



UNIVERSITÀ DEGLI STUDI DI PALERMO

DEPARTMENT	Scienze Economiche, Aziendali e Statistiche
ACADEMIC YEAR	2022/2023
MASTER'S DEGREE (MSC)	STATISTICS AND DATA SCIENCE
SUBJECT	EXPERIMENTAL PEDAGOGY
TYPE OF EDUCATIONAL ACTIVITY	C
AMBIT	21031-Attività formative affini o integrative
CODE	05640
SCIENTIFIC SECTOR(S)	M-PED/04
HEAD PROFESSOR(S)	CAPPUCCIO GIUSEPPA Professore Ordinario Univ. di PALERMO
OTHER PROFESSOR(S)	
CREDITS	6
INDIVIDUAL STUDY (Hrs)	105
COURSE ACTIVITY (Hrs)	45
PROPAEDEUTICAL SUBJECTS	
MUTUALIZATION	DOCIMOLOGY WITH DOCIMOLOGY WORKSHOP - Corso: PRIMARY EDUCATION DOCIMOLOGY WITH DOCIMOLOGY WORKSHOP - Corso: SCIENZE DELLA FORMAZIONE PRIMARIA
YEAR	2
TERM (SEMESTER)	2° semester
ATTENDANCE	Not mandatory
EVALUATION	Out of 30
TEACHER OFFICE HOURS	CAPPUCCIO GIUSEPPA Tuesday 14:30 16:00 Aula TEAMS "Ricevimento studenti e tesisti". Codice di accesso aula virtuale zoipjfb

PREREQUISITES	<p>Students will be able to:</p> <ol style="list-style-type: none"> 1. Formulate an educational purpose 2. Identify an educational goal 3. Calculate from a series of data the following statistical parameters: frequency, mean and standard deviation.
LEARNING OUTCOMES	<p>Knowledge and understanding</p> <ol style="list-style-type: none"> 1. Demonstrate knowledge and understanding of Experimental Pedagogy theories, methods and principles 2. Provide further studies in Experimental Pedagogy <p>Applying knowledge and understanding</p> <ol style="list-style-type: none"> 1. Explain research design phases 2. Define and organise evaluation reserach tools <p>Making judgements</p> <ol style="list-style-type: none"> 1. Gather and interpret relevant quantitative and qualitative data 2. Discuss about research results <p>Communication skills</p> <ol style="list-style-type: none"> 1. Communicate data within educational research 2. Explain educational research results <p>Learning skills</p> <ol style="list-style-type: none"> 1. Design an educational research 2. Analyze the conditions for the extensibility of the results
ASSESSMENT METHODS	<p>It will be used different assessment tools in order to monitor and evaluate objectives.</p> <p>a. Methological and Semi-structured questionnaire to ensure the achievement of the following objectives:</p> <ol style="list-style-type: none"> 1. Examine research scientific methods in education 2. Identify methods to research 3. Investigate quantitative and qualitative methods 4. Define and structure systematic observation in educational research 5. Building the experimental research design 6. Develop and evaluate research results <p>results</p> <p>The stimuli of semi-structured questionnaire will be 8. It will allow the student to independently formulate the answer, and will be structured so as to ensure comparability with constraints that define a track for the answer (length parameters, hierarchical order of themes, concepts to be addressed, level of generalization).</p> <p>b. Oral exam to ensure the achievement of the following objectives:</p> <ol style="list-style-type: none"> 1. Define experimental research phases 2. Review and build assessment tools 3. Develop and evaluate research results 4. Analyze a final research report 5. Study the conditions for the extensibility of the results <p>The oral exam will be focus on the discussion of a hypothesis research design. The student will choose the research topic from the following issues: the development career development; perspectives for education research and education professions: the Evidence-Based Research and Design-Based Research (DBR); observation and evaluation of habit of the mind; media education and videogames. The hypothesis research design will be constructed followig the phases of classic experimental research and will be sent a week before the teacher to the mail address giuseppa.cappuccio@unipa.it</p> <p>The student who will demonstrate achievement of:</p> <ul style="list-style-type: none"> - 3/6 goals both in test and oral exam will have a grade between 18 and 22. - 4/6 goals both in test and oral exam will have a grade between 23 and 26. - 5/6 goals both in test and oral exam will have a grade between 27 and 29. - 6/6 goals both in test and oral exam will have a grade between 30 and 30 cum laude.
EDUCATIONAL OBJECTIVES	<ol style="list-style-type: none"> 1. Examine research scientific methods in education 2. Identify methods to research 3. Investigate quantitative and qualitative methods 4. Define and structure systematic observation in educational research 5. Define experimental research phases 6. Building the experimental research design 7. Review and build assessment tools 8. Develop and evaluate research results 9. Analyze a final research report 10. Study conditions for extensibility of results
TEACHING METHODS	<p>- Frontal teaching</p>

	- Practice
SUGGESTED BIBLIOGRAPHY	<p>Domenici G., Lucisano P. & Biasi V. (2018). La ricerca empirica in educazione. Elementi introduttivi. Roma: Armando Editore.</p> <p>Cappuccio G. (2021). Storie di ricerca animata. I media tra paradigmi e valutazione. Parma: Edizioni Junior.</p> <p>L'elenco dei testi sara' integrato con dispense fornite dal docente o disponibili in rete.</p> <p>The final list of the texts will be supplemented with handouts provided by the professor in charge or available on the network.</p> <p>Cappuccio G. (2014). Cartoons nella prima infanzia. I bambini e la media education. Roma: Aracne.</p>

SYLLABUS

Hrs	Frontal teaching
2	Scientific research methods in education
2	Experimental Education place in the education epistemological framework
2	Quantitative & qualitative methods
4	Systematic observation in experimental research
4	Research design planning: from questions to research style
4	Research design planning: from questions to research style
3	Experimental designs in educational research
3	Techniques and tools for data collection
4	Evaluation of results
2	Drafting of a research report
2	Conditions to the extendibility of results
Hrs	Practice
4	Experimental designs in educational research
3	Techniques and tools for data collection
6	Examples of educational research