

WORKSHOP

on

EMBEDDED SYSTEMS

Organized by

**Department of Electronics and Communication Engineering
(ECE)**

in Collaboration with APSSDC

Batch

E.C.E A&B

(IIIrd yr Ist semester)

Dates

07-08-2023 to 19-08-2023



AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY

(Approved by A.I.C.T.E., New Delhi & Permanently Affiliated to J.N.T.U-GV, Vizianagaram)

NAAC "B++" Accredited Institute

Cherukupally (Village), Near Tagarapuvalasa Bridge, Vizianagaram (Dist) -531162.

www.aietta.ac.in, principal@aietta.ac.in

Department Of Electronics and Communication Engineering (ECE)

Consolidate Report on the Workshop

1. Topic:

Embedded Systems

2. Venue:

Avanthi Institute of Engineering and Technology, Cherukupalli (v), Tagarapuvalasa, Vizianagaram (Dist.), Andhra Pradesh.

3. Dates:

07-08-2023 to 20-08-2023

4. Faculty Coordinators:

- 1) Mr. M.Vinay Kumar
- 2) Mr. P.Lokaranjan Rao.

5. Resource Persons:

- 1) Mr.M. Umamaheswara Rao – Executive Technical-APSSDC
- 2) Mr.Ch. Santhosh- Executive Technical – APSSDC

6. Focus of the Workshop:

The main motive behind organizing the workshop is make the students aware of different technologies involved in designing an embedded system and to give the students some handsome experience on the concerned tools.



AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY

(Approved by A.I.C.T.E., New Delhi & Permanently Affiliated to J.N.T.U-GV, Vizianagaram)

NAAC "B++" Accredited Institute

Cherukupally (Village), Near Tagarapuvalasa Bridge, Vizianagaram (Dist) -531162.

www.aietta.ac.in, principal@aietta.ac.in

7. Sessions:

The sessions in a day were divided among the two batches, each batch having at least 60 members. The topics covered each day are tabulated below.

Date	Topics Covered
07-08-2023	Introduction of Embedded Systems (Batch-1, ECE-A), Keil IDE introduction
08-08-2023	Introduction of Embedded Systems (Batch-2, ECE-B), Keil IDE introduction
09-08-2023	Programming an embedded system
10-08-2023	Designing circuits using proteus
11-08-2023	Interfacing LEDs and switches, Traffic lights control
12-08-2023	Introduction to tinker CAD with simple Examples
14-08-2023	Designing in Tinker CAD with simple examples
16-08-2023	Simulation with simple examples
17-08-2023	Sensor usage in smart rooms
18-08-2023	Seven segment display working in tinker CAD
19-08-2023	Interfacing LCD, Servo Motor

Fig: Table showing the Topics Discussed each day

8. Student attendance (In terms of %)

S.No	Department	Total Students (100%)	Percentage of attendance
1	ECE	127	96%

Fig: Showing percentage of students attended the workshop



AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY

(Approved by A.I.C.T.E., New Delhi & Permanently Affiliated to J.N.T.U-GV, Vizianagaram)

NAAC "B++" Accredited Institute

Cherukupally (Village), Near Tagarapuvalasa Bridge, Vizianagaram (Dist) -531162.

www.aietta.ac.in, principal@aietta.ac.in

9. Poster:

AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY
(Approved by AICTE, New Delhi & Permanently Affiliated to J.N.T.U-GV, Vizianagaram)
NAAC "B++" Accredited Institute
Cherukupally(Village),Near Tagarapuvalasa Bridge, Vizianagaram(Dist)-531162.

**WORKSHOP
ON
EMBEDDED SYSTEMS**

Dates: 07-08-2023 to 19-08-2023

Organized by
Department
Of
Electronics and communication Engineering (ECE)
in collaboration with APSSDC

Resource Persons
M. Umamaheswara Rao, Executive Technical–APSSDC
Ch.Santhosh,, Executive Technical –APSSDC

Fig: showing the Designed poster for the event



AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY

(Approved by A.I.C.T.E., New Delhi & Permanently Affiliated to J.N.T.U-GV, Vizianagaram)

NAAC "B++" Accredited Institute

Cherukupally (Village), Near Tagarapuvalasa Bridge, Vizianagaram (Dist) -531162.

www.aietta.ac.in, principal@aietta.ac.in

10. Photographs:



Fig: Mr. Umamaheswar Rao delivering the content to the students



Fig: Showing Batch-1 (ECE A) students working on the hands-on task



AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY

(Approved by A.I.C.T.E., New Delhi & Permanently Affiliated to J.N.T.U-GV, Vizianagaram)

NAAC "B++" Accredited Institute

Cherukupally (Village), Near Tagarapuvalasa Bridge, Vizianagaram (Dist) -531162.

www.aietta.ac.in, principal@aietta.ac.in



Fig: Showing Batch-2 (ECE B) students working on the hands-on task



Fig: showing the trainer addressing the students on Day 2



AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY

(Approved by A.I.C.T.E., New Delhi & Permanently Affiliated to J.N.T.U-GV, Vizianagaram)

NAAC "B++" Accredited Institute

Cherukupally (Village), Near Tagarapuvalasa Bridge, Vizianagaram (Dist) -531162.

