



DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

Date : 07.12.2023

REPORT ON Three-Day work shop PCB Design

EventType	:	Workshop
Date/Duration	:	01.12.2023 to 02.12.2023 and 04.12.2023 Three days
ResourcePerson	:	1.Mr.C.SudhakarReddy–SRC e Solutions 2.Mr.P.S.SatyaKumar–SRC esolutions
NameofCoordinator(s):	:	Dr.M.V.Sudhakar & Mr.Ch.Mallikharjuna Rao
TargetAudience	:	I Semester B.Tech Students
Total no of Participants:	:	190
Objective of the event:	:	To expose the students to usage of modern tools in the design & development of PCB.
Outcome of event	:	By attending the workshop, the students can be able to perform Mini as well as Major projects.

Description/ Report on Event:

Electronics and Communication Engineering (ECE) department, Lakireddy Bali Reddy College of Engineering, Mylavaram, and Reconfigurable Computing Club (RC Club) in association with SRC e Solutions Pvt. Ltd. and Institutions Innovations Council (IIC) jointly organized the three day work shop on PCB design.

The three-day workshop commenced with an inaugural address delivered by Dr. Y. Amar Babu, the Head of the Department of ECE. In his speech, he emphasized the importance of the workshop. It was stated that students should consistently acquire the fundamental knowledge necessary for undertaking both minor and major projects. Dr. M.V. Sudhakar, the coordinator of the RC club, has informed the students about the department's efforts to improve the students' learning and presentation abilities. The department has established an RC club with the aim of developing the students' inherent skills and familiarizing them with the latest developments. The Reconfigurable Computing Club is now engaged in many activities. It is recommended that all students actively engage in such events to improve their talents.

During the workshop, the presenters, Mr. C. Sudhakar Reddy and Mr.P.S.Satya Kumar, explained the fundamental principles of circuit design. In conventional laboratories, the breadboard is commonly utilized for conducting experiments; however, its reliability is not always guaranteed. Failure to include any wire will have a direct impact on the outcome of the experiment. In contrast to this situation, if printed circuits are present, batch production can be employed to produce many boards. The students were provided with an explanation of the importance of PCB design and the sequential phases involved in the design process. The layout and interconnects should be meticulously prepared to ensure a board that is free from any potential issues in the near future. All the students were escorted to the Systems and Signal Processing laboratory to simulate the process of PCB design. All students have familiarized themselves with Proteus software, which is used for electronic circuit simulation. Students were escorted to the EDC seminar hall to physically create circuits that they had previously simulated. The students have performed etching. All the students were divided into batches and given the opportunity to engage in hands-on practice for various stages of circuit preparation.

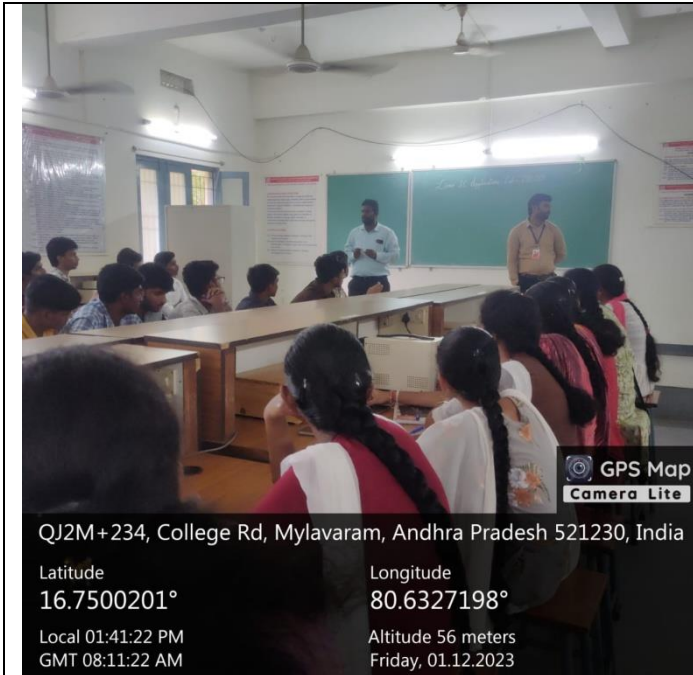
Feedback/Suggestions:

1. More time for practice session
2. More hardware components are to be given as each can practice effectively.
3. Soldering should be done by students

