



## Best Practice-2:

### 1) Title of the Practice

**“Amrut Expo- Institute Level Project Competition”**

### 2) Objectives of the Practice

- Increase interaction with industry experts, alumni upgrading technical knowledge, recent trends in industry.
- Demonstrate project development, teamwork, presentation-communication skills, and competitiveness.

### 3) The Context

Practical skills, soft skills are important component for any engineering professionals that are developed during practical sessions, mini-major project work. Project competition provides platform for showcasing student’s technical, soft skills.

**4) The Practice:** Amrut-Expo is exhibition of projects developed by BE students that innovative, society need based rural projects. After selection of project idea is demonstrated to alumni, industry experts and suggestions by them are incorporated. Students interact with judges, alumni and industrial experts. Three projects per department are awarded with cash prizes.

### 5) Evidence of Success:

- Students participated in State, National and International level competitions.
- Seventeen patents and two copyrights are filed, published project related work in National/International Conferences and Journals.
- Students got recruitment in reputed MNCs and industries with higher package based on project work.

### 6) Problems Encountered and Resources Required

The initial phases of the projects should be assessed properly so as to make projects ready. Time management of industrial experts is also critical aspect for success of this scheme.

### 7) Notes:

The alumni can be called for the assessment of the projects so as to strengthen the alumni interactions and students also gets industrial expert’s opinion.

## **Best Practice 2 : Amrut-Expo: Providing platform to UG students to present their Project in front of industry persons and Junior college/School students**

AmrutExpo-Project Exhibition held on 28/4/2023 and 29/4/2023. The exhibition provided platform for final year UG students to present their projects. The First Year to third year UG students along with 12<sup>th</sup> science students of nearby junior colleges were present in this exhibition. The projects evaluation done by industry experts of individual branch.



Amrut-Expo Inauguration



Dignities are visiting the project Expo.



Students are visiting Project Expo.



**Experts asking questions to participants.**





GPS Map Camera

Ghulewadi, Maharashtra, India  
J57M+VR3, Ghulewadi, Maharashtra 422608, India  
Lat 19.614488°  
Long 74.18447°  
28/04/23 12:11 PM GMT +05:30

**Students are demonstrating the projects to Experts.**



Prize Distribution by Dignities.


# **AmrutExpo-2023**

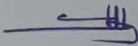
Amrutvahini College of Engineering, Sangamner  
Department of Electrical Engineering

Project Competition

AmrutExpo 2023

Project No	Project Name	Project Members	Award
12	Multirole Unmanned Aerial Quad copter	Deshpande Darshan Prakash Jamadade Ranjit Mahadeo Shelke Siddhi Kailas Wani Prathamesh Shivaji	First
13	IOT Based Smart Meter and Cost Monitoring System For EV Charging Station	Dagale Parashram Ashok Mandlik Nikita Sampat Pathare Gaurav Ramesh Puri Onkar Madhav	Second
22	Smart Wheelchair Using Artificial Intelligence Includes Voice Command and Gesture Control	Avhad Tejas Ravindra Kadlag Shreyas Bhausaheb Kale Rohini Kisan Rahane Tejal Balasaheb	Third

  
**Prof.J.R.Rokde**  
Project Coordinator

  
**Dr.S.S.Kadlag**  
HOD  
HEAD OF THE DEPARTMENT  
ELECTRICAL ENGINEERING  
AMRUTVAHINI COLLEGE OF ENGINEERING  
SANGAMNER - 422608



