

GOVERNMENT ENGINEERING COLLEGE

SECTOR-28, GANDHINAGAR-382028



REPORT

EEMOCO-2025 **ELECTRICAL/ELECTRONICS BASED MODEL COMPETITION**

Organized by

Electrical Engineering Department

G.E.C, Gandhinagar

May 5, 2025

A working model competition was organized by Electrical Engineering Department on 3rd May 2025, at Government Engineering College, Sector-28, Gandhinagar. Under the event “**EEMOCO-2025**”, Students of various disciplines participated with great enthusiasm. Each student presented different concept based working models made by their group and were observed and highly appreciated by the head of various departments as well as faculty members from various disciplines.

Total of 26 teams registered in the event, a total of 116 students were selected through the qualifying rounds to participate in the finals. All students were awarded by a participation certificate and the three winner teams were also awarded with a winning certificate. The main objective of doing this event was that the student get start up related encouragement from now on and can go further in that direction and do commendable work.

Flyer of the Event



**GOVERNMENT ENGINEERING COLLEGE,
GANDHINAGAR**

ELECTRICAL ENGINEERING DEPARTMENT

EEMOCO-2025
ELECTRICAL/ELECTRONICS BASED MODEL COMPETITION

Venue:
Electrical Lab, Block-3,
Electrical Department

Date: May 03,2025

Time: 11:00 AM TO 01:00 PM

Event Coordinator
Prof. P. R. BHAVSAR Prof. N. D. PATEL Dr. S. P. AGRAWAL

Dr. Suresh R. Sharda
HOD-Electrical Department

Dr. Sweta P. Dave
Principal, GEC-Gandhinagar

EEMOCO-2025 (PROJECT LIST)

SR NO	NAME OF PROJECT	TEAM MEMBERS	BRANCH
1	PORTABLE LASER DISTANCE METER	PARIHAR AMITSINGH; PATEL JANVI DINESHKUMAR; PATEL HARSHAL HITENDRAKUMAR; PATEL HARSH KANUBHAI; PATEL JENNY JITENDRAKUMAR	EE
2	AUTOMATIC PLANT WATERING SYSTEM	KAUSHAL KHARWAR; DUSHYANT KAVAR; SUHANI KHARADI; HARDIK JAMOD;	EE
3	WATER LEVEL CONTROLLER	PANCHANI DARSHAN; PANDYA UTSAV; NIGAM NARENDRABHAI PATEL; PANDOR SIDHDHARAJ BHUPATBHAI; PANDEY NIKHIL SUNIL	EE
4	ADVANCE SWITCHING TECHNOLOGY	MODHWADIYA PRATAP; CHAUDHARY KHUSHI; KHARADI SUHANI; DARSHAN RAO; NAINUJI DARSHNA	EE
5	ELECTRONIC VOTING MACHINE	ZALA MITRAJSINH ANIRUDDHSINH; VYAS DRASHTI MANOJBHAI; VANSH HEMAL; ;	EE
6	LUX METER	MODHWADIYA PRATAP; NAINUJI DARSHANA; MUNIYA URVASHI; MESARIYA KRISH; MODI RUDRA	EE
7	AUTOMATED LIGHT	SMEET ASARI; ASODIYA LAXANK NARENDRAKUMAR; VRUSHIKA BARAD; KHUSHI CHAUDHARY; MAHESH CHAUDHARY	EE
8	TEMPRETURE AND HUMIDITY SENSOR	PATEL KHUSH VINODKUMAR; PATEL MIT RAJEBDRAKMAR; PATEL MOHIT SURESHKUMAR; PATEL OM GIRISHKUMAR; PATEL SHAN DILIPBHAI	EE
9	LASER SECURITY ALARM SYSTEM	AASTHA TRIVEDI; RAJVEER SOLANKI; ABHI SINDHAV; TRISHA THAKKAR;	EE
10	TEMPRATURE BASED FAN CONTROLLER	PRINCE PITHIYA; AAKASH PRAJAPATI; SUBHASH PRAJAPATI; RAJPUT KARAN; RAJPUT SUJIT	EE
11	DIGITAL MULTIFUNCTION METER USING MICROCONTROLLER	VERMA ANISHKUMAR K.; JAGANI MANAN SANJAY; BANTA KISHAN; KHARA RAHUL; PARTH KAYADA	EE
12	RAYARCADE	ABHIGYAN GAUTAM	CE
13	OBJECT CONTROL CAR	KARAN DAVE; TUSHAR CHALALIYA; SHUBHAM BHUVA; UJAS DARJI; JEMIL CHOVATIYA	CE
14	GESTURE-CONTROLLED ELECTRONIC DEVICES	NAYAN DINESHBHAI PADSALA; OZA MANMAY JAGDISHBHAI; PAREKH SHIVAM VINAYAKBHAI; NAYEE KARAN KAMLESHBHAI; NARANIYA URMILA HITENDEABHAI	CE

