



College of Engineering  
(Autonomous)

**GAYATRI VIDYA PARISHAD COLLEGE OF ENGINEERING (Autonomous)**

Approved by AICTE & Affiliated to Andhra University, Visakhapatnam from 2022-23

(Affiliated to JNTUK, Kakinada upto 2021-22)

Re-accredited by NAAC twice with 'A' Grade with a CGPA of 3.47/4.00

Madhurawada, Visakhapatnam - 530048



**A REPORT ON**  
**ONE DAY HARDWARE EXPO**  
**HELD ON 25<sup>th</sup> FEBRUARY 2023**

**GAYATRI VIDYA PARISHAD**  
**COLLEGE OF ENGINEERING (AUTONOMOUS)**  
**DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING**  
**Presents**  
**HARDWARE EXPO**  
**February 25, 2023**  
**Organized by**  
**IETE Student Forum , GVPCE(A)**  
**in association with**  
**IETE Visakhapatnam Centre**

**Organized By:**

IETE Student Forum,  
Department of Electronics and Communication Engineering,  
Gayatri Vidya Parishad College of Engineering (A),  
Visakhapatnam - 530048



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### **ABOUT IETE:**

The Institution of Electronics and Telecommunication Engineers (IETE) was founded in 1953 and is one of the leading professional societies in India. The IETE student forum of GVP consists of enthusiastic and talented students formed as a group, to upskill themselves through a series of events.

### **ORGANIZING PLAN OF ACTION:**

#### **1. 3<sup>rd</sup> February 2023 :**

- As per Secretary General, IETE New Delhi, an instruction was given to celebrate **IETE Students Day** and conduct student activities during the month of February, 2023 to ISF GVPCE(A). Thus IETE Student Forum GVPCE(A) has decided to conduct a "One Day Hardware Expo" following the acceptance from Honorable Head of the Department Dr. N. Deepika Rani under the guidance of faculty co-ordinators Dr. B. Keerthi Priya and Smt. U. Divya Sree.
- Requested Prof. P. Rajesh Kumar, Chairman, IETE Visakhapatnam Centre to preside over as Chief Guest for the event.

#### **2. 5<sup>th</sup> February 2023 :**

- A poster cum brochure for the promotion of the event was made by S.Chaturya.
- Promotions for the event were started and the poster was published on various social media platforms in order to reach as many students as possible.



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**IETE STUDENT FORUM**  
*cordially invites you to participate in*  
**HARDWARE EXPO**  
on  
**25<sup>th</sup> FEBRUARY, 2023**

**Project Domains (Topics)**

- ▶ Industry Automation
- ▶ Bio-medical
- ▶ Agriculture
- ▶ Green Technology
- ▶ Smart Home services
- ▶ Rescue Operation
- ▶ Disaster Management.

**Cash Prize**

- 1st prize Rs.5000/-
- 2nd prize Rs.3000/-
- 3rd prize Rs.2000/-

**FOR REGISTRATION**

**REGISTRATIONS OPENS ON:**  
11/ 02/ 2023  
Saturday

**FACULTY CO-ORDINATORS :**

1. Dr. B. Keerthi Priya
2. Smt. U. Divya Sree

**RULES FOR REGISTRATIONS :**

- Three members per team
- Registration fee Rs.450/- per team
- Participation certificates will be provided to all the participants
- Join Whatsapp group through the link provided at end of registration.

**STUDENT CO-ORDINATORS :**

- 1.K. Durga Prasad
- 2.G.Praveen
- 3.M.Jaswanth Naidu
4. A.Varun Kumar
- 5.Anil Kumar

### 3. 11<sup>th</sup> February 2023:

- K. Durga Prasad and the team went for sponsorship.
- A Sponsorship of Rs 6000/- has been issued by Reliance Digital.
- The promotion of the Hardware Expo began by visiting various colleges and informing them about the event, thus encouraging their participation.

### 4. 14<sup>th</sup> February 2023:

- V.Anil Kumar led a promotions team that promoted the Hardware Expo in three different engineering colleges: Maharaj Vijayaram Gajapathi Raj College of Engineering, SITAM Institute of Technology and Management, and Jawaharlal Nehru Technological University (V) in Vizianagaram.
- K. Durga Prasad led a promotions team that started promoting the Hardware Expo in the GVPCE (A).



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- A. Varun led a promotions team that went to Anits Engineering College and Avanti Engineering College for promotions.

### **5. 15<sup>th</sup> February 2023:**

- A Promotions team led by D. Linga Reddy went to Vignan Engineering College, Vignan Women's Engineering College, Nadimpalli Satyanarayana Raju Institute of Technology Engineering College, and Sai Ganapathi Engineering College for promoting about Hardware Expo.
- G. Praveen and Team went for Sponsorships.
- A Promotions team led by T. Om Satya went to Raghu Engineering College, Lendi Engineering College, Baba Institute of Technology and Sciences Engineering College for promotions.
- A Promotions team led by A. Varun went to Gandhi Institute of Technology and Management (GITAM), Andhra University, Andhra University (Women's), and Gayatri Vidya Parishad (PG) for promotions.

### **6. 16<sup>th</sup> February 2023:**

- A Promotions team led by K. Venkat went to Sankethika college of Engineering and Chaitanya College of Engineering for promotions.
- A Promotions team led by P. Manasa went to Gayatri Vidya Parishad College of Engineering (Women's) for promotions.

### **7. 24<sup>th</sup> February 2023:**

- All the Registrations for Hardware Expo have been completed with a total registration of 62 teams.
- A souvenir book was designed by L. Daniel and team containing the abstracts of all the projects up for submission.
- Decorations were made in the Main Auditorium. Posters were arranged, and the decorations team led by M. Jaswanth Naidu made all the decorations for Hardware Expo.
- The Rangoli team led by I. Prathyusha made a few rangolis.
- The Technical lead Praveen and the team have arranged the benches, plug points, etc.
- The Certificates to be issued were designed by Pradeep and printed.





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### **Hardware Expo Day- 25<sup>th</sup> February 2023:**

- 10:00 AM: The Chief Guest Prof. P. Rajesh Kumar, Chairman, IETE Visakhapatnam Centre, leads the inauguration ceremony.
- 10:05 AM: Introduction to the Hardware Expo 2023 given by Reshmitha.
- 10:08 AM: Light Lamping Ceremony is held.
- 10:10 AM: Prayer song sung by K. Reshma.
- 10:13 AM: Speech given by Head of Department of ECE Prof. N. Deepika Rani is addressed to the participants of Hardware Expo 2023.
- 10:16 AM: Speech given by Principal Prof. A. B Koteswara Rao to the participants of Hardware Expo 2023.
- 10:20 AM: Message given by IETE President Dr. V. Gunasekhar Reddy is read by I. Pradeep.
- 10:25 AM: Speech given by Chief Guest Prof. P. Rajesh Kumar is addressed to the participants of Hardware Expo 2023.
- 10:27 AM: The Souvenir is launched by the Chief Guest.
- 10:29 AM: Principal Prof. A. B Koteswara Rao felicitated the Chief Guest Prof. P. Rajesh Kumar and a memento is presented to him as a token of remembrance.
- 10:30 AM: Event is officially declared open. Students showcase their various projects.
- 12:30 PM: Lunch time
- 4:00 PM: Showcasing of projects is brought to an end. Winners for top 3 projects are announced and are given prizes and certificates. Participation certificates are distributed to all the participants.
- 5:00 PM: Vote of thanks is given by P. Manasa and the event is officially concluded.







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### Expo Winners:

Position	College/University	Project Title	Names of the participants
1st	GMRIT	Braille Keyboard for Blind People	B.Dhanalaxmi
			D.Jagan
			B Jahnavi
			D.Harsha Aditya
2nd	Government Polytechnic (Pendurthi)	Iot Based Artificial Cpr Device	K A Balaji
			M. Ramesh
			P. Naga Jahnavi
3rd	GVPCE(A)	The Smart Buoy	J. Pardha Praneeth
			J.Yaswanth
			J.Jahnavi
			J.Devi Ratnamala

### Summary:

A total of 219 students have participated in the "Hardware Expo" and have showcased their projects. All the participants showed a lot of energy and enthusiasm throughout the event. Students who came to see these projects were happy to be exposed to a wide variety of projects and ideas. The entire ISF team is proud to be able to host such a successful event and would like to thank the Principal and the management for their advice and cooperation



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EVENT	DETAILS
<b>Event Date</b>	25 <sup>th</sup> February 2023
<b>Organized By</b>	IETE Student Forum (ISF), Electronics and Communication Engineering, GVPCE(A)
<b>Event Activities</b>	Showcasing and demonstration of various projects
<b>Teams</b>	Designing Team Technical Team Marketing & Promotions Team Editorial & Documentation Team Decoration Team Web Designing Team
<b>Judges</b>	Dr. N. Bala Subrahmanyam (Professor, Department of ECE) Dr. V. Leela Rani (Associate Professor, Department of ECE) Dr. Padma Ganasala (Associate Professor, Department of ECE) Dr. P. Aruna Kumari (Assistant Professor, Department of ECE) Dr. U.N.V.P. Rajendranath (Assistant Professor, Department of ECE) Dr. Pratik Mondal (Assistant Professor, Department of ECE) Mrs. P.R. Sri Satya (Assistant Professor, Department of ECE)
<b>Faculty Coordinators</b>	Dr. B. Keerthi Priya (Assistant Professor, Department of ECE) Smt. U. Divya Sree (Assistant Professor, Department of ECE)



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<b>Student Coordinators</b>	D. Pavan (Chairperson, ISF) I. Y. V. K. V. S Pradeep (Secretary, ISF) K. Durga Prasad (President, T&Y) G. Praveen (Vice-President, T&Y) P. Reshmitha (President, Electrozoom) L. Daniel (Secretary, Electrozoom) I. Prathyusha ( Rangoli Team)
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### Appendix: List of Projects

TEAM NO	COLLEGE NAME	PROJECT NAME	STUDENT NAME
1.	Andhra University College Of Engineering(A)	Advanced Industrial Monitoring (AIM)	Shaik Ruhi Thabassum
			Jasti Indu Bhavana
			Talari Mounika
			Malla Chandrika Ramya
2.	Andhra University College of Engineering(A)	SMART GARDENING	Neerasa Mounika
			Kommuri Dharani Deepthi
			Mallidi Ravi Tejaswi
			Pasumarthi Leela Sowmya
3.	Anil Neerukonda Institute Of Technology And Sciences	Finger Print Bike Start	Sk. Malik Vali
			Koti Manikanta
4.	Anil Neerukonda Institute Of Technology And Sciences	Train Accident Prevention	Josna Sri
			Bhasker
			Manisha
5.	Anil Neerukonda Institute Of	Obstacle Avoiding Robot	B. Vamsi Krishna
			R. Rohit Sarma
			B. Sanjana



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	Technology And Sciences		S. Ahalya
6.	Anil Neerukonda Institute Of Technology And Sciences	Plant Watering System With New Blynk Update	G.Geethanjali Y.Sai Prasanna N.Sai Lakshmi Harshitha
7.	Anil Neerukonda Institute Of Technology And Sciences	Artificial Intelligence And Machine Learning In Electronics	Nekkanti Mohan Sandeep Ch. Sri Vasu Ch. Niharika B. VIVEK REDDY
8.	Anil Neerukonda Institute Of Technology And	Solar Tracking System	P.Roshini Ch. Jayasri G Aswitha
9.	Anil Neerukonda Institute Of Technology And Sciences	Voice Control,Bluetooth Control And Gestures Car	Bandaru Bharat Mondi Mehar Manas N Venkatesh B Mohan
10.	Gitam University	Industrial Robotic Arm	B M S ADITYA Bokka Rajesh Siddhartha Venketa Sai Bade
11.	Gitam University	WIFI BASED RFID Doorlock Access System	MANDA SATHWIK D K K Sai Raj Thonda Vaishnavi
12.	Government Polytechnic (Pendurthi)	lot Based Artificial Cpr Device	K A Balaji M. Ramesh P. Naga Jahnavi
13.	Government Polytechnic (Pendurthi)	lot Based Gas Level Detector	P. Jyothi Prakash A.Karthik Varma V. Reshma P. Chandana
14.	GMRIT	Smart Glove for Impaired People	Dasireddi Niraja Adithya D Sarvani Samanvitha B Jahnavi Dola Rakesh





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15.	GMRIT	Braille Keyboard for Blind People	B.Dhanalaxmi
			D.Jagan
			B Jahnavi
			D.Harsha Aditya
16.	GMRIT	Effective counter attendance management using RFID and people's	A.Vandana
			B.Indrani
			A. Uday Kiran
			G. Chandu
17.	Lendi institute of engineering and technology	DUAL AXIS SOLAR TRACKER	M.V.K Sai Harika
			K.Tejaswani
			Ch. Bhanu Prakash
18.	Lendi institute of engineering and technology	Remote control River cleaning bot	Ampavalli Naveen
			B.S. C. Varma
			Chebolu Saikumar
19.	Lendi institute of engineering and technology	Car wheel gesture	Gorla Akhil
			A. Gyan Teja
			A.Rohith
			G.Akhil
20.	Lendi institute of engineering and technology	Gesture control wheel chair	M S Chandra
			Matturty Keerthika
			Karampudi Sharat Kumar
			Koneti Mounika
21.	Lendi Institute Of Engineering And Technology	Saline Level Monitoring And Alert System	PABOLU GAYATHRI
			Kavya Paruchuri
			KOMARA SHYAM KUMAR
22.	Vignan's Institute Of Information Technology	Smart Agriculture And Monitoring System	Koda Sandeep
			Chandra Sheker.O
			Kiran Kumar. S
			Naresh. K
23.	GVPCEW	Self-Defensive Glove For Women Security	Jarugu Gayathri Devi
			Tammineni Alekhy
			Ravuri Lavanya
			Jakkula Naga Sathwika
24.	GVPCE(A)	Voice Controlled Robot	Ch. Navya Deepthi
			E. Sandhya



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			D. Sudhakar
			B. Akhil
25.	GVPCE(A)	The Smart Buoy	J. Pardha Praneeth
			J.Yaswanth
			J.Jahnavi
			J.Devi Ratnamala
26.	GVPCE(A)	Home automation using voice commands and remote control	Naveen Katta
			K.Vamsi Krishna
			K. Abhi Ram
27.	GVPCE(A)	Aurdino based fingerprint doorlock	Pothina Sai Kiroodh Babu
			V.Jayathi
			R.Hema Sree
28.	GVPCE(A)	Smart irrigation system	S. Sofia Joys
			T. Sai Neeraj
			V. Priya Swapnika
			V. T. S. Keerthi Valli
29.	GVPCE(A)	Smart Cradle	Mugada Varaha Ravindranath
			Salapu Jhansi
			Singampalli Hema Priya
			Madabathula Vedavalli
30.	GVPCE(A)	Pings with things	Duppala Hemanth
			Eerelli Pavan Kumar
			D.Pavan Kalyan
			A.Siva Sankar
31.	GVPCE(A)	Foot step power generation	Jyosula Anusha
			Harshini Gondesi
			G Sai Sreenithya
			K. Balaji
32.	GVPCE(A)	Maintenance of large boilers or Silos through drones	Adari Praveen
			B. Naveen Teja
33.	GVPCE(A)	Electricity generation from speed breakers	Charan Devarakonda
			Ch. Sai Meghana
			D. Poojitha



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			B. Mounika
34.	GVPCE(A)	Fish feeding system	Talamala Supriya
			Shaik.Faizunissa
			Velamala Dimple Nikitha
			Palavalasa Murali Krishna
35.	GVPCE(A)	Smart P & R for a car	Praneeth Venkata Sai Manikanta Pentakota
			Bhargavachari Kuppili
			Chaithanya Kumar Reddy Mekala
			Satyanarayana Chintada
36.	GVPCE(A)	Hand Gesture Controlled Robot	Sutari Renuka
			Abhiram Srimantula
			Sheik Mastan Saheb
			Manideep Utti
37.	GVPCE(A)	Rador Using Arduino	K.Naveen
			K.Chetana Akshaya
			G.Sowjanya
			G.Mohan Chandu
38.	GVPCE(A)	Fire Fighting Robot	Bomma Yukthi Sri Raghava
39.	GVPCE(A)	lot Based Smart Car Parking System	Gandivalasa.Anilkumar
			Kota.Damodhar
			Basava Sai Swanuupp
			Banavathu Ramesh
40.	GVPCE(A)	Generating Electricity From Plants	Chitturi Pravallika
			D. Lakshmi Priya
			Y. Aparajitha
			B. Snehitha Sai
41.	GVPCE(A)	Cowarchaic.In	Gullipalli Damodar Rao
			Gurugubelli Sai Karuna
			Koruprolu Guna Sekhar



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			Konda Jyothi Sridevi
42.	GVPCE(A)	Smart Blind Stick Using Arduino	Tappita Harshavardhan
			R.N.V.Ajay
			U.Bhargav sai
			S.Shanmukha sai
43.	GVPCE(A)	Heartrate And Spo2 Monitoring Device	Kanchiboina Dhanya
			Imandi Grace Ankitha
			Kappala Ganga Visweswari
			Kandala Yamani
44.	GVPCE(A)	Surveillance System Using Pir And Ultrasonic Sensor	Reshma Korikana
			G. Purna Chandra
			K. Charan Madhav
			G. Deekshita
45.	GVPCE(A)	Safety Wristband	Balivada Harshitha
			Salihundam Nithin
			Veerelli Sowmya
			Velamala Vamsi
46.	GVPCE(A)	Automatic Gas Leakage Detector	Chappa.Chaitanya
			Dakarapu.Sowjanya
			Chinthada.Sadwika
			Dakarapu.Swathi
47.	GVPCE(A)	Dash Cart	Chinmayee.G
			D.Sai Nikitha
			A.Sai Mounisha
			A. Sri Lasya Priya
48.	GVPCE(A)	Automatic Street Lights With Fault Detection And Correction Model	Rajanala Nanda Sai
			Muggu Sesidhar Kumar
			Raparathi Uday Kiran
			Shaik Saleha
49.	GVPCE(A)	Gps Tracker	Ayyalasomayajula Jagadi Sravya
			J. V. V. L. Sai Saranya
			K. Syam Satvika





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50.	GVPCE(A)	Global Electricity Management Systems	Kappala Neelaveni
			Gunuru Mounika
			Immani Sharoon Pranuthi
			Kotikalapudi Sivaram Bharat
51.	GVPCE(A)	Women safety device using arduino	Padamati Siva Sri Kiran
			Mojjada Sai Likhith
			Mahanthi Manoj Kumar
			Challa Lokesh Naidu
52.	GVPCE(A)	Soil Irrigation through wifi	Ch Ritvik Ratan
			Ch Yashwanth Naidu
			B Sandeep
			A Jeswanth Varma
53.	GVPCE(A)	Room Temperature	V L J Manoj
			Mattaparthi.Mohan Siva Kumar
			P.Aasritha
			Tadiboina Venkata Sai Manoj
54.	GVPCE(A)	SMART STOVE	Linga Reddy Danda
			Gowri Shankar
			D.Naga Sai Krishna
			B. Abhiram
55.	GVPCE(A)	KNOCK SENSOR	Koppiseti Sai Satya Jyothika
			Gudla Vijayalakshmi
			Karri Yamini
56.	GVPCE(A)	DETECTION FRUIT FRESHNESS	Gajula Aravind
			Gandipilli Sandeep
			Gorle Hari Krishna
			Korada Likhita Kalyani
57.	GVPCE(A)	Project Helios Gen2	Jetti Sai Neeraj
			Guntamukkala Narendra
			Kanireddy Naveen



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58.	GVPCE(A)	Object detection	M. Harshit
			M. Sanaket
			M. Srinu
			J. Aloknadh
59.	GVPCE(A)	Real Time alcohol Detection	V. Hyndhan
			J. Harshitha
			K. Pavani
			R. Tejasri
60.	GVPCE(A)	Lifi Data Transfer	D. Sri Purva
			Ashish Kumar Shan
			B. Hari
			A. V Sudhindra Kumar
			M. Sai Ramesh