



## Study Plan

**School:** School of Social Sciences

**Degree:** Master

**Course:** Special Education, Motor and Cognitive Domain (São Tomé e Príncipe) (cód. 638)

### 1st Year - 1st Semester

Component code	Name	Scientific Area Field	ECTS	Duration	Hours
PED12171M	Education, Learning and Inclusion	Education Sciences	6	Semester	156
PSI12172M	Risk and Developmental Disorders	*** TRANSLATE ME: Educação Especial ***	6	Semester	156
PSI12173M	Communication, Language, Reading and Writing Disorders	*** TRANSLATE ME: Educação Especial ***	6	Semester	156
PED12174M	Referral and Evaluation in Special Education	*** TRANSLATE ME: Educação Especial ***	9	Semester	234

### Options

Component code	Name	Scientific Area Field	ECTS	Duration	Hours
PSI12178M	Cognitive Processes and Giving	Psychology	3	Semester	78
PSI12179M	Family and Special Educational Needs	Psychology	3	Semester	78
PED12180M	Learning Difficulties in Mathematics	*** TRANSLATE ME: Educação Especial ***	3	Semester	78
PSI12181M	Early Intervention in Childhood	*** TRANSLATE ME: Educação Especial ***	3	Semester	78

### 1st Year - 2nd Semester

Component code	Name	Scientific Area Field	ECTS	Duration	Hours
PED12175M	Curriculum, Differentiation and Intervention in Special Educational Needs	*** TRANSLATE ME: Educação Especial ***	9	Semester	234
VAR12176M	School-Employment Transition in Populations with Special Educational Needs	*** TRANSLATE ME: Educação Especial ***	3	Semester	78
PED11169M	Research Methodologies in Education	Education Sciences	6	Semester	156
PED12177M	Project Development and Development Seminar	*** TRANSLATE ME: Educação Especial ***	9	Semester	234



### 1st Year - 2nd Semester

Component code	Name	Scientific Area Field	ECTS	Duration	Hours
<b>Options</b>					
Component code	Name	Scientific Area Field	ECTS	Duration	Hours
PSI12182M	Expressive Therapies in Special Education	Psychology	3	Semester	78
PED12183M	Psychomotor intervention and Adapted Motor Activity	*** TRANSLATE ME: Educação Especial ***	3	Semester	78
PED12184M	Assistive Technologies in Special Education	*** TRANSLATE ME: Educação Especial ***	3	Semester	78

### 2nd Year - 3rd Semester

Component code	Name	Scientific Area Field	ECTS	Duration	Hours
	Thesis				
	Project Work				
	Stage Report				

### 2nd Year - 4th Semester

Component code	Name	Scientific Area Field	ECTS	Duration	Hours
	Thesis				
	Project Work				
	Stage Report				

### Conditions for obtaining the Degree:

\*\*\* TRANSLATE ME: Para conclusão do curso é necessário a aprovação (através de avaliação ou creditação) das seguintes unidades curriculares:

1.º Ano

1.º Semestre:

4 UC obrigatórias num total de 27 Ects

1 UC optativa conforme quadro de optativas num total de 3 Ects

2.º Ano

2.º Semestre

4 UC obrigatórias num total de 27 Ects

1 UC optativa conforme quadro de optativas num total de 3 Ects

Para obtenção do grau, é necessário também a aprovação na Dissertação, Relatório de Estágio ou Trabalho de Projecto, com um total de 60 ECTS, no 3.º e 4.º Semestre. \*\*\*

## Program Contents

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### Education, Learning and Inclusion (PED12171M)

I. Introduction to special education and inclusive education 1. Educational Sciences, "Disability Studies" and "Disability Studies in Education." 2. "Difference" and "Standard- History of "difference" and "disabilities". 3. Evolution of educational models concerning human "differences". a) From the medical model to the social model (Bank-Mikkelsen, Nirje and Wolfensberger). b) The ways of inclusive education: from integration to inclusion (Warnock, Salamanca, and Warnock 2). 4. Education and differences - the Portuguese case. II. Learning, development, education, differentiation and educational inclusion 1. Multiple Intelligences 2. Cognitive styles and learning styles 3. Auto and hetero-regulation: development of cognitive, metacognitive and affective-motivational skills.

