



VASAVI COLLEGE OF ENGINEERING (AUTONOMOUS)
IBRAHIMBAGH, HYDERABAD
Department of Electronics and communication Engineering

Academic Year 2023-24
Introduction to Biomedical Electronics
Activity Report

Conducted for: III B.TechVSem

Date: 04/10/23-5/10/23

Name of the Activity: Virtual Lab

Mode of Conduction: Offline

Topic: [Study of Various Leads for Monitoring of Electrocardiogram \(ECG\).](#)

Description: [Study of Various Leads for Monitoring of Electrocardiogram \(ECG\).](#)

[Monitoring of Electrocardiogram \(ECG\) for bipolar limb leads L1, L2, and L3](#)

The following are covered during the session

[Various Leads for Monitoring of Electrocardiogram \(ECG\).](#)

<https://bmi-iitr.vlabs.ac.in/List%20of%20experiments.html>

[Electrocardiogram \(ECG\) for bipolar limb leads L1, L2, and L3](#)

<https://bmi-iitr.vlabs.ac.in/List%20of%20experiments.html>

Outcome of the activity conducted:

S.No.	Activity is conducted to help students to	Blooms	COs covered and justify
1.	Understanding the ECG lead positions	Comprehend	comprehend the principles of basic bioelectric signals, electrodes, and transducers in biomedical electronics.

Topic: Study of various leads and electrode position for Electroencephalogram (EEG)

Date: 06/10/23

Description: Study of various leads and electrode position for Electroencephalogram (EEG)

Study of various leads present in different lobes

Monitoring of Electroencephalogram (EEG) signals for different lobes

The following are covered during the session

1. Study of various leads and electrode position for Electroencephalogram (EEG)

2. Study of various leads present in different lobes

Monitoring of Electroencephalogram (EEG) signals for different lobes

<https://bmsp-coep.vlabs.ac.in/List%20of%20experiments.html>

Outcome of the activity conducted:

S.No.	Activity is conducted to help students to	Blooms	COs covered and justify
1.	Understanding the EEG lead positions and monitoring EEG signals for different lobes	Comprehend	comprehend the principles of basic bioelectric signals, electrodes, and transducers in biomedical electronics.

Topic: To simulate Haemodialysis Machine

Date: 11/10/23

Description To simulate Haemodialysis Machine

Objective

1. To understand the block schematics / modules involved in Haemodialysis Machine
2. To understand various measurement and control involved in Haemodialysis Machine
3. To understand overall functionality of Haemodialysis Machine

The following are covered during the session

<https://bmsp-coep.vlabs.ac.in/exp/haemodialysis-machine/>

Outcome of the activity conducted:

S.No.	Activity is conducted to help students to	Blooms	COs covered and justify
1.	understand the block schematics / modules involved in Haemodialysis Machine, various measurement and control involved in Haemodialysis Machine, and overall functionality of Haemodialysis Machine	Demonstrate	demonstrate the principle of various therapeutic, prosthetic, and non-invasive instruments for use and prediction of diseases

