



**P.B.SIDDHARTHA COLLEGE OF ARTS AND SCIENCE**

**DEPARTMENT OF ELECTRONICS**

**DEPARTMENTAL ACTIVITIES FOR YEAR 2022-23**

1	20-06-2022	Students of II B.Sc(M.E.Cs) participated in " <b>ELECTRO 2K22</b> " conducted by <b>NALANDA</b> degree college and won 2 <sup>nd</sup> Prize in TECHNICALQuiz,1 <sup>ST</sup> PRIZE IN PROJECT EXPO,IC IDENTIFICATION-1 <sup>ST</sup> , 2 <sup>ND</sup> CIRCUIT DEBUGGING -2 <sup>ND</sup> PRIZE.
2	16-07-2022	Sri D. Srinivasa Reddy attended <b>B.O.S</b> meeting as subject expert in Electronics at Sir C.R. Reddy College of Autonomous, Eluru.
3	18-07-2022	Sri.K.S.V.SAMBASIVARAO Attended B.O.S meeting in Electronics at ADIKAVI NANAYA UNIVERSITY ,RAJAHMUNDRY
4	30-7-2022	Students of IIB.Sc (M.E.Cs) Visited " <b>EFFTRONICS</b> " as part of technical visit.
5	13-08-2022	Students of II B.Sc (CA.M.E) Visited " <b>EFFTRONICS</b> " as part of technical visit.
6	23-10-2022	Final year students participated in neighbourhood activity at Nunna, Agiripalli mandalam
7	04-11-22 & 05-11-22	Sri. D. Srinivasa Reddy attended as a resource person in <b>Faculty Development Program</b> on "Internet of Things" conducted by Sir C.R. Reddy College of Autonomous, Eluru.
8	8-11-2022	Sri.K.S.V.SAMBASIVARAO attended B.O.S meeting in Electronics at J.K.C college, Guntur
9	08-12-2022	Guest lecturer in "HAM RADIO" by Prof.A.RameshbabuVU2RD ,Vijayawada.
10	26-12-2022	PPT presentation by II year MECS students conducted by final year students.
11	29/12/2022	Our final year students participated in "SAVISHKAR" conducted by Vijaya institute technology for women and won first and second prizes in Project Expo and second prize PPT.

K.S.V.SAMBASIVARAO,

HEAD, DEP.OF.ELECTRONICS



**P.B.Siddhartha College of Arts & Science::Department of ELECTRONICS**  
20-06-2022, 2 PM

Students of II B.Sc(M.E.Cs) participated in " **ELECTRO 2K22**" conducted by **NALANDA** degree college and won 2<sup>nd</sup>Prize in TECHNICALQuiz,1<sup>ST</sup> PRIZE IN PROJECT EXPO,IC IDENTIFICATION- 1<sup>ST</sup>,2<sup>ND</sup>prizes,CIRCUIT DEBUGGING -2<sup>ND</sup> PRIZE.





**P.B.Siddhartha College of Arts & Science::Department of ELECTRONICS**

**18-07-2022, 2 PM**

**B.O.S meeting at ADIKAVI NANNAYA UNIVERSIY, Vijayawada**

Attended B.O.S meeting at ADIKAVI NANNAYA university- RAJMUNDARY on 18=07-2022.





**P.B.Siddhartha College of Arts & Science::Department of ELECTRONICS**  
30-07-2022, 2 PM  
**Industrial visit to Efftronics,mangalagiri, Vijayawada**

B.SC(M.E.Cs) FINAL YEAR students attended Industrial visit to Efftronics, mangalagiri, Vijayawada on 30/07/22.



**EFFTRONICS:** IN 1985 with collaboration of two persons and the first product for this organisation is single colour LED display board after they introduce so many product like multicolour LED display board etc.

➤ **Smart Cities:**

In smart cities LED's are used.

In LED there is RGB colours.

In can be done by using different light techniques.

These LED's can be used in Railway signalling.

The initial stage of smart cities LED's are 60v.

These smart LED's save the 1/10 part and they saves the voltage and make to 5v.

➤ **LENS operation on LED's and angle operation.**

There are some applications like Two way switches and They can be operate one switch to operating many LED's.

**IOT:** IOT means interconnections of physical and visual objects.

➤ **Applications of IOT**

IOT system is used in Ambulance system when there is any call from patient the call connect to all server's of the ambulance where the patient call is near to ambulance that ambulance go to that patient.

➤ **Smart Signalling:**

Smart signalling can be used in many ways:

1. Railway signalling: In railway signalling smart cities can be used to communicate between two stations. They done operations between stations also mean block part.

2. Types of signalling:

Automatic signalling: In this signalling the signal will pass by itself.

Manual signalling: In this signalling the signal will pass by operators.

3 .By smart signalling we have to set the tracks easily.

➤ **Smart building:**

In smart building there is some products like 3D printer.

3D printer: 3D printer means soft engineering program or process change theoretical to practical.

It has cost estimation which is correct for the production there is some optimum production of products into the market.

IOT also used in apps like OLA , UBER .

IOT also used in upcoming experiments like tesla.

IOT used in customer oriented services.

Food deliveries

Travelling services

These IOT has sensor application is used to develop the idea for research to give a proper result.

In IOT some updated technologies for developing applications for the market to get good profit.