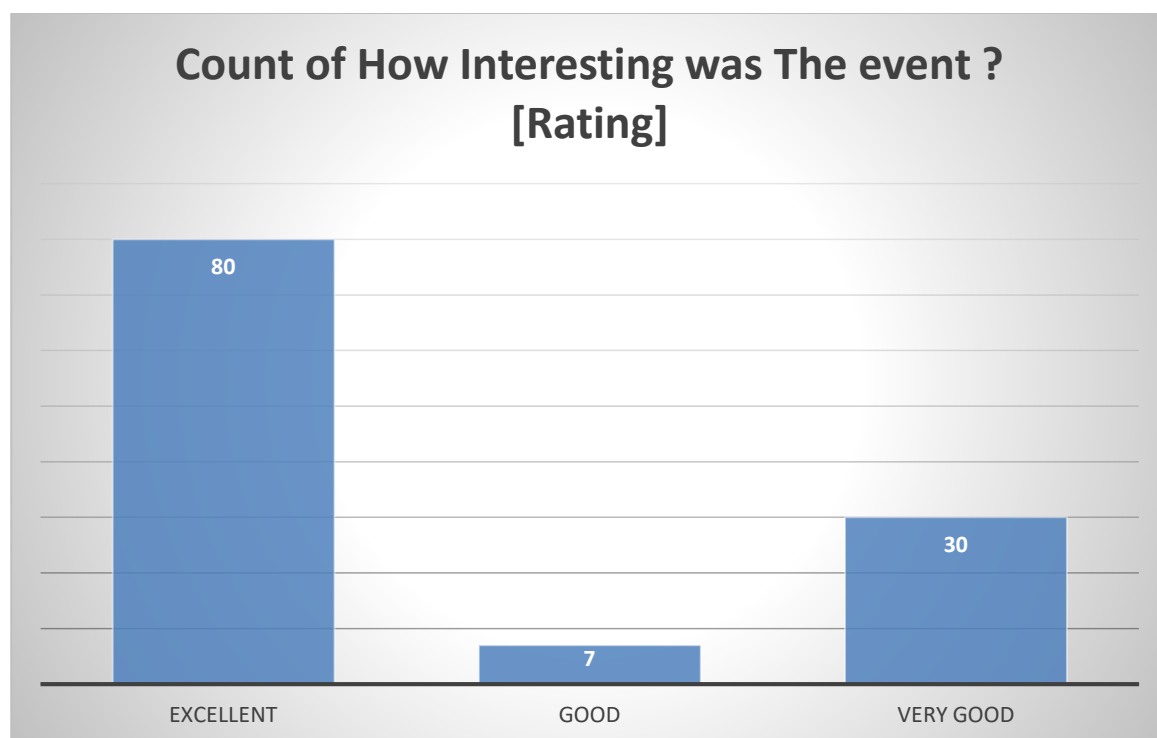
15	AUTOMATIC STAIRCASE LIGHTING FOR SMART HOUSE	PATEL RINKAL RAMESHBHAI; PATEL NISHA DAHYABHAI; PATEL MAITRI RANJIT BHAI; PATEL SUJAL NILESHKUMAR; PATEL MILAP PINTUBHAI	CE
16	SMART LIGHT - ENERGY SAVING CONCEPT	UPADHYAY NISHAD HITESHKUMAR; VALA YASHPAL MAHESHBHAI; VAJA KANABHAI AJANBHAI; RAMANI VAIBHAV ASHOKBHAI; VEDANT MUKESHBHAI THAKAR	CE
17	MOTION DETECT LAMP	PRACHI RAKESH PARMAR; ISHANA ASHVINBHAI PARMAR; LOMIK KAPILBHAI PARMAR; HET PARIMAL PARMAR; JENIL RASIKBHAI PARMAR	CE
18	SMART BLIND STICK	SOLANKI MIRAL ARVINDBHAI; SIHORA JANVI BHARATBHAI; SORATHIYA PALAK SUNILBHAI; SUVAGIYA HEMANSI MAHESHBHAI; SOLANKI RAJVI AMRISHBHAI	CE
19	ANTI SLEEP ALARM FOR DRIVERS	MAINDH HITESH NATHALAL; LAKHANI VIVEK NIKUNJBHAI; KYADA KIRTAN DIPAKBHAI; KHODADA AJAY GULABBHAI; KORAT JENISHA YOGESHKUMAR	CE
20	AUTOBREEZE - TEMPERATURE & MOTION-BASED FAN	KANARA BHARAT; KHACHAR DHARA; KHANDHAR PIYUSH; KHANDLA AJAY; KACHHOT NIRAV	CE
21	SOIL MOISTURE BASED AUTOMATIC WATER IRRIGATION PLANT	CHAUHAN YAKSH PRAHLADSINH; SAVALIYA ADITYA HITESHKUMAR; DABHI SAUMYA JAYESHBHAI; MAKWANA BHAVDIP SURESHBHAI; CHAUDHARY MAHESH DEVJIBHAI	CE
22	PORTABLE SOLAR CHARGER	VORA KRISH JAYSUKHBHAI; VERMA MANAV KAUSHAL; JAVADE VEDANT VISHALBHAI; VASAVA HARSHILKUMAR RAJESHBHAI; VARMA KRITARTH SUBHASH	CE
23	CLAPPING SWITCH CIRCUIT	MEGHANATHI MILAN; BHARDA MEET; MEVADA FENIL; GAVIT MAYANK; MITHAPARA TULASI	CE
24	FIRE FIGHTING ROBOTIC CAR	ROMA NAGESHRI; ADITI MORI; VRAJ MODI; TUSHAR MOJIDAR; RONAK MORVADIA	CE
25	SMART CAR PARKING SYSTEM	PRAJAPATI DASHARATH AMRUTLAL; PRAJAPATI PRANAY CHETANKUMAR; PATIL TUSHAL KISHORBHAI; PATOLIYA NIDHI ARVINDBHAI; PIPALIYA PALAK ALPESHBHAI	CE
26	SMART DOOR LOCK SYSTEM	SHARMA DHRUVKUMAR ALPESHBHAI; SAVALIYA JIGISA MADHURESHBHAI; SHOBHANA PAL VIMALBHAI; SENMA PRITIBEN MAHESHBHAI; FULTARIYA PRIYANSHI NITESHBHAI	CE

