

### Caraterização da Unidade Curricular / Characterisation of the Curricular Unit

<b>Designação da Unidade Curricular / Curricular Unit:</b>	[3181300261] Prática de Ensino Supervisionada em Matemática e Ciências Naturais no 2.º CEB II		
<b>Plano / Plan:</b>	[3181300261] Supervised Teaching Practice in Mathematics and Natural Sciences (5th and 6th grades) II		
<b>Curso / Course:</b>	2015/2016		
<b>Grau / Diploma:</b>	Ensino do 1.º Ciclo do Ensino Básico e de Matemática e Ciências Naturais no 2.º Ciclo do Ensino Básico		
<b>Departamento / Department:</b>	Mestre		
<b>Unidade Orgânica / Organic Unit:</b>	CEN - Ciências Exatas e Naturais		
<b>Área Científica / Scientific Area:</b>	Escola Superior de Educação de Viseu		
<b>Ano Curricular / Curricular Year:</b>	Prática de Ensino Supervisionada		
<b>Período / Term:</b>	2		
<b>ECTS:</b>	S2		
<b>Horas de Trabalho / Work Hours:</b>	14		
<b>Horas de Contacto/Contact Hours:</b>	0378:00		
(T) Teóricas/Theoretical:	0000:00	(TC) Trabalho de Campo/Fieldwork:	0000:00
(TP) Teórico-Práticas/Theoretical-Practical:	0000:00	(OT) Orientação Tutorial/Tutorial Orientation:	0000:00
(P) Práticas/Practical:	0000:00	(E) Estágio/Internship:	0150:00
(PL) Práticas Laboratoriais/Practical Labs:	0000:00	(O) Outras/Others:	0000:00
(S) Seminário/Seminar:	0030:00		

### Docente Responsável / Responsible Teaching

[2163] Cristiana Do Carmo Duarte Mendes

### **Outros Docentes / Other Teaching**

[2163] Cristiana do Carmo Duarte Mendes

[48416] Ana Patrícia Morais da Fonseca Martins

### **Learning Outcomes of the Curricular Unit**

To reconceptualize the knowledge suitable for teaching Mathematics and Natural Sciences in the 2nd CEB, developing them in the context of intervention and research;

To design, develop and evaluate teaching practices in Mathematics and Natural Sciences in the 2nd CEB;

To design and implement action and research projects to deal with complex issues in relation to scientific, methodological and ethical aspects in the field of education;

To develop collaborative skills in the exercise of teaching activity, namely in the internship group;

To participate, in a reasoned manner, in the management and guidance of the group;

### **Learning Outcomes of the Curricular Unit (Lim:1000)**

To reconceptualize the knowledge suitable for teaching Mathematics and Natural Sciences in the 2nd CEB, deepening and developing them in the context of intervention and research;

To design, develop and evaluate teaching practices in Mathematics and Natural Sciences in the 2nd CEB;

To design and implement action and research projects to deal with complex issues in relation to scientific, methodological, social and ethical aspects in the field of education;

To develop collaborative skills in the exercise of teaching activity, namely in the internship group;

To participate, in a reasoned manner, in the management and guidance of their training, viewing it as a lifelong learning process.

### **Syllabus (Lim:1000)**

The management of training processes in order to teach Mathematics and Natural Sciences at the 2nd CEB is based on the elaboration of an individual work project and on the documentation and reflection of learning, in its relationship with the internship group. For this, tasks are developed in the following dimensions:

- 1) Professional, social, ethics and professional development
  - a) Review of the work project
  - b) Documentation and reflection of learning
- 2) Development of teaching and learning situations
  - a) Conception of long, medium and short term plans
  - b) Promotion of teaching and learning situations in Mathematics and Natural Sciences in the 2nd CEB, including activities and projects developed outside the classroom
  - c) Assessment and communication of student learning
- 3) Participation in the school and relationship with the community
  - a) Integration in educational teams
  - b) Familiarization with the family support component.

### **Demonstration of the syllabus coherence with the curricular units' learning objectives**

The contents allow students to have contact with teaching practice in terms of Mathematics and Natural Sciences, as well as the design and implementation of action and research projects, some of which involve interaction with the educational community, allowing them to develop skills in of various natures, within the scope of the teaching profession.

### **Teaching Methodologies (Including evaluation; Lim:1000)**

Following the model of the previous curricular unit (Supervised Teaching Practice in Mathematics and Natural Sciences in the 2nd CEB I), it is recommended, for this curricular unit, a strong and progressive involvement of students with the School (in all its dimensions) and with the classes.

For this, three fundamental stages of intervention are foreseen, which presuppose a progressive involvement of students with their professional practice:

- a) partial intervention phase;
- b) total intervention phase (1 class);
- c) total intervention phase (2 classes).

At the end, the intern teachers must deliver a portfolio, which includes 3 components:

- A - Preparation/planning, intervention/teaching and school intervention/research project(s) (60%);
- B - Reflective analysis of the school intervention project (20%);
- C - RFE - reflective analysis of practices (20%).

### **Demonstration of the coherence between the teaching methodologies and the learning outcomes**

This UC allows the planning, development and reflection of and on teaching and learning processes, at the level of Mathematics and Natural Sciences in the 2nd CEB. In this sense, students are expected to develop theoretical and practical skills related to the teaching profession.

### **Bibliografia / Bibliography (Lim:1000)**

NA