

SARVAJANIK EDUCATION SOCIETY

SARVAJANIK COLLEGE OF ENGINEERING & TECHNOLOGY

SUTEX ELECTRICAL ENGINEERING FACULTY

REPORT OF PROJECT SHOWCASE MARCH – 2019

Objective: - The main objective of the “Project Showcase” is to provide all UG students to exhibit their team project work during the year either through the working project and poster presentation.

- **Date:** - 25th March, 2019
- **Place:-** Electrical Engineering Department, SCET, Surat
- **College:-** Sarvajanik College of Engineering & Technology, Surat
- **Outline of the event:** -The Project Showcase is to bring current engineering students and industry experts together to discuss student research and current scenario in industries & outside world. Moreover, it provides a great platform for the students to show their creativity, innovation, & skills. The outcome of this project showcase is to motivate & encourage engineers for better future prospective.

➤ Schedule:

Sarvajanik College of Engineering & Technology SUTEX Electrical Engineering Department Project Showcase Schedule		
Timing	Event	Venue
10:00 AM - 12:30 PM	Project Showcase	1. Power Electronics Laboratory, First Floor 2. Electrical Machine Lab Ground Floor
12:30 PM - 01:30 PM	Lunch Break	
01:30 PM - 03:30 PM	Project Showcase	1. Power Electronics Laboratory, First Floor 2. Electrical Machine Lab Ground Floor

➤ Expert Panel (Review Project): -

Sarvajanik College of Engineering & Technology Department of Electrical Engineering				
Invited Juries for Project Showcase				
Sr No	Name of Guest	Organization	Category	Contact
1	Shri U. K. Jethwa	Retired Sr. Vice President, Reliance Industries, Navi Mumbai	Industrialist	<u>Ukjethwa2007@gmail.com</u> (7021807398)
2	Prof. J. J. Patel	Associate Professors, SVNIT, Surat	Academician	<u>jjp@eed.svnit.ac.in</u> (9825964665)
3	Shri P. D. Munshi	Ex SCET Ex Torrent Power, Surat	Academician /Industrialist	<u>Munshi_pradeep@yahoo.com</u> (9979376518)
4	Mr.Tejas M. Patel	Tech Sun Bio, Surat	Industrialist	<u>tejaspatel@techsunbio.com</u> (8320752684)

- Electrical(Shift I)
- Total Number of Teams Participated - 15

Sr. No.	Name	Enrollment No.	Group No.	Project Title and ID as per PMMS
1	BHAVIK SOLANKI	150420109060	1	Pollution monitoring (8565)
2	SINGH ASHISHKUMAR S.	150420109059		
3	PATEL ADITYA AMRISHBHAI	150420109002		
4	PATEL SMEET BHUPENDRABHAI	150420109051		
5	MODI SUNNY RAJESHKUMAR	150420109036		
6	PATIL PARTH SHASHIAKNT	150420109053	2	Maximum Power Point Tracking Algorithm for Photovoltaic Systems under Partial Shaded Conditions (10538)
7	VAIWALA RAHUL JIGNESH	150420109063		
8	UPADHYAY HEMANGINI C.	150420109027		
9	MEGHA D. AHUJA	150420109004		
10	DHARMIK P. RATHOD	150420109019		
11	PATEL SAURAV Y.	150420109050	3	Shunt Active Power Filter (9168)
12	SHAH HETASVI K.	150420109057		
13	CHITRODA RUTVIJ A.	150420109003		
14	LUNAGARIYA KINJAL C.	150420109005		
15	SINGH SATYAM K.	150420109013		
16	GANDHI PARIM	150420109023	4	Hybrid System (10353)
17	JARIWALA KARTIK	150420109028		
18	PATEL PARTH	150420109043		
19	RAMANI SENIL	150420109054		
20	VAGHANI MAHEK	150420109062		
21	GANGDAWALA TANVI P.	150420109024	5	Power electronic base control of renewable energy sources for electrical energy generation (7995)
22	GHEEWALA TWINKLE S.	150420109025		
23	MODI FORAM R.	150420109035		
24	PATEL BINJAL H.	150420109044		
25	PATEL JYOTI C.	150420109047		
26	ABHEY KUMAR	150420109001	6	Smart shopping using embedded system (20324)
27	CHAUHAN BHAVIK	150420109013		
28	DESAI DENISH	150420109016		
29	DOBARIYA PIYUSH	150420109021		
30	GUPTA PANKAJ	150420109039		
31	DAVE KARAM	150420109015	7	Static voltage stabilizer using PI controller (12679)
32	DESAI RUTVI	150420109018		
33	MALAM MO. SAIF	150420109034		
34	MEHTA MOHIT	150420109037		
35	NATALI AENAL	150420109038		
36	AKASH RUPAWALALA	150420109005		
37	LAD HENIL H.	150420109033	8	Implementation of Vertical Axis Wind Turbine In Urban Area (13401)
38	PATEL BRIJESH G.	150420109045		
39	PATEL JAY M.	150420109046		
40	PATEL RONAK U.	150420109049		

41	SHAH SURAJ C.	150420109061		
42	KATARIYA SAGAR	150420109031	9	Automatic Power Factor correction (10351)
43	KHANVANSHI PARTH	150420109042		
44	RANA KRUNAL	150420109055		
45	PARMAR NEEKET	150420109041		
46	PATEL DHRUVIN	150420109020		
47	MITHAIWALA RUSHI M.	160423109007	10	SOLAR WATER PUMP CONTROL WITH FOUR DIFFERENT TIME SLOTS (14718)
48	PATEL JAYDEV K.	160423109011		
49	SADHWANI SURAJKUMAR K.	160423109012		
50	UPADHYAY PANKAJ J.	160423109014		
51	NISHAD SONAM L.	160423109008	11	A current sensorless mppt algorithm for grid connected pv system using micro inverter (28445)
52	AFFAN F. PATEL	150420109003		
53	SHIVANI D. BODARA	150420109007		
54	ELIZA SADADIWALA	150420109022		
55	SHIKH MO. MAAZ A.	150420109058		
56	ANSARI MO. ASHIF S.	160423109001	12	Design and control of PV with different load condition in island mode of operation (14074)
57	CHAMPANERIA ROHAN R.	150420109008		
58	GONDALIYA KISHAN D.	150420109026		
59	TEJAS V. KAMANI	150420109029		
60	KANSARA PRUTHVI	150420109030		
61	PANSURIYA BHAUTIK	150420109040	13	IOT base Grid Monitoring and protection system (13786)
62	CHAUDHARI BHARGAVI N.	150420109009		
63	CHAUDHARI RUJAL A.	150420109011		
64	PATEL KINJAL R.	150420109048		
65	MEHTA ROHAN K.	160423109006		
66	PARNERIA ABHISHEK R.	160423109009	14	3 Phase v/f control of I.M with PWM techqnics drive (8733)
67	KHANT DIPAKBHAI S.	150420109032		
68	PATEL VIKEN J.	150420109052		
69	SANCHANIYA DIVYESH R.	150420109056		
70	PATEL DIVYANSHI	160423109010		
71	NARAYAN SIDHANT	140420109070	15	Field oriented control of induction motor (13400)
72	PATEL ANUJ R.	140420109043		
73	CHAUDHRI AKASH D.	140420109002		
74	CHAUDHRI JAYNIL G.	120420109056		
75	BHATT MALAY V.	150420109006		
76	CHAUDHARI RIYA S.	150420109010		
77	BOSMIYA TUSHAR	140420109013		

➤ Electrical(Shift II)

