

Información del Plan Docente

Academic Year	2016/17
Academic center	104 - Facultad de Medicina
Degree	459 - Master's in Public Health
ECTS	2.0
Course	1
Period	Second semester
Subject Type	Optional
Module	---

1.Basic info**1.1.Recommendations to take this course****1.2.Activities and key dates for the course****2.Initiation****2.1.Learning outcomes that define the subject****2.2.Introduction****3.Context and competences****3.1.Goals****3.2.Context and meaning of the subject in the degree****3.3.Competences****3.4.Importance of learning outcomes****4.Evaluation****5.Activities and resources****5.1.General methodological presentation**

The pupils who deal subject had to overcome the obligatory subjects of this master: Methodology in Public Health I and II.

The subject has a fundamentally applied orientation with face to face scheduled sessions.

After a brief review of theoretical concepts It is passed to solve a practical case and them are commented and interpret the results obtained by means of statistical packages.

Then each student solves a research problem that needs statistical techniques discussed in class. This research the teacher corrects it and each student exposes the doubts and difficulties that they have been arising.

Tutorships are realized in group and individuals to demand of the pupils in which are solved the doubts and concepts that have not remained clear.

All the information stays at the disposal of the pupil in the Digital Educational Ring.

Individual study of recommended bibliography

5.2.Learning activities

1. Theoretical Practical classes
2. Study and problem solving
3. Individual study

5.3.Program

Lesson 1. COR curves.

Lesson 2. Multinomial logistic regression .

Lesson 3. Sample size estimation for different epidemiological studies designs.

Lesson 4. Exploratory Factor Analysis .

Lesson 5. Survival analysis .

Lesson 6. Cox regression.

5.4.Planning and scheduling

Lessons	Date	Time	Professor

Lesson 1. Curvas ROC Lesson 2. Multinomial logistic regression.	Firts day of class	16,30-18,30 19-21	E. Rubio
Lesson 3. Sample size estimation for different epidemiological studies designs.	Second day of class	16,30-18,30 19-21	C. Feja T. Martínez
Lesson 4. Exploratory Factor Analysis.			
Lesson 5. Survival analysis. .	Third day of class	16,30-18,30 19-21	J. Santabárbara
Lesson 6. Cox regression.	See generally master calendar		All teachers
ENTREGA TRABAJO FINAL			

5.5.Bibliography and recomended resources

- David G. Kleinbaum, Mitchel Klein (2010) Logistic Regression: A Self-Learning Text. Third edition. Ed Springer DOI 10.1007/978-1-4419-1742-3
- David G. Kleinbaum, Lawrence L Kupper, Azhar Nizan, Eli Rosenberg E. Applied regression analysis and other multivariable methods (3^a ed). Ed Nelson Education. California. 2013
- David W. Hosmer, Stanley Lemeshow (2000). Applied logistic regression. Second edition. Ed John Wiley and Sons.
- David G. Kleinbaum and Mitchel Klein (2012) Survival Analysis: A Self-Learning Text. Third edition. Ed Springer.
- David W. Hosmer, Stanley Lemeshow and Susan May (2011). Applied Survival Analysis: Regression Modelling of Time-to-Event Data. Second edition. Ed John Wiley and Sons.

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- Javier Santabárbara Serrano, Encarnación Rubio Aranda, Cristina Feja Solana (2014). Análisis de Supervivencia aplicado con SPSS. Curvas de Supervivencia y Modelo de Regresión de Cox. Ed DIGICOPY. Universidad de Zaragoza (Facultad de Ciencias Económicas y Empresariales). Zaragoza, 2014.
- Javier Santabárbara, Raúl López, Encarnación Rubio, Elena Lobo, Guillermo Marcos (2015). Cálculo del tamaño de la muestra en estudios biomédicos. Ed Prensas de la Universidad de Zaragoza. Zaragoza, 2015.
- Miguel Ángel Martínez-González, Almudena Sánchez Villegas, Estefanía A. Toledo Atucha, Francisco Javier Faulín Fajardo. Bioestadística amigable. 3^a ed. Ed. Elsevier España S.L. 2014
- Pardo Merino A. y Ruiz Díaz M.A. (2002). SPSS 11. Guía para el análisis de datos Ed. Mc Graw Hill
- Rivas, MJ. y López, J. (2000) Análisis de Supervivencia. Cuadernos de Estadística. Editorial La Muralla.