www.aietta.ac.in, principal@aietta.ac.in

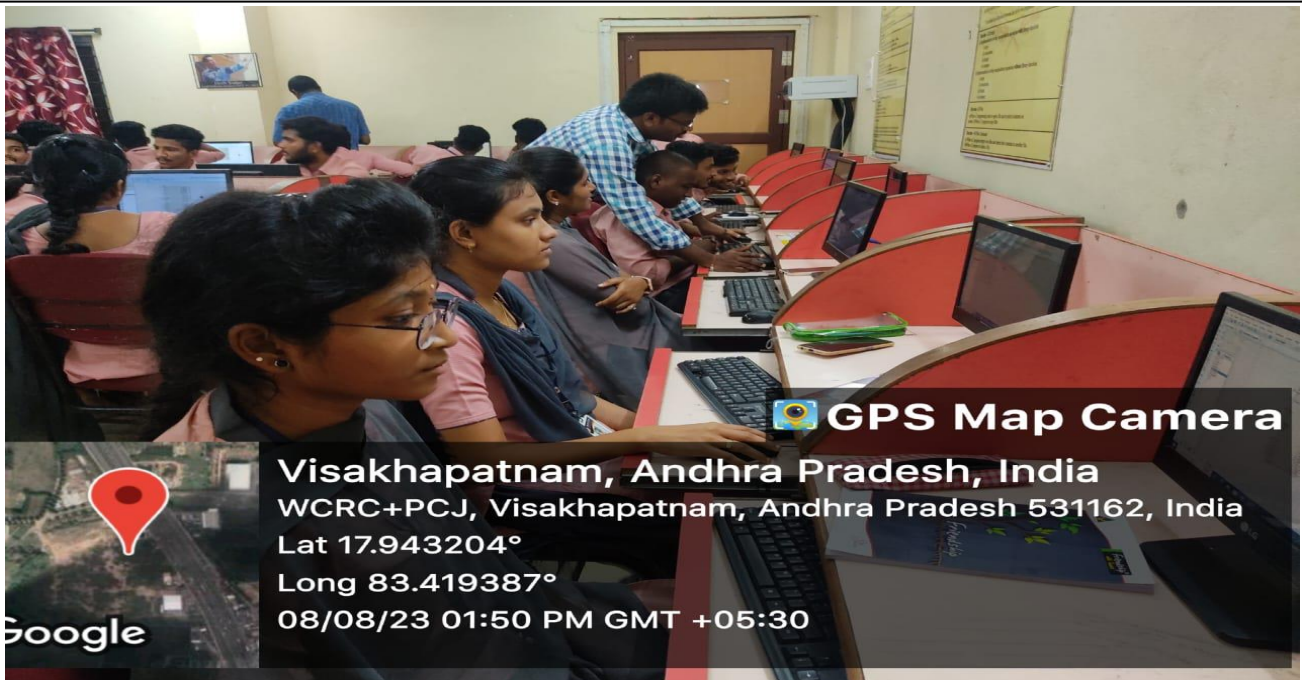


Fig: Showing Mr.Umamaheshwar Rao helping the students to design a circuit and explaining him the errors that were present

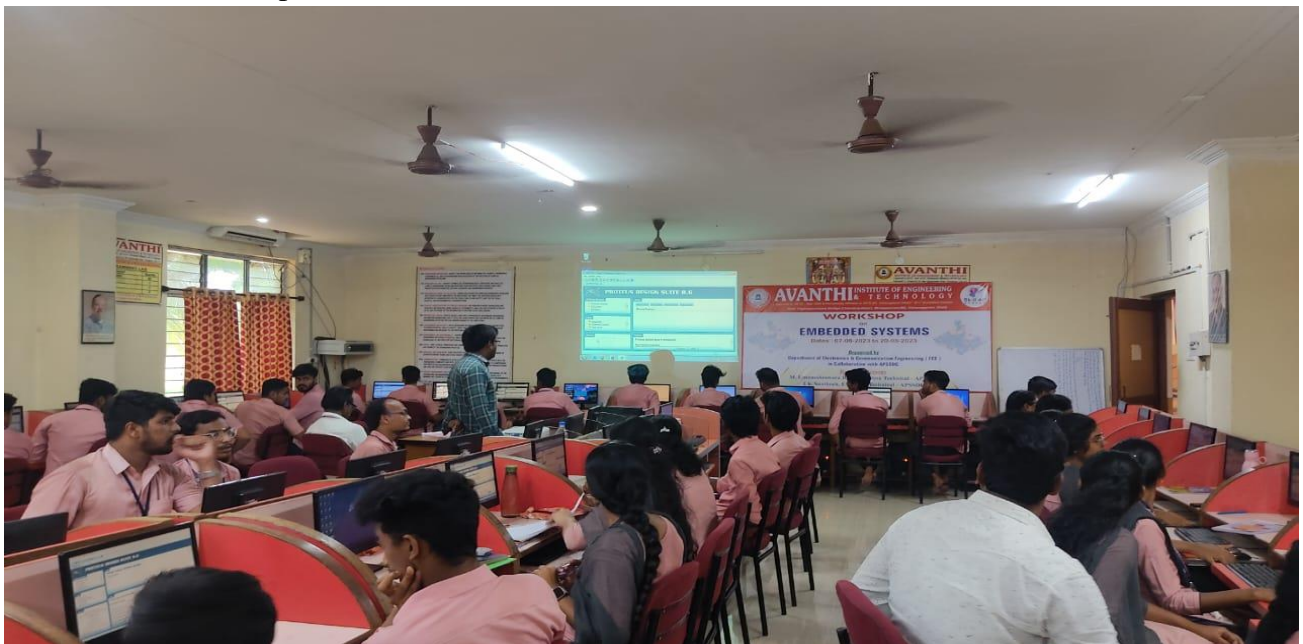


Fig: Showing students being explained about Tinker CAD

Signature of the HOD (ECE)