Project Competition

Gr.No	Title of Project	Name of Group Leader	Concept (10)	Applicability (10)	Design of Model/ Algorithm (10)	Presentation (10)	Question and Answer (10)	Total	Remark
1	Smart Energy Management and Overload control of hostel rooms using IOT	Vikas Gathkhane	5	4	6	6	6	27	
2	Monitoring and Providing Charging Service on a Road Electrical Vehicle by Using IOT and Mobility Van	Abhishek Dagadu Thorad	5	4	6	4	4	23	
3	Advanced and Optimization of Solar Water Pump	Prashant Pandurang Wadkhane	7	7	7	8	6	35	
4	An Automatic Driver's Drowsiness Alert System	Kaushik Jadhav	7	4	6	5	6	28	
5	Up gradation of UPS System of AVCOE Using Various Sensors	Nehe Karthik	5	5	6	7	6	29	
6	GSM Based Transformer Health Care Monitoring With Overload Alert and Protection	Gradhe Pratiksha Shivaji	8	6	5	6	5	30	
7	Smart Parking Using RF-ID Card For College	Bhasat Patmar	7	7	5	6	5	30	

*(Signature)*

Mr. Brian Bhandari  
Name and Sign of Expert

*(Signature)*  
Shubhada. Vaidya  
Name and Sign of Expert

*(Signature)*  
Mr. Mangesh Bapat  
Name and Sign of Expert



# AMRUTVAHINI COLLEGE OF ENGINEERING, SANGAMNER.

Department of Electrical Engineering

AmrutExpo - 2023

## Project Competition

Gr.No	Title of Project	Name of Group Leader	Concept (10)	Applicability (10)	Design of Model/ Algorithm(10)	Presentation (10)	Question and Answer (10)	Total	Remark
8	Defense Security System With Ant bombing Technology Using LASER Gun	Vaibhav Dilip Bhandari	5	5	4	5	5	24	
9	Detection of False-reading Attacks In Smart Grid Net-Metering System	Dighe Atul	2	2	2	3	4	13	
10	Wireless Voice Operated Smart Elevator Control System	Wakchaurre Rutuja	7	7	8	7	4	33	
11	Remote Monitoring and Controlling of Electrical Devices For Industrial Applications	Jondhale Yogesh	4	2	4	3	4	17	
12	Multirole Unmanned Aerial Quad copter	Darshan Deshpande	7	7	8	8	7	37	①
13	IOT Based Smart Meter and Cost Monitoring System For EV Charging Station	Onkare Puri	7	7	7	8	8	37	②
14	Design and Development of a Robot Based System for a Precision Farming	Shuraj Wankar	5	7	4	5	5	26	

Mr. Mangesh Bapat  
Name and Sign of Expert

Mr. Kiran Bhandari  
Name and Sign of Expert

Shubhada Vaidya  
Name and Sign of Expert

# AMRUTVAHINI COLLEGE OF ENGINEERING SANGAMNER.

Department of Electrical Engineering

AmrutExpo - 2023

## Project Competition


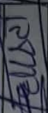

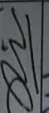
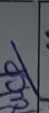
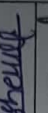

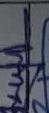



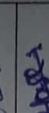
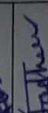
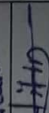
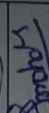
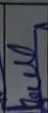

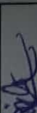

Gr.No	Title of Project	Name of Group Leader	Concept (10)	Applicability (10)	Design of Model/ Algorithm (10)	Presentation (10)	Question and Answer (10)	Total	Remark
15	Intelligent Traffic Safety Measures by Speed Checking of Vehicle on Highway Near To School Zone With Over Speed Alert and Control	Kotkar Vajjayanti	5	5	4	5	6	25	
16	Smart Wireless Battery Charging of Electrical Vehicle With Charge Monitor	Choume Mayani	5	4	4	5	4	22	
17	IOT Based Flood Monitoring and Alert System	Nanakishor Kadnar.	3	5	5	4	4	21	
18	Solar Operated Battery Management System Using IOT	Pande Aniket	3	5	4	5	4	21	
19	Smart I Robot for Healthcare System By Using SW Framework	Dnyaneshwar Kshirsagar	5	5	5	6	5	26	
20	Solar Based Machine For Management of Plastic Waste	Guarde Sanket	5	5	5	6	5	26	
21	Control and Monitoring of Electrical Vehicle and Motor	Akshay Phapate	5	4	5	5	6	25	
22	Smart Wheelchair Using Artificial Intelligence Includes Voice Command and Gesture Control	Kadlag Shreyas Bhauasaheb	4	7	6	7	8	35	3

