

Centre for Health Care Technologies and Innovation

Internship Modules for Engineering students

This internship offers an in-depth understanding of biomedical signal acquisition and analysis, focusing on physiological signals such as ECG, EEG, EMG, and more. Interns will gain hands-on experience with state-of-the-art equipment and learn advanced techniques in signal processing.

Objectives:

1. To provide practical knowledge in the acquisition of physiological signals.
2. To teach methods for analyzing and interpreting biomedical data.
3. To develop skills in using biomedical equipment and software tools.

Modules Covered:

M1.Introduction to Biomedical Signals:

- Basics of physiological signals (ECG, EEG, EMG, etc.)
- Importance of signal acquisition in healthcare.

M2.Signal Acquisition Techniques:

- A. Overview of equipment and sensors.
- B. Methods for reducing noise and improving signal quality.

M3.Signal Processing and Analysis:

- A. Techniques in filtering, Fourier analysis, and wavelet transforms.
- B. Interpretation of signal features for diagnostic purposes.

M4.Hands-on Projects:

- A. Real-world applications and case studies.
- B. Projects using data from actual clinical settings.

Specialized Equipment's:

- A. Electronic Stethoscope.
- B. 12 Channel ECG Machine

Software

- A. BioPACK

For Further Information Contact:

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