FEW CAPTURED VIEWS



FEEDBACK OF THE EVENT BY STUDENT

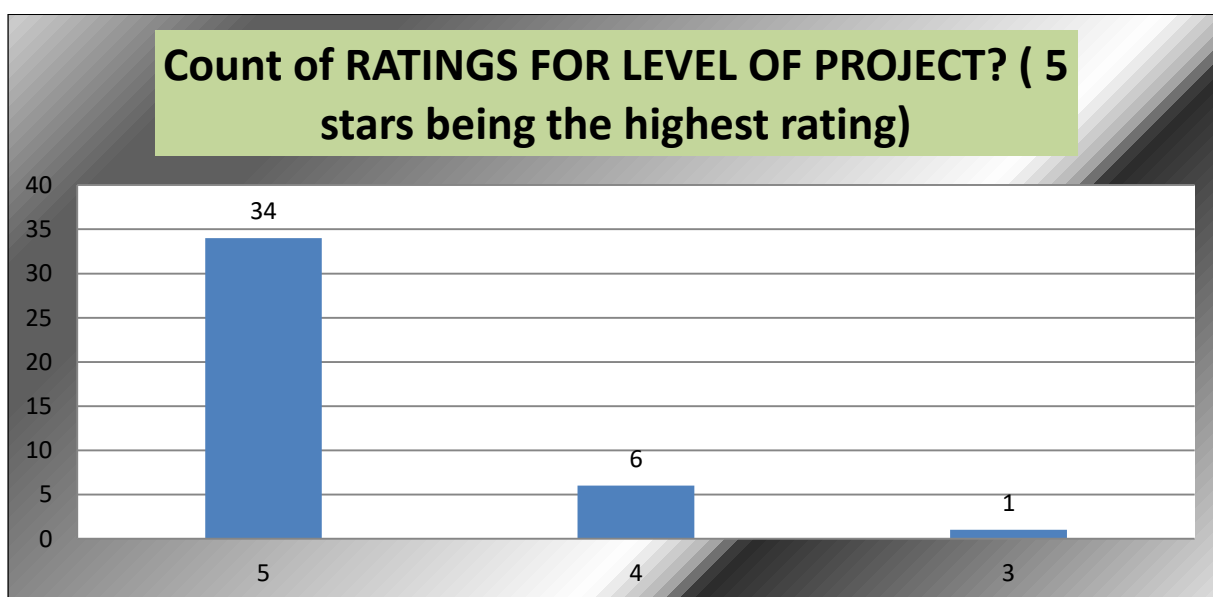
All participants have given the online feedback regarding the event and cooperation from department.(<https://forms.gle/KU4EaoMNKRCSyHFXA>)