Comments on feedback:

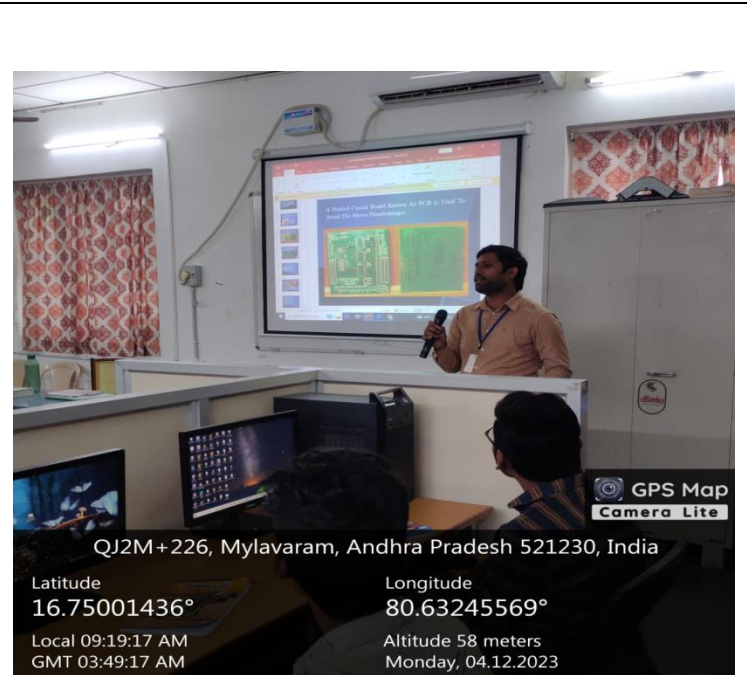
1. Batch size will be reduced from next time onwards so that individual effort can be increased.
2. The duration of the practice session will be increased from next time onwards.

Photos:



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Introductory session by Sri.C.Sudhakar Reddy, SRC e solutions, Vijayawada

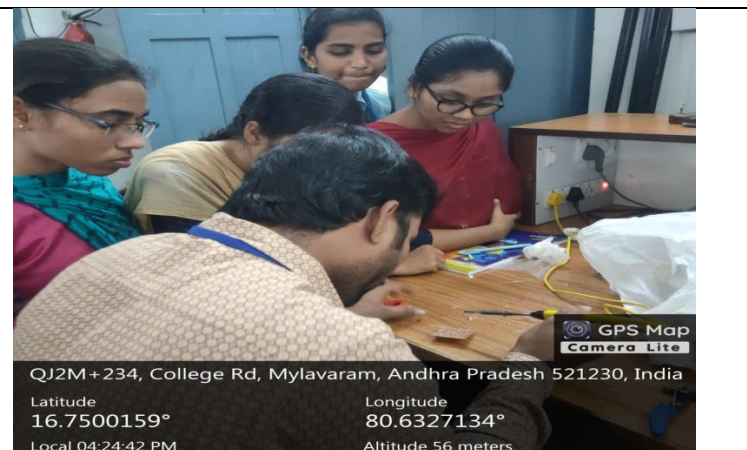


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Session by Sri. P.S.SatyaKumar, SRC e solutions, Vijayawada



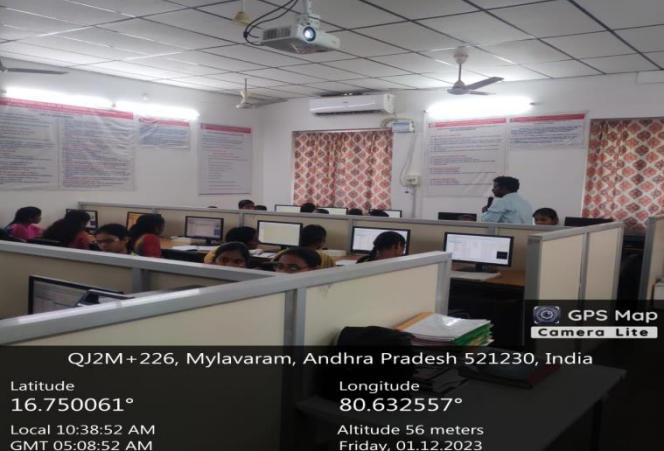
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Practice session using Proteas software

Students implementing the circuit designed using hardware