### P.B.Siddhartha College of Arts & Science::Department of ELECTRONICS

13-08-2022, 2 PM

### Industrial visit to Efftronics,mangalagiri, Vijayawada

B.SC(CA.M.E) FINAL YEAR students attended **Industrial visit to Efftronics, mangalagiri, Vijayawada** on 13/08/22.The number of students attended is 50.





**P.B.Siddhartha College of Arts & Science::Department of ELECTRONICS**

**23-10-2022, 5 PM**

**Neighbourhood Activity, Donated Fruits for mother teresa ashram, Vijayawada**

B.SC(CA.M.E) FINAL YEAR students conducted **NEIGHBOUR HOOD** activity at Nunna, Agiripalli mandalam at mother teresa ashram.Vijayawada on 23/10/22.





**P.B.Siddhartha College of Arts & Science::Department of ELECTRONICS**  
**08-11-2022, 2 PM**  
**B.O.S meeting at J.K.C COLLEGE, GUNTUR,Vijayawada**



**P.B.Siddhartha College of Arts & Science :: Department of Electronics**  
**8<sup>th</sup> December 2022, 3:30 P.M to 5 P.M**  
**Guest lecture on “HAMRADIO”**

**Objective:** To explain about HAM RADIO.

The Department of Electronics, P.B.Siddhartha College of Arts & Science had organized a Guest lecture on **“How to get HAMRADIO license”** on **08<sup>th</sup> December 2022, 3:30 P.M to 5 P.M** for Under Graduate. Prof.A.Ramesh babu, VU2RD,Vijayawada was the resource person.

He explained

- The latest technologies in HAM RADIO.
- In this RADIO frequency is been used and it's frequency range is 500 MHZ to 1000MHZ.
- In this Morse code has been used as dot and dashes.
- To get a license (a) Basic Electronics (b) Communication are required for a student.
- The amount require to buy a Basic Walkie talkie is 2,500/- and we can interact with person in space without internet and it is wireless communicator.

Number of Students Attended: 220

Outcome of Seminar:

- Students are able to gain awareness on HAM RADIO.

Resource Person: . Prof.A.Ramesh Babu, VU2RD.,Vijayawada



Mobile: 9248346843. Email: rdmramesh@gmail.com

Event Coordinator:

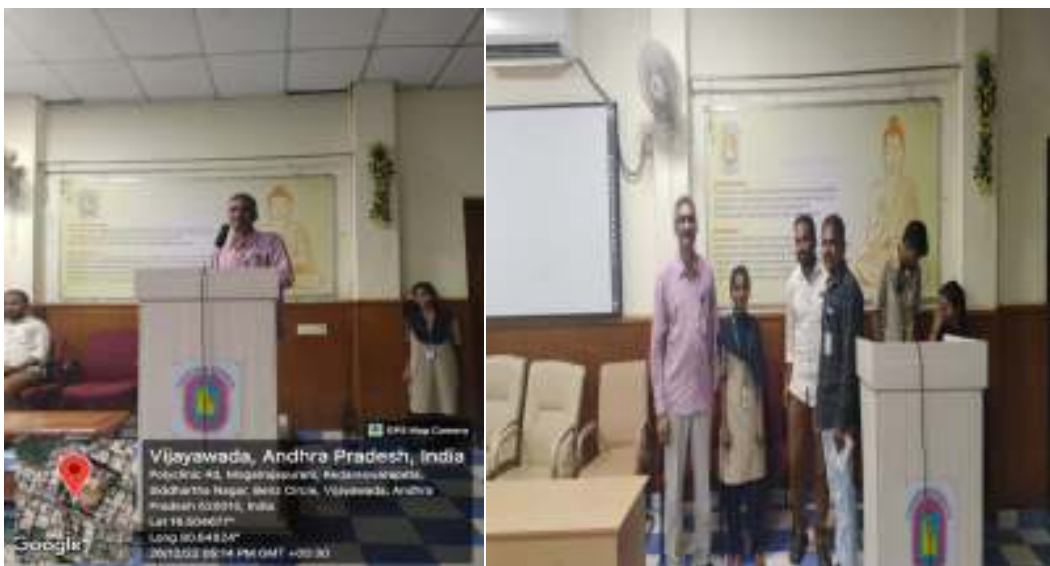
1. K.S.V.SAMBASIVA RAO, HOD, Dept of Electronics.





**P.B.Siddhartha College of Arts & Science :: Department of Electronics  
26<sup>th</sup> December 2022, 3:30 P.M to 5:30P.M**

The Electronics Department Conducted PPT Presentation to II M.E.Cs Students. They Performed Very Well. It is Very Useful to the Students by conducting this type Of Activities. They Gain The Knowledge On Various Things and they Improve Good Communication skills.







**P.B.Siddhartha College of Arts & Science::Department of ELECTRONICS**  
29-12-2022,

Students of Iii B.Sc(M.E.Cs) participated in "savishkar " conducted by Vijaya institute of technology for women 1<sup>ST</sup> PRIZE IN PROJECT EXPO 1.Imdaad,sujith,giridhar., 2<sup>ND</sup>prizes in PROJECT EXPO 1.Bhanu prakash, Ganesh, sunil reddy-2<sup>ND</sup> PRIZE in PPT by Iliyas.