III. Protective factors and personal, social and community risk: implications for education and for educational and social inclusion.



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### **Risk and Developmental Disorders (PSI12172M)**

1. Perspectives of diagnosis and classification of developmental disorders
  - 1.1.1. Diagnostic characterization (etiology, syndromes and functionality)
  - 1.1.2. ODIP, an organizational instrument of diagnosis
2. Development, critical periods and warning signs
  - 2.1. Warning signs
  - 2.2. Observation of functional symptoms and their qualitative analysis
  - 2.3. Observation of environment and of child-adult interactions
3. Risk and protective factors
  - 3.1. Risk factors: heredity and environment
  - 3.2. Risk factors and influences on development
  - 3.3. Protective factors and resilience
  - 3.4. Emotional attachment between child and care-giver
4. Developmental disorders
  - 4.1. Cognitive developmental disorders
  - 4.2. Sensory and motor disorders
  - 4.3. Autism Spectrum Disorders
  - 4.4. Multi-disabilities

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### **Communication, Language, Reading and Writing Disorders (PSI12173M)**

1. Communication and Language
  - a. Describing language
  - b. Language acquisition and development
  - c. Developmental language disorders
2. Reading and writing
  - a. Writing systems and orthography
  - b. Psycholinguistic processes involved in expert reading
  - c. Learning to read and spell
  - d. Learning disabilities in reading and writing
    - i. Assessment and diagnosis
    - ii. Educational intervention

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### **Referral and Evaluation in Special Education (PED12174M)**

Evaluation models in Special Education

- Medical model vs biopsychosocial model

Conception, planning and application of an evaluation process in SE.

-Reference process

-Information gathering

-Technological pedagogical record.

-Individual education program

-Evaluation & review of an individual education program

-Educational & social inclusion measures

Advanced critical study of observation and evaluation techniques in SE

Writing case studies and technological pedagogical records.



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### **Cognitive Processes and Giving (PSI12178M)**

1. Concepts of intelligence, cognitive processes, giftedness, high ability and talent;
2. Psychological models within the intelligence, cognitive processes and giftedness;
3. Evaluation and intervention in cognitive processes and giftedness.

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### **Family and Special Educational Needs (PSI12179M)**

1. Introduction

The family in the systemic perspective

Human Development in ecological perspective

2. A family of children and young people with educational special needs

-Family functions

-The issue of children and young people with educational special needs

-A family toward a child and youth with educational special needs

-The stress of families with children and young people with educational special needs

3. The interaction of families, children and youth with special needs with the environment.

-Communication between family and school

-Parental and family involvement in the decision making

-Practices that promote parental and family involvement in the relationship with the school and the environment.

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### **Learning Difficulties in Mathematics (PED12180M)**

1. Challenges related to learning and teaching of mathematics

Expectations regarding student skills in mathematics

Mathematics for all

2. Current perspectives on the curriculum guidelines for learning mathematics

Make sense of mathematics

Understand the mathematical ideas

Develop mathematical skills and acquire knowledge

3. Sources of difficulty learning mathematics

The senselessness

Types of reasoning

Dealing with abstraction

Dyscalculia

4. Strategies and resources to promote the learning of mathematics

Diversity of mathematical tasks

The mathematical communication

Multiple representations

Technologies as a tool

5. Potentialities of regulatory assessment in mathematics

Promoting assessment for learning

Productive feedback in mathematics



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### **Early Intervention in Childhood (PSI12181M)**