FEEDBACK OF THE EVENT BY VISITORS

Feedback of the visitors (faculties and students), which inspire and encourage us for organizing such events in feature and suggest us for improvements. (<https://forms.gle/NSkWij9vWvw6GxHY7>) Few of them are here.

POINT OUT THE GOOD THINGS OF AN EVENT	SUGGESTIONS FOR IMPROVEMENT
1st year students made projects which is extra ordinary achievement.	Participate all branch
Nice arrangements	Carry on
Being the 1st year students..... they have done excellent job	Better theoretical background by students
Management is good	Keep up doing the good work
Organizing a model competition specifically for first-year students allows them to immediately apply the foundational knowledge they are acquiring. This hands-on experience can solidify their understanding of electrical and electronics principles in a tangible way, moving beyond theoretical concepts. By organizing such events, the Electrical Engineering Department is actively contributing to building a culture of innovation within the institute. It sets a precedent for students to engage in practical projects and showcases the importance of hands-on learning across disciplines.	Encourage students to document their projects (e.g., a short write-up, diagrams, videos). This not only helps them solidify their understanding but also creates a record of their work that can be showcased within the department or even on a institute website or social media, further motivating participants. For subsequent editions, consider inviting industry professionals to visit the exhibition. This could provide students with valuable insights into real-world applications of their ideas and potentially open up networking opportunities in the long run.
Working model of all the projects	No suggestion needed
The project selections are good and all the projects are in working condition.	The students should have knowledge about the specifications of the components used in the projects.
Motivation, positive attitude and dedication of students and faculties are worth noting.	Students can take further good projects for start-up.
We can learn how to examine over project in front of people	If contestants win, give a big gift for appreciation



CERTIFICATE FOR THE PARTICIPATION

This is the e-certificate provided to the students for participation in the event.



CERTIFICATE FOR THE WINNER



This is the e-certificate provided to the students who got the 1st, 2nd and 3rd rank

CERTIFICATE FOR THE VOLUNTEER

This is the e-certificate provided to the students for Volunteer in the event.



CONGRATULATION TO THE WINNER

1st
RAYARCADE



ABHIGYAN GAUTAM

2nd
**DIGITAL
MULTIFUNCTION
METER USING
MICROCONTROL
LER**



VERMA ANISHKUMAR.; JAGANI MANAN; BANTA KISHAN; KHARA RAHUL; PARTH KAYADA

3rd
**MOTION
SENSOR
SWITCH**



NAYAN DINESHBHAI PADSALA; OZA MANMAY JAGDISHBHAI; PAREKH SHIVAM
VINAYAKBHAI; NAYEE KARAN KAMLESHBHAI; NARANIYA URMILA HITENDEABHAI

BEHIND THE SCENES

- The event was scheduled for May 3, 2025. Then all the things began for the preparation of the EEMOCO-2025. The flyer was created. Then, as it was being shared by the faculty of electrical engineering department with the students, the registration began on March 26, 2025.

EEMOCO-2025	The total number of registrations: 26 groups.	The total number of participants: 116
Judges	Dr. Sandip Rajput, assistant professor, EC	Dr. Vijay P. Dave, assistant professor, BM
Volunteer	4TH SEM-ELECTRICAL <ul style="list-style-type: none">• KalathiyaMayank Jentibhai (230130109021)• Patel Himrajsinh Mahendrasinh (230130109039)• Shalabh Pandey (230130109060)• Nimavat Pratik Vipulbhai (240133109014)	2ND SEM-ELECTRICAL <ul style="list-style-type: none">• Goswami Ayushgiri Nileshgiri (240130109016)• Rathod Ronak Vakhatsinh (240130109058)

EVENT ORGANIZED BY

Dr. Sweta P. Dave (Principal, GEC-Gandhinagar)

Dr. Suresh R. Sharda (HOD-Electrical Department)

Event Coordinator

Prof. P. R. BHAVSAR Prof. N. D. PATEL Dr. S. P. AGRAWAL