Mr. Mangesh Bapat  
Name and Sign of Expert

Mr. Kiran Bhandari  
Name and Sign of Expert

Shubha Vaidya  
Name and Sign of Expert

Registration

Sr. No	Group No	Roll No	Name of Student	Project Guide	Project Title	Sign
1	1	03	Avhad Sanket Suresh	Prof.A.A.Pathare	Smart Energy Management and Overload control of hostel rooms using IOT	
		18	Gatkane Vikas Harishchand			
		33	Kakad Srushti Balu			
		35	Kanawade Rasika Rajhans			
2	2	11	Deshmukh Gaurav Dhananjay	Dr.K.V.Bhadane	Monitoring and Providing Charging Service on a Road Electrical Vehicle by Using IOT and Mobility Van	
		14	Dethe Yukta Pradip			
		67	Shelke Saurav Baban			
		76	Thorat Abhishek Dagadu			
3	3	37	Khadangale Ankush Navnath	Dr.K.V.Bhadane	Advanced and Optimization of Solar Water Pump	
		72	Shirsat Tushar Dnyaneshwar			
		77	Thorat Shweta Raosaheb			
		82	Wandhekar Prashant Pandur			
4	4	23	Hase Pravara Shantaram	Prof.J.R.Rokde	An Automatic Driver's Drowsiness Alert System	
		24	Hase Vaishnavi Kalidas			
		26	Jadhav Krushna Rajendra			
		29	Jondhale Nitin Madhav			
5	5	47	Mohalkar Pallavi Sawata	Prof.S.J.Aher	Up gradation of UPS System of AVCOE Using Various Sensors	
		51	Nehe Kartik Bharat			
		63	Sahane Amit Vijay			
		64	Sahane Amita Vijay			

Prof. J.R.Rokde  
Project Coordinator



Date: 28<sup>th</sup> & 29<sup>th</sup> April 2023

## Registration

## Department of Electrical Engineering

Department of Electrical Engineering			Department of Electrical Engineering		Sign
Sr. No	Group No	Roll No	Name of Student	Project Guide	
6	6	06	Chavan Gayatri Somnath	Prof.S.J.Aher	G. S. Aher
		10	Deokar Priti Subhash		
		16	Gadhe Pratiksha Shivaji		
		65	Satpute Punam Ganesh		
7	7	36	Kashid Prathamesh Bhagwan	Prof.T.R.Bhanegaonkar	T. R. Bhanegaonkar
		45	Magar Tejas Kailas		
		48	Mokashi Yadynesh Rajendra		
		53	Parmar Bharat Kiran		
8	8	01	Abhale Vaibhav Rajendra	Prof.Y.U.Kakad	Y. U. Kakad
		02	Avhad Arpita Vinayak		
		05	Bhaldand Vaibhav Dilip		
		71	Shinde Nikita Sunil		
9	9	15	Dighe Atul Gorakshnath	Prof.A.A.Pathare	A. A. Pathare
		25	Ilag Sagar Balu		
		42	Kulkarni Swarali Dinkar		
		56	Pawase Apeksha Anil		
10	10	44	Kuvar Vaishnavi Vilas	Dr.S.S.Kadlag	S. S. Kadlag
		60	Rahane Kanchan Babasaheb		
		79	Vidhate Priyanka Ramesh		
		80	Wackchaure Rutuja Balasah		