1. Definitions and aims of early intervention
2. Theoretical contributions for a early intervention model
3. Early intervention historical perspective
3. The SNIPI and politics of early intervention in Portugal
4. The process of early intervention
  - 4.1. Planning and assessment of early intervention
  - 4.2. Signaling and referral
  - 4.3. Reception and collecting data
  - 4.4. Child assessment
  - 4.5. Social and family context assessment
  - 4.6. Assessment tools
5. Intervention
  - 5.1. The child: Individual Plan of Intervention
  - 5.2. The family: PIIP e EBR
  - 5.3. Intervention in the community
  - 5.4. Guiding and following
6. Intervention teams
  - 6.1. Copnceptual models: transdisciplinary work
  - 6.2. The supports of early intervention programs

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### **Curriculum, Differentiation and Intervention in Special Educational Needs (PED12175M)**

- 1- Models and principles of curriculum development
- 2- Diversification, adaptation and flexible management of curriculum
- 3- The Individual Education Program (PEI)
- 4- Educational measures to adapt the process of teaching and learning
- 5- Models and intervention strategies for cognitive and motor developmental disorders

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### **School-Employment Transition in Populations with Special Educational Needs (VAR12176M)**

- 1 – Life-span career development  
Career development practice in childhood and adolescence  
Career as a process of transitions  
The concept of school-to-work transition
- 2- School to work transition in special needs population as a life span process  
The complementarity of ecological and self-determination perspectives on school-to-work transition  
The elaboration of Individual Transition Plans
- 3- To support school-to-work transition  
The “bilan de competences”  
The supported employment perspective  
Ethical dimensions of school to work transition in special needs populations
- 4 – Research  
Domains of research on school to work transition in special needs population



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### **Research Methodologies in Education (PED11169M)**

Epistemological foundations of research in education.

The ethics of research.

Research strategies and research designs: the interrelation between paradigm(s), problem(s), objectives and research methods.

Methods, techniques and instruments for collecting and analyzing data.

The research project and the educational action. Action research as a strategy for consolidating teaching practice.

The writing of scientific reports: the specific case of the Supervised Teaching Practice report.

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### **Project Development and Development Seminar (PED12177M)**

1 Epistemological foundations of scientific research

2. The construction of a research plan

2.1 The fit of method to research goals

2.2. Specificities of writing a research project

3. The construction of a intervention plan

3.1. Methodological particularities of action-research

3.2. Specificities of writing a intervention plan

4. Presentation of research or intervention plan

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### **Expressive Therapies in Special Education (PSI12182M)**

1-Theoretical Foundations of Expressive Therapies 2- Potentialities of Expressive Therapies

3-Expressives Arts, Promotion of Development and Inclusion

4- Expressive Therapies and Expressive Arts in Special Education

5.- Modalities of Expressive Therapies

6- Research perspectives

7 -Workshops

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### **Psychomotor intervention and Adapted Motor Activity (PED12183M)**

-Development stages of motor skills: Reflex and spontaneous movements, rudimentary skills (postural control, manipulation and locomotion) and fundamental skills

-Dynamic approach to motor development: individual, involvement and task constrains

-Psychomotor factors: muscle tone, balance, body schema, lateralization, space-time coordination, and global and fine motor praxis.

-Epistemic dimensions of psychomotricity: multidisciplinary knowledge and bio-anthropologic, psycho-neurologic and therapeutic and re-educational fundaments

-Methods for assessing and promoting psychomotor and functional abilities in students with SEN

- Holistic and progressive model of AFA

- Safety rules when working with specific disabilities and health conditions in physical education

-Adaptations for students with SEN: task, environment, curriculum, rules and instructions

-Examples and rules of specific adapted sports (e.g., boccia, goalball and seating volleyball)



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### **Assistive Technologies in Special Education (PED12184M)**

1. Concepts, models and perspectives on supporting people with disorders in cognitive and motor domains using ICT and assistive technologies.
2. ICT and Assistive Technologies for Inclusion: What the research says?
3. ICT and Assistive Technologies for people with disorders in physical and motor development
4. ICT and Assistive Technologies for people with impaired cognitive development and learning difficulties
5. ICT and Assistive Technologies for people with disorders in the field of communication and language.
6. ICT and Assistive Technologies for people with hearing and / or visual disturbances
7. Outlook assessment in the use of ICT and assistive technology in supporting people with disturbances in the cognitive and motor domains.