

MEDIRCSCHOOL

Course: Biomedical Electronics and instrumentation

Year: 3rd

Period: 1st semester

Credits: 10

Objectives

The couse will allow students to

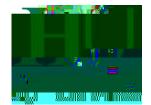
be familiar with the basic components of medical instrumentation
be familiar with the basic principles of the biomedical sensos
analyze and understand the basic principles and techniques of biomedical instrumentation
browthe main uses and applications of biomedical instrumentation in the dirical settings
understand the main limits of validity of biomedical instrumentation
compare different possible available instruments for dirical measurements
have a sense of the state of the art in the field of biomedical technology
develops a critical appears and understand the limits of measurements

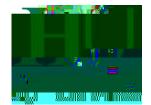
Prerequisites

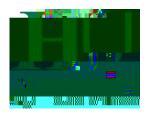
Student are required to be acquired the content of the following Gauses

Fundamentals of Experimental Physics

Chemia H







- Numerical and discrite encises
- Watching demonstrations of biomedical instruments (also incollaboration with biomedical companies)
- Partice baseddenos

Verification of learning

The final examis constituted by a written test (made of numerical exercise, open embed questions, multiple droice questions) and a final oral exam

Texts

Jing Webster (Ritor), Amit J Nimurlar (Ritor). Medical Instrumentation Application and Design 5th Rition Wiley