FDSEM (*Fundamentals in didactics of experimental sciences and mathematics*) (*compulsory*): 6 ECTS
    - FMSS (*Fundamentals in Mediation of Science and Societies*) (*option*): 6 ECTS
    - FHES (*Fundamentals in history and epistemology of science*) (*option*): 6 ECTS
  2. Block 2 (*work experience*): 9 ECTS, 2 courses
    - Methodology: 6 ECTS
    - LVE (*Modern Foreign Language*): 3 ECTS
  3. Block 3 (*In-depth study of didactics*): 9 ECTS, 2 courses including 1 of your choice
    - Reading seminar (*compulsory*): 3 ECTS
    - ADSE (*In-depth study of didactics of experimental sciences*) (*option*): 6 ECTS
1. ADMI (*In-depth study of didactics of mathematics and computer science*) (*option*): 6 ECTS

## **M2 - Semester 4**

1. Block 1: 21 ECTS (*Research*)
  - SMR (Seminar and research *dissertation*): 21 ECTS
2. Block 2: 9 ECTS (*Project Support*)
  - *Opening (courses to choose from a catalogue)*: 3 ECTS
  - *MDS2(Research Methodology 2)*: 3 ECTS
  - *PEDVS (Project in teaching, publication and development in science)*: 3 ECTS
  - *Internship (option)*