

UNIVERSITÀ DEGLI STUDI DI PALERMO

DEPARTMENT	Medicina di Precisione in area Medica, Chirurgica e Critica	
ACADEMIC YEAR	2016/2017	
MASTER'S DEGREE (MSC)	DENTISTRY	
INTEGRATED COURSE	BEHAVIOURAL SCIENCES AND SCIENTIFIC METHODOLOGY - INTEGRATED COURSE	
CODE	17615	
MODULES	Yes	
NUMBER OF MODULES	2	
SCIENTIFIC SECTOR(S)	MED/01, M-PSI/01	
HEAD PROFESSOR(S)	MATRANGA DOMENICA Professore Ordinario Univ. di PALERMO	
OTHER PROFESSOR(S)	MICELI SILVANA Professore Associato Univ. di PALERMO	
	MATRANGA DOMENICA Professore Ordinario Univ. di PALERMO	
CREDITS	6	
PROPAEDEUTICAL SUBJECTS		
MUTUALIZATION		
YEAR	1	
TERM (SEMESTER)	1° semester	
ATTENDANCE	Mandatory	
EVALUATION	Out of 30	
TEACHER OFFICE HOURS	MATRANGA DOMENICA	
	Friday 12:00 13:30 Stanza della docente, Dipartimento di Promozione della Salute, Materno-Infantile, Medicina interna e specialistica di eccellenza "G. D'Alessandro", Via del Vespro, 133, piano terra	
	MICELI SILVANA	
	Wednesday 09:30 12:30 Edificio 15, 6 piano (studio docente)	

PREREQUISITES	The student must possess expertises and knowledges required to pass the admission test.
LEARNING OUTCOMES	LEARNING EXPECTED RESULTS Knowledge and comprehension Knowledge and understanding of basic principles, foundations and language in the field of statistics and general psychology. Ability to use knowledge and comprehension Ability to perform simple statistical analyses in the context of dentistry; ability to analyse, synthesize and argumenting ; ability to think critically and to find connections, referring to the topics of the course. Making judgments Capacity to organizing data diachronically, of personal evaluation and synchronical utilisation of achieved expertises. Communication ability Capacity to express the acquired knowledge with appropriate language. Learning ability Make the student able to learn in autonomous manner, to process and transmit the acquired knowledge
ASSESSMENT METHODS	Structured exam made of a written test for Medical Statistics and an oral test for General Psychology. The exam aims to assess knowledge and comprehension of all the topics, autonomy of making judjments, ability to use the acquired knowledge, appropriate language. The written test of Medical Statistics consists of a questionnaire made of open and synthetic questions that aim to evaluate the "knowledge" and the "know-how" acquired by the student, about all topics included in the programme, with regards to the suggested references and the materials provided by the teacher. The oral exam of General Psychology will consist of an interview that is to ascertain the possession of skills and subject knowledge provided by the course. The candidate will have to answer at least two-three questions posed orally, on all parties covered by the program, with reference to the recommended texts. The assessment is carried out of thirty. The pass mark will be reached when the student shows knowledge and understanding of the subjects at least in general terms; furthermore, the student will also have to show presentation and argumentative skills as to allow the transmission of his/her knowledge to the examiner. Below this threshold, the examination will be insufficient. The more, however, the student will be able to find own connections between the topics of the course and be able to go into detail on the subject and should be able to apply their knowledge to solve highly complex problems. B (Very good)=27-29=Very good knowledge of the teaching contents; students should show high analytical and synthetic capabilities and should be able to apply their knowledge to solve problems of medium and, in some cases, even higher complexity. C (Good)=24- 26=Good knowledge of teaching contents, and ocol language control; the student should be able to apply their knowledge to solve problems of medium complexity D (Satisfactory)=21-23=Average knowledge of the teaching contents, in some cases limited to the main topic; acceptable ability to use
TEACHING METHODS	Teaching is based on lectures and practice, also with informatics aid and supported by slides, downloadable by the unipa website.

MODULE MEDICAL STATISTICS

Prof.ssa DOMENICA MATRANGA

SUGGESTED BIBLIOGRAPHY

Libro di testo

Triola MM Triola MF, Statistica per le discipline biosanitarie, Pearson

Altri Libri consigliati Daniel W.W., Biostatistica, Edizione EdiSES M. Pagano, K. Gauvreau, Biostatistica, Ed. Idelson-Gnocchi, Napoli

Altri testi di approfondimento

Bacchieri A., Della Cioppa G. Fondamenti di ricerca clinica, Springer

AMBIT	50443-Discipline generali per la formazione dell'odontoiatra
INDIVIDUAL STUDY (Hrs)	45
COURSE ACTIVITY (Hrs)	30
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EDUCATIONAL OBJECTIVES OF THE MODULE

The course is aimed to introduce the statistical methodology useful to the comprehension of medical and dental literature. The topics include the understanding of the study design and of statistical analysis. Students will be introduced to the elementary concepts of descriptive and inferential statistics and will be able to calculate and interpret simple tests of statistical hypothesis, measures of occurrence and risk

SYLLABUS

Hrs	Frontal teaching
2	Basic concepts: qualitative and quantitative characters, discrete and continuous characters, scales of measurement: nominal, ordinal, intervals and ratio
2	Data presentation: frequency and quantity distributions. Graphical representations
2	Measures of mean and variability
2	Measures of occurrence: prevalence and incidence
4	Observational and experimental studies
3	Elements of probability theory. Bayes Theorem. Measures of accuracy of diagnostic tests
2	Theoretical distributions: Gauss and Binomial distribution
2	Central Limit Theorem. Sample distributions of sample mean and sample frequency
3	Estimate of mean and frequency. Confidence Intervals
3	Statistical tests on mean and frequency. The p-value and the statistical power of tests
2	Measuring risk: Odds ratio and Relative Risk, with confidence intervals
Hrs	Practice
1	Practice on measures of mean and variability
1	Practice on probability, sensitivity, specificity and predictive values
1	Practice on confidence intervals and statistcal tests

MODULE GENERAL PSYCHOLOGY

Prof.ssa SILVANA MICELI

SUGGESTED BIBLIOGRAPHY

TESTI CONSIGLIATI: Eysenck M., (2006), Manuale di Psicologia generale, Idelson-Gnocchi,		
AMBIT	50443-Discipline generali per la formazione dell'odontoiatra	
INDIVIDUAL STUDY (Hrs)	45	
COURSE ACTIVITY (Hrs)	30	

EDUCATIONAL OBJECTIVES OF THE MODULE

The course aims to offers to the student a framework with the main problems related to the origin of psychology, promoting a reflection on theoretical, methodological and epistemological models which guided its development. It aims to analyses different psychological functions, referring to latest achievements of experimental psychology.

Hrs	Frontal teaching
2	Origin of psychology as a science: structuralism and functionalism
2	Psychoanalysis: S.Freud
2	Gestalt theory: Kohler, Wertheimer
2	Behaviorism: Watson, Skinner, Tolman
2	Cognitivism and cognitive science
3	Genetic and developmental bases of behavior
3	Main processes of learning
3	Inner workings of motivation and emotion
3	Structure and systems of memory
3	Reasoning and problem solving
3	Language
2	Psychology of intelligence