

**COURSE DATA****DATA SUBJECT**

Code: 44769
Name: Medical signals
Cycle: Master's Degree
ECTS Credits: 4.5
Academic year: 2025-26

STUDY (S)

Degree	Center	Acad. year	Period
2231 - Master's Degree in Biomedical Engineering	Facultat de Medicina i Odontologia	1	First quarter

SUBJECT-MATTER

Degree	Subject-matter	Character
2231 - Master's Degree in Biomedical Engineering	Bridging courses	ELECTIVES

COORDINATION

MATEO JIMENEZ FERNANDO

SUMMARY**PREVIOUS KNOWLEDGE****RELATIONSHIP TO OTHER SUBJECTS OF THE SAME DEGREE**

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

OTHER REQUIREMENTS**COMPETENCES / LEARNING OUTCOMES****DESCRIPTION OF CONTENTS**

1.



2.

3.

4.

5.

6.

7.

WORKLOAD**PRESENCIAL ACTIVITIES**

Activity	Hours
Theory	30,00
Classroom practices	15,00
Total hours	45,00

NON PRESENCIAL ACTIVITIES

Activity	Hours
Attendance at other activities	0,00
Individual or group project	13,00
Independent study and work	0,00
Preparation of lessons	50,00
Preparation for assessment activities	20,00
Resolution of case studies	0,00
Total hours	83,00

TEACHING METHODOLOGY



EVALUATION

REFERENCES

- The biomedical engineering: handbook / editor-in-chief Joseph D. Bronzino CRC Press, 1995. Biomedical signal processing, Akay, Metin, Academic Press, 1994 Biomedical signal processing and signal modeling / Eugene N. Bruce, John Wiley & Sons, 2001 Nonlinear biomedical signal processing / edited by, Metin Akay, IEEE Press, 2000 Signals and systems analysis in biomedical engineering / Robert B. Northrop, CRC Press, cop. 2003 Time frequency and wavelets in biomedical signal processing / edited by Metin Akay IEEE Press, 1997 Biosignal and biomedical image processing : MATLAB-based applications / John L. Semmlow, Marcel Dekker, 2005. Advanced digital signal processing / John G. Proakis, Dimitris G. Manolakis, McMillan, 1992. Tratamiento Digital de Señales. Principios Algoritmos y Aplicaciones. / John G. Proakis, Dimitris G. Manolakis, Prentice Hall, 2008. Bioelectrical signal processing in cardiac and neurological applications, L. Sörnmo, P. Laguna, Elsevier Academic Press, 2005 Todos los libros están disponibles en las diferentes bibliotecas de la UV-EG y de la UPV.