➤ Total Number of Teams Participated - 14

Group No.	Sr. No.	Name	Enrollment No.	Project Title & Project ID as per PMMS
1	1	VIPUL RAJPUROHIT	150420109540	Analysis and implementation of various pwm methods for the speed control of 3-phase induction motor
	2	SMRITI SETHIA	150420109552	
	3	MANAN PRAJAPATI	160423109511	
	4	VATSAL SAFARI	160423109513	
	5	ROMI SHAH	160423109514	
2	6	KRISHNA DHEKAR	150420109509	A comparative study of speed control method for induction motor
	7	KUNAL D. PATEL	150420109519	
	8	JATIN MANGHANI	150420109524	
	9	NIKHIL MISTRY	150420109528	
	10	SMIT PATEL	150420109536	
3	11	JIL GANDHI	150420109510	speed control of BLDC motor
	12	HIRAL GONDALIYA	150420109511	
	13	KUNJAN RASHMIYA	150420109541	
	14	SAGAR RUDRA	150420109544	
	15	NAZNEEN MEMON	150420109525	
4	16	VISHAKHA DABHOLKAR	150420109505	Transformer protection using multifunctional relay
	17	KOMAL RAJGHADIA	150420109518	
	18	KOMAL SETHIA	150420109548	
	19	SALONI SONI	150420109553	
	20	PATEL SANKETKUMAR	140420109537	
5	21	DARSHIL PARMAR	150420109506	Voltage flickering compensation using STATCOM
	22	MAHIMA GANDHI	160423109503	
	23	SHIVANI LANGALIYA	160423109506	
	24	VIRAL MODI	160423109507	
	25	SURAJ RANA	160423109512	
6	26	ANUSHI TRIPATHI	150420109501	Simulation and implementation of cascade H- bridge multi-level inverter using induction motor
	27	AANCHAL JAIN	150420109515	
	28	SALONI MAHESHWARI	150420109521	
	29	VIKAS PATEL	160423109510	
	30	HEMANGINEE VASAVA	150420109558	
7	31	JAYDIP BHALIYA	150420109502	Comparative analysis of MPPT techniques for PV applications
	32	KUNAL CHAVDA	150420109504	
	33	RAHUL GUPTA	150420109514	
	34	MAHARSHI PAREKH	150420109529	
	35	SHIVAM VYAS	150420109550	
8	36	SANDEEP RUDRA	150420109545	Fault analysis on transmission line with auto-reset on temporary fault or else trip in permanent fault
	37	PARTH SINGAPURI	150420109551	
	38	RUSHVIK PATEL	150420109535	
	39	ABHISHEK RATHOD	150420109542	
	40	NISHANT PATEL	150420109533	

9	41	NIMIT KUNALIA	150420109520	Soft starter for induction motor
	42	KRUNAL PATEL	150420109530	
	43	MESHVA PATEL	150420109531	
	44	NIDHI PATEL	150420109532	
	45	UMANG SHAH	150420109549	
10	46	KISHAN DHADHUK	150420109508	Modelling and analysis of generator protection
	47	NIKESH GONDALIYA	150420109512	
	48	RAKESH MEPANI	150420109526	
	49	KHUSHROO MIRZA	150420109527	
	50	PREMANAND HIRE	160423109505	
11	51	DEEP PATEL	150420109507	Condition monitoring of induction motor using signal processing method
	52	BHARGAV KADAM	150420109516	
	53	YATRI PATEL	150420109537	
	54	NIDHI VAIDYA	150420109557	
	55	FENIL CHARKHAWALA	150420109503	
12	56	JAY GOYANI	150420109513	Monitoring, controlling & protection of distribution transformer
	57	SALMAN QUERESHI	150420109539	
	58	GAURAV SAVLANI	150420109547	
	59	CHINTAN VADARIYA	150420109556	
	60	AMLANI DARSHAN	140420109555	
	61	PATEL VAIBHAV	140420109541	
13	62	PRASHNEJIT SINHA	150420109538	Congestion management of a power system
	63	SRUJAY PATEL	150420109554	
	64	TATSAT TRIVEDI	150420109555	
	65	YASH PATEL	150420109559	
14	66	NIDHI CHAUHAN	160423109502	Electricity theft detection based on IOT
	67	SAJAN GARAMBHA	160423109504	
	68	NIKUNJ PATEL	160423109509	
	69	PRIYANKA PADVI	160423109508	

➤ **Best Projects of Shift-I**

Rank	Students' Name	En. Number	Project Title
I	PATEL SAURAV Y.	150420109050	Shunt Active Power Filter
	SHAH HETASVI K.	150420109057	
	CHITRODA RUTVIJ A.	150420109003	
	LUNAGARIYA KINJAL C.	150420109005	
	SINGH SATYAM K.	150420109013	
II	PATIL PARTH SHASHIAKNT	150420109053	Maximum Power Point Tracking Algorithm for Photovoltaic Systems under Partial Shaded Conditions
	VAIWALA RAHUL JIGNESH	150420109063	