Prof. J.R.Rokde

Project Coordinator

Department of Electrical Engineering

Dr.S.S.Kadlag

Head of Department

Department of Electrical Engineering

ELECTRICAL ENGINEERING

AMRUTVAHINI COLLEGE OF ENGINEERING

SANGAMNER - 422608

Registration

Sr. No	Group No	Roll No	Name of Student	Project Guide	Project Title	Sign
11	11	30	Jondhale Yogesh Machhindra	Prof. Vijaykumar	Remote Monitoring and Controlling of Electrical Devices For Industrial Applications	
		58	Phasale Yogesh Chhaburao			
		74	Sodnar Kishor Ramesh			
		75	Tambe Vaibhav Shashikant			
12	12	13	Deshpande Darshan Prakash	Dr. S.S. Kadlag	Multirole Unmanned Aerial Quad copter	
		28	Jamadade Ranjit Mahadeo			
		68	Shelke Siddhi Kailas			
		83	Wani Prathamesh Shivaji			
13	13	09	Dagale Parashram Ashok	Prof. S.M. Ingle	IOT Based Smart Meter and Cost Monitoring System For EV Charging Station	
		46	Mandlik Nikita Sampat			
		54	Pathare Gaurav Ramesh			
		59	Puri Onkar Madhav			
14	14	19	Ghule Sakshi Balasaheb	Prof. M.S. Gadakh	Design and Development of a Robot Based System for a Precision Farming	
		84	Warke Dhiraj Shailesh			
		85	Zanzurne Radhika Bhaurav			
		86	Zope Dipesh Sudhir			
15	15	40	Kotkar Vijayanti Bhausaheb	Prof. M.S. Gadakh	Intelligent Traffic Safety Measures by Speed Checking of Vehicle on Highway Near To School Zone With Over Speed Alert and Control	
		61	Rahane Rohan Ajit			
		66	Sayyad Vaseem Afsar			
		87	Wayal Mahesh Baburao			

Prof. J.R. Rokde

Project Coordinator

Department of Electrical Engineering

Dr. S.S. Kadlag

Head of Department

Department of Electrical Engineering

HEAD OF THE DEPARTMENT

ELECTRICAL ENGINEERING

AMRUTVAHINI COLLEGE OF ENGINEERING

SANGAMNER - 422608



Registration

Sr. No	Group No	Roll No	Name of Student	Project Guide	Project Title	Sign
16	16	4108	Choure Mayuri Arun	Dr.S.S.Kadlag	Smart Wireless Battery Charging of Electrical Vehicle With Charge Monitor	
		4117	Gaikwad Kaveri Kailas			
		4139	Kolkar Ankita Aniruddha			
		4155	Pawar Smita Baliram			
17	17	12	Gosavi Aniket Ashok	Prof. Vijaykumar	IOT Based Flood Monitoring and Alert System	
		27	Jadhav Omkar Tukaram			
		32	Kadnar Nandkishor			
18	18	4120	Gomase Rupali Baburao	Prof.A.S.Pande	Solar Operated Battery Management System Using IOT	
		4138	Khemnar Vaishnavi Popat			
		4150	Nagare Rutuja Balasaheb			
		4152	Pande Aniket Prakash			
19	19	4112	Deshmukh Neha Shantaram	Prof.A.A.Pathare	Smart I Robot for Healthcare System By Using SW Framework	
		4141	Kshirsagar Dnyaneshwar			
		4149	Motirale Harshali Ravindra			
		4181	Wadekar Shriraj Ganesh			
20	20	4107	Chavan Kartik Dilip	Prof.A.S.Pande	Solar Based Machine For Management of Plastic Waste	
		4121	Gorde Sanket Kailas			
		4143	Kute Sachin Bhaupatil			
		4170	Shinde Harshal Ramnath			


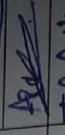
Prof. J.R.Rokde  
Project Coordinator  
Department of Electrical Engineering


  
Dr.S.S.Kadlag  
Head of Department  
Department of Electrical Engineering  
AMRUTVAHINI COLLEGE OF ENGINEERING  
SANGAMNER - 422608



Date: 28<sup>th</sup> & 29<sup>th</sup> April 2023

## Registration

Sr. No	Group No	Roll No	Name of Student	Project Guide	Project Title	Sign
21	21	57	Phapale Akshay Baban	Dr.S.S.Kadlag	Control and Monitoring of Electrical Vehicle and Motor	
		65	Shembade Shrikrushna			
		73	Sinare Rohan Anil			
		78	Udar Ashutosh Pramod			
22	22	04	Avhad Tejas Ravindra	Prof.A.K.Pathak	Smart Wheelchair Using Artificial Intelligence Includes Voice Command and Gesture Control	
		31	Kadlag Shreyas Bhausaheb			
		34	Kale Rohini Kisan			
		62	Rahane Tejal Balasaheb			

  
 Prof. J.R.Rokde

Project Coordinator

Department of Electrical Engineering

  
 Dr.S.S.Kadlag

Head of Department

Department of Electrical Engineering

 HEAD OF THE DEPARTMENT  
 ELECTRICAL ENGINEERING  
 AMRUTVAHINI COLLEGE OF ENGINEERING  
 SANGAMNER - 422608

Amrutvahini College of Engineering, Sangamner  
Amrut Expo- Project Exhibition (28 -29 April 2023)

FEEDBACK FORM

project no-20

Name of Student: Narode Shubhangi Babarabeb

College Name: Arts, Science, commerce college, Kothuri

Email Id:

Mobile Number:

9 8 8 1 6 2 4 2 0 0

1. How did you know about this exhibition?

- ☒ a) Social media ☒ b) College newsletter ☐ c) Word of mouth ☐ d) Other (please specify)

2. What motivated you to attend this exhibition?

- ☐ a) Personal interest ☐ b) Curiosity ☒ c) Requirement for a course ☐ d) Other (please specify)

3. What was your overall impression of the exhibition?

- ☐ a) Excellent ☒ b) Good ☐ c) Average ☐ d) Poor

4. How would you rate Quality of projects?

- ☒ a) Excellent ☐ b) Good ☐ c) Average ☐ d) Poor

5. How would you rate Presentation of projects?

- ☐ a) Excellent ☐ b) Good ☒ c) Average ☐ d) Poor

6. How would you rate Organization of the event and the hospitality offered by college?

- ☐ a) Excellent ☒ b) Good ☐ c) Average ☐ d) Poor

7. Did you find the exhibition informative and educational?

- ☒ a) Yes ☐ b) No ☐ c) Somewhat

8. Have you learn any Technical Knowledge/ Information from project exhibition

- ☒ a) Yes ☐ b) No ☐ c) Somewhat

9. How would you rate Amrutvahini College of Engineering Campus

- ☒ a) Excellent ☐ b) Good ☐ c) Average

10. Would you like to suggest your juniors to visit exhibition next year?

- ☒ a) Yes ☐ b) No ☐ c) Somewhat

11. Any other comments or suggestions?

It's really good experiment

Signature

Amrutvahini College of Engineering, Sangamner  
Amrut Expo- Project Exhibition (28 -29 April 2023)

FEEDBACK FORM

Project no-20

Name of Student: Pooja Sakshi Samrat.

College Name: B. A. Shinde Rahimpur

Email Id:

Mobile Number:

9	3	2	2	4	5	2	6	3	9
---	---	---	---	---	---	---	---	---	---

1. How did you know about this exhibition?

- ☒ a) Social media ☒ b) College newsletter ☐ c) Word of mouth ☐ d) Other (please specify)

2. What motivated you to attend this exhibition?

- ☐ a) Personal interest ☐ b) Curiosity ☒ c) Requirement for a course ☐ d) Other (please specify)

3. What was your overall impression of the exhibition?

- ☐ a) Excellent ☒ b) Good ☐ c) Average ☐ d) Poor

4. How would you rate Quality of projects?

- ☐ a) Excellent ☒ b) Good ☐ c) Average ☐ d) Poor

5. How would you rate Presentation of projects?

- ☐ a) Excellent ☒ b) Good ☐ c) Average ☐ d) Poor

6. How would you rate Organization of the event and the hospitality offered by college?

- ☐ a) Excellent ☒ b) Good ☐ c) Average ☐ d) Poor

7. Did you find the exhibition informative and educational?

- ☒ a) Yes ☐ b) No ☐ c) Somewhat

8. Have you learn any Technical Knowledge/ Information from project exhibition

- ☒ a) Yes ☐ b) No ☐ c) Somewhat

9. How would you rate Amrutvahini College of Engineering Campus

- ☐ a) Excellent ☒ b) Good ☐ c) Average

10. Would you like to suggest your juniors to visit exhibition next year?

- ☒ a) Yes ☐ b) No ☐ c) Somewhat

11. Any other comments or suggestions?

good-

Signature





Amrutvahini College of Engineering, Sangamner  
Amrut Expo- Project Exhibition (28 -29 April 2023)

FEEDBACK FORM

Name of Student: Hase Vaighnavi Kalidas

College Name: Amrutvahini college of engineering Sangamner

Email Id: vaighnavihase@505@gmail.com

Mobile Number:

8	7	6	7	9	4	0	6	8	2
---	---	---	---	---	---	---	---	---	---

1. How did you know about this exhibition?

- a) Social media ☒ b) College newsletter ☒ c) Word of mouth ☐ d) Other (please specify) ☐

2. What motivated you to attend this exhibition?

- a) Personal interest ☐ b) Curiosity ☒ c) Requirement for a course ☐ d) Other (please specify) ☐

3. What was your overall impression of the exhibition?

- a) Excellent ☐ b) Good ☒ c) Average ☐ d) Poor ☐

4. How would you rate Quality of projects?

- a) Excellent ☐ b) Good ☒ c) Average ☐ d) Poor ☐

5. How would you rate Presentation of projects?

- ☒ a) Excellent ☒ b) Good ☐ c) Average ☐ d) Poor ☐

6. How would you rate Organization of the event and the hospitality offered by college?

- a) Excellent ☐ b) Good ☐ c) Average ☒ d) Poor ☐

7. Did you find the exhibition informative and educational?

- ☒ a) Yes ☐ b) No ☐ c) Somewhat ☐

8. Have you learn any Technical Knowledge/ Information from project exhibition

- ☒ a) Yes ☐ b) No ☐ c) Somewhat ☐

9. How would you rate Amrutvahini College of Engineering Campus

- a) Excellent ☐ b) Good ☒ c) Average ☐

10. Would you like to suggest your juniors to visit exhibition next year?

- ☒ a) Yes ☐ b) No ☐ c) Somewhat ☐

11. Any other comments or suggestions?

Hase  
Signature

Amrutvahini College of Engineering, Sangamner  
**Amrut Expo- Project Exhibition (28 -29 April 2023)**  
**FEEDBACK FORM**

Name of Student: Hare Pravara Shantaram

College Name: AVCOE

Email Id: pravarahareog@gmail.com

Mobile Number:

9	5	7	9	0	5	8	4	6	6
---	---	---	---	---	---	---	---	---	---

1. How did you know about this exhibition?  
a) Social media    ☒ b) College newsletter    c) Word of mouth    d) Other (please specify)
2. What motivated you to attend this exhibition?  
a) Personal interest    ☒ b) Curiosity    c) Requirement for a course    d) Other (please specify)
3. What was your overall impression of the exhibition?  
a) Excellent    ☒ b) Good    c) Average    d) Poor
4. How would you rate Quality of projects?  
a) Excellent    ☒ b) Good    c) Average    d) Poor
5. How would you rate Presentation of projects?  
☒ a) Excellent    b) Good    c) Average    d) Poor
6. How would you rate Organization of the event and the hospitality offered by college?  
a) Excellent    b) Good    ☒ c) Average    d) Poor
7. Did you find the exhibition informative and educational?  
a) Yes    b) No    ☒ c) Somewhat
8. Have you learn any Technical Knowledge/ Information from project exhibition  
a) Yes    b) No    ☒ c) Somewhat
9. How would you rate Amrutvahini College of Engineering Campus  
a) Excellent    ☒ b) Good    c) Average
10. Would you like to suggest your juniors to visit exhibition next year?  
☒ a) Yes    b) No    c) Somewhat
11. Any other comments or suggestions?

No seating arrangement, for project groups

Hare  
Signature