VNIVERSITAT DE VALÈNCIA

Course Guide
42683 Epidemiology and qualitative techniques

COURSE DATA

Data Subject	
Code	42683
Name	Epidemiology and qualitative techniques
Cycle	Master's degree
ECTS Credits	4.0
Academic year	2019 - 2020

Study (s)

Degree	Center	Acad. year	Period
2124 - M.U. en Salud pública y gestión sanitaria 12-V.1	Faculty of Pharmacy and Food Sciences	1	First term

Subject-matter

Degree	Subject-matter	Character
2124 - M.U. en Salud pública y gestión sanitaria 12-V.1	1 - Methodology in public health	Obligatory

Coordination

Name	Department
ZURRIAGA LLORENS, ÓSCAR ERNESTO	265 - Prev. Medicine, Public Health, Food Sc.,Toxic. and For. Med.

SUMMARY

English version is not available

Se pretende que se domine el método epidemiológico, que será tratado en profundidad viéndose en detalle los diferentes tipos de estudios epidemiológicos y participando en el diseño de este tipo de estudios. Los alumnos deberán aprender la terminología usada habitualmente en epidemiología, salud pública y en investigación aplicada en ciencias de la salud. La causalidad será también abordada. Se ampliarán las técnicas epidemiológicas e informáticas desde el punto de vista aplicado, utilizando y procesando datos con las aplicaciones informáticas más frecuentemente utilizadas en epidemiología. La metodología cualitativa se tratará con detalle, definiendo y delimitando las técnicas y métodos necesarios en el ejercicio profesional en salud pública, describiendo las técnicas básicas cualitativas, siendo capaz, al finalizar, de discutir las condiciones de uso y la correcta utilización e interpretación de las diferentes técnicas tanto en sus aspectos básicos como de aplicación.

PREVIOUS KNOWLEDGE

Relationship to other subjects of the same degree

There are no specified enrollment restrictions with other subjects of the curriculum.

Other requirements

The recommended profile is the person in possession of an official Spanish university degree or a certificate issued by an institution of higher education in the European Higher Education Area that entitle the issuing country for access to Master's teachings. Also, can also access the graduates from educational systems outside the European Higher Education Area without the approval of their qualifications, upon verification by the University that those certify a level of education equivalent to the corresp

OUTCOMES

LEARNING OUTCOMES

The teaching-learning process in this area will help the students acquire basic skills, general and cross-listed in the general content of the Master, and in particular the development of specific skills more directly related to the following contents:

Understanding of basic concepts in epidemiology, health and public health, understanding the basics of scientific method and ability to carry out literature searches, knowledge and application of epidemiological methods and qualitative methodology, and design protocols for epidemiological research.

Following the teaching-learning process, students should be able to successfully overcome the various forms of assessment previously submitted material.

DESCRIPTION OF CONTENTS

1. Epidemiology

Introduction to epidemiology. The scientific method. Public Health and Epidemiology research methodology.
Measures of morbidity and mortality. Frequency measurements. Rate standardization.
Measures of association and impact. Risk. Risk and protection factors. Measures of risk. Statistical association, effect size, and accuracy.
Design of epidemiological studies. Types of studies.
Case series, cross-sectional studies, and ecological studies.
Case-control studies.
Cohort studies.
Intervention surveys: Experimental and quasi. Community Essays. Animal experiments. Clinical trials.
Meta-analysis. Analytical reviews of studies.

Errors in epidemiological studies. Validity and reproducibility. Random errors. Systematic errors: bias. Confounding and interaction.
Spatial analysis in epidemiology.
Screening and evaluation of diagnostic tests.
Computer software: applications to epidemiology.

2. Qualitative Techniques

Theoretical and scope of qualitative methodology. Design, sampling and selection of information sources.
Information gathering techniques.
Analysis and interpretation of information.
Presentation and evaluation of qualitative research.
Qualitative methodology: practical applications.
Consensus methods. Nominal Group Technique, Delphi, and others.

WORKLOAD

ACTIVITY	Hours	% To be attended
Theory classes	24,00	100
Attendance at events and external activities	4,00	0
Development of group work	10,00	0
Study and independent work	15,00	0
Readings supplementary material	5,00	0
Preparation of evaluation activities	15,00	0
Preparing lectures	5,00	0
Preparation of practical classes and problem	4,00	0
Resolution of case studies	10,00	0
TOTAL	**92,00**	

TEACHING METHODOLOGY

Theoretical lessons.

Reading and discussion of documents.

Resolution of practical cases.

Resolution of problems.

Problem solving.

Work aided in computer classroom.

Work in groups tutorized.

Projects development .

Seminars .

EVALUATION

Theory assessment. 85%

Attendance and participation in classes. 15%

REFERENCES

Basic

- Detels R, Beaglehole R, Lansang MA, Gulliford M (eds). Oxford textbook on Public Health. Oxford University Press Inc, 2009.
- Sierra López A, Saénz González MC, Fernández-Créhuet Navajas J, Salleras Sanmartí L, Cueto Espinar A, Gestal Otero J, Domínguez Rojas V, Delgado Rodríguez M, Bolumar Montrull F, Herruzo Cabrera R, Serra Majem L (dirs.). Medicina Preventiva y Salud pública. 11ª ed. Barcelona: Elsevier-Masson, 2008.
- Peiró S, Portella E. El grupo nominal en el entorno sanitario. Valencia: Institut Valencià dEstudis en Salut Pública, 1993.
- Delgado JM, Gutiérrez J (Ed). Métodos y técnicas cualitativas de investigación en ciencias sociales. Madrid: Síntesis Psicología, 1994.

Additional

- Argimón JM, Jiménez J, Ed. Métodos de investigación clínica y epidemiológica. Barcelona: Harcourt, 2004.
- Fletcher RH, Fletcher SW, Wagner EH. Epidemiología Clínica. 2ª ed. Madrid: Elsevier Masson, 2007
- Patton MQ. Qualitative evaluation and research methods. 3ª ed. California: Sage Publications, 2002.
- Amezcua M, Gálvez Toro A. Los modos de análisis en investigación cualitativa en salud: perspectiva crítica y reflexiones en voz alta. Rev Esp Salud Pública. 2002; 76: 423-36.

ADDENDUM COVID-19

This addendum will only be activated if the health situation requires so and with the prior agreement of the Governing Council

English version is not available