

**JERUSALEM COLLEGE OF ENGINEERING
DEPARTMENT OF BIOMEDICAL ENGINEERING**

11.12.2021

Report on Workshop on “Introduction to Pspice Programming for Circuit Simulation”

The Department of Biomedical Engineering organized a One Day Workshop on the topic **“Introduction to Pspice Programming for Circuit Simulation”** on 10.12.2021 (Friday) between 10.00 a.m and 03.00 p.m for Second year BME students. Dr. Sheeja V Francis, Professor & Head / BME & Dr. J. Sivakamasundari, Associate Professor / BME were the resource persons.

The second year BME curriculum offers both theory and laboratory courses on Electronic Circuits, where the focus is on design and hardware implementation. However several licensed and Open Source Simulators are available to test the feasibility of hardware circuit design for a required response. The aim of the workshop was to introduce students to the computer simulation tool - PSPICE, to predict the response of electronic circuits prior to hardware implementation.

The Day started with a welcome note and introduction of resource persons by the Workshop Coordinator, Ms. C.L. Annapoorani AP/BME. In the first session, a brief introduction on PSPICE Software and its functionalities was given by Dr. Sheeja V Francis. She also detailed the rules, syntax and procedure to write and run PSPICE Codes in Circuit Editor, with simple RC Circuit examples. In the next session, Dr. J. Sivakamasundari, demonstrated the hardware implementation of the circuits, which were priorly simulated on PSPICE and their actual response. In the third session students were given a hands on practice to write and simulate circuits on the PSPICE Software. In the last session, students’ learning was evaluated by a design and simulate task. The Workshop concluded with a feedback session.

The workshop enabled students to understand the ease and flexibility of using Circuit Simulation tools prior to hardware circuit implementation to achieve required response.

The BME department wishes to thank the Principal and Management for the guidance and support extended in organizing this workshop.

Dr. Sheeja V Francis (Professor & Head – BME) giving introduction to PSpice



Students undergoing hands-on sessions:



Faculty members of the Department of Biomedical Engineering:

