

Disciplina: INTRODUCTION ON ELECTRICAL BIOIMPEDANCE

BIA	4 Créditos
Ementa:	Basic knowledge on bioimpedance; Dielectric materials; Electrical properties of tissue; Geometry of conductors; Electrodes; Measuring systems; Modelling; Practical examples.
Bibliografia	WEBSTER, JOHN G. Medical Instrumentation – Application and Design. 3ed. John Wiley & Sons, INC, 1998. BERTEMES-FILHO, Pedro. Tissue Characterization using an Impedance Spectroscopy Probe. PhD thesis, Sheffield (UK), 2002. Brown, B. H, Smallwood, R. H., Barber, D. C., Lawford, P. V. e Hose, D. R. Medical Physics and Biomedical Engineering, Institute of Physics Publishing, Bristol, 736 pp., 1999. Neuman, M. R., Liu, C., Mendelson, Y., Buck, R. P. e Geddes, L. A. Biomedical Sensors. In: Bronzino, J. D. The Biomedical Engineering Handbook, CRC Press, Inc., p. 725-800, 1995. GRIMNES, Sverre; MARTINSEN, Ørjan Grøttem. Bioimpedance and Bioelectricity Basics. 2. ed. Oslo: Academic Press, 2008. 471 p. BRONZINO, J. D. "Management of Medical Technology: A Primer for Clinical Engineers", Butterworth-Heinemann, 1992.