

Course Unit: 400362 - Applied Research Methodology

Year 3 Semester 2 ISCED Code: 0915 ECTS: 6

Type of Course Unit: Compulsory Delivery Mode: Face-to-face Language of Instruction: Portuguese

COURSE COORDINATOR: Ana Paula Lopes Tavares Martins

HOURS OF WORK

TOTAL HOURS	Contact Hours								Hours in autonomous work
	Theory	Theory and practice	Practical and laboratory work	Field work	Seminar	Internship	Tutorial guidance	Other	
150	53	22	-	-	-	-	-	-	75

Prerequisites (if applicable):

LEARNING OUTCOMES (knowledge, skills and competence)

- A. Select a set of scientific articles from electronic full text basis, from a PICO question, relevant to occupational therapy.
- B. Evaluate the scientific quality of more common research studies in the area of Occupational Therapy (Meta analysis, clinical trainings, cohort studies, case and controls studies, descriptive studies)
- C. Choose evidence sources of higher level to fundament clinical practice.

Competences:

- Shows ability to use statistics, tests and result measures
- Articulates the importance of research for a practice based on evidence with the continuous development of the profession
- Designs and implements basic level research studies, resorting to qualitative and quantitative methodologies, showing understanding and interpretation ability of descriptive, correlation and inferential statistics.

CONTENTS

1. Occupational Therapy based on evidence
2. Research synthesis
3. Systematic revisions of literature with and without Meta analysis
4. Evidence sources (Chochrane, Joanna Briggs Institute; NICE; CRD of York, ect);
5. Critical appreciation of the quality of research reports (CONSTOR, NOS, QUORUM, etc.)

DEMONSTRATION OF THE CONTENTS COHERENCE WITH THE COURSE UNIT'S LEARNING OUTCOMES

The syllabus linked to the goals (between brackets) are:

1. Occupational Therapy based on evidence (A, B e C);
2. Research synthesis (B);
3. Systematic revisions of literature with and without Meta analysis (B);
4. Evidence sources (Chochrane, Joanna Briggs Institute; NICE; CRD of York, ect); (A e C);

5. Critical appreciation of the quality of research reports (CONSTOR, NOS, QUORUM, etc.) (B).

TEACHING METHODOLOGIES

The most frequently used teaching methodologies are the one usually associated to Seminar: introductory exposition followed by a group assignment (maximum 5 students) with presentation of results in panel and subsequent discussion. The resolution of problems is also used (individual or in a small group of 3 or 2 students) with presentation and discussion of the results in "plenary". This curricular unit is subject to evaluation by group assignment.

DEMONSTRATION OF THE COHERENCE BETWEEN THE TEACHING METHODOLOGIES AND THE LEARNING OUTCOMES

The course unit objectives linked to the teaching methodologies (between brackets) are:

A. Select a set of scientific articles in full text electronic basis from a PICO question relevant Occupational Therapy (group assignment);

B. Evaluate the scientific quality of research studies more common in the Occupational Therapy area (Meta analysis, clinical training, cohort studies, cases and controls studies, descriptive studies) (group assignment and problems resolution).

C. Choose the highest leveled evidence sources to fundament the clinical practice (group assignment and problems resolution).

EVALUATION METHODS

Continuous Assessment (CA): The assessment criteria focus on specific syllabus.

- Participation focuses on demonstrated knowledge, appropriateness of interventions, sharing capabilities, among others; participation in the work / proposed exercises in class and for each of the supervisors. It is considered approved the student to obtain a minimum grade 10 (ten) the weighted average of the evaluation tests carried out and that none of them obtained less than 10 (ten).

It includes the taught syllabus. It applies to students who do not opt for Continuous Assessment.

Final Assessment in Normal Season (NS) and Resource Season (RS) includes all the taught syllabus. The first applies to students who do not opt for CA and the second applies to all students who have not passed the CA and NS. The improvements are contemplated in RS.

Approval: minimum score of 10 points, obtained by rounding. The approval in NS and RS lacks a minimum score of 10 points, obtained by rounding.

MAIN BIBLIOGRAPHY

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Carvalho, J. E. (2009). *Metodologia do Trabalho Científico*. 1.^a ed. Lisboa: Escolar Editora.

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Fortin, M.F. (2009). *Fundamentos e etapas do processo de investigação*. Loures: Lusodidacta Ed..

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Santos, L.A.B., & Lima, J.M.M.V (Coord.) (2016). *Orientações Metodológicas para a Elaboração de Trabalhos de Investigação*. Cadernos do IUM, nº 8. Lisboa: IUM

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