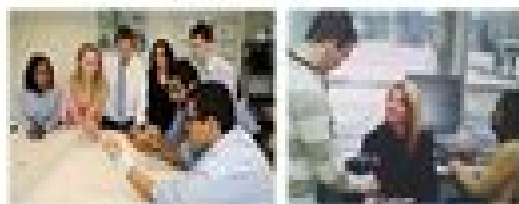


Mission: Providing hands-on experience to students to use instrumentation specific to biomedical engineering and properly interpret measurements from living systems.

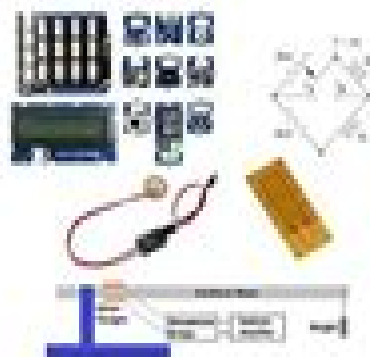


Students utilize Bioinstrumentation Lab equipment to investigate bioelectric signals and conduct innovative research projects.

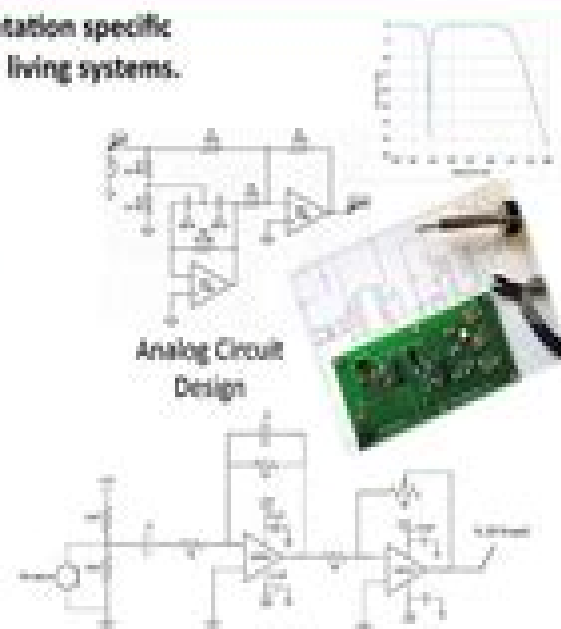


Biopac Student Lab system is used to display, record, and analyze various physiology signals

- Heart signals (ECG),
- Brain waves (EEG)
- Muscle activity (EMG),
- Nerve Conduction
- Respiratory and Pulmonary Function



Students use various sensors and actuators such as strain gauges, temperature sensors, and Piezoelectric buzzers with open-source microcontrollers such as Arduino.



Medical applications for circuit design such as diagnostic measurements, biosensors, and wearable devices are studied.



Bioinstrumentation Bioinstrumentation

Donald L. Wise



Bioinstrumentation Bioinstrumentation:

Bioinstrumentation and Biosensors Donald L. Wise, 1991-01-31 This reference text consists of contributed chapters by specialists directly carrying out research and development in this emerging field which joins advanced microelectronics with modern biotechnology Chapters present novel biotechnology based microelectronic instruments such as those used for de

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molecules cells organs and the body Each chapter includes homework problems and references for further study Extensive laboratory instructions examination and quiz questions and PowerPoint slides of figures are contained on the web site

Introduction to Bioinstrumentation Clifford D. Ferris,1978 The present volume is designed as a practical tutorial survey not only for all those interested in bioinstrumentation and its applications but also as a text for a one semester upper division undergraduate course in instrumentation for bioengineering students A knowledge of basic physics basic electronics and mathematics to elementary linear differential equations is assumed The book is well suited for use as a reference source for all research and clinical workers in the fields of biology medicine and the environmental sciences who have an adequate background in the physical sciences At the University of Wyoming the text is also used for a course in the interdisciplinary program for graduate study in the neurosciences The philosophy espoused herein is fundamental system analysis and design rather than detailed discussion of particular devices produced by commercial manufacturers Equipment oriented texts although initially useful tend to become obsolete rather rapidly Basic design and analysis techniques change little with time Discussion has been limited to devices that have found applications in the biological environmental and medical fields Many transducers used in other disciplines have been omitted It is not the author's intent to produce a compendium of transducer applications but rather an introduction to those techniques used in the environmental biological and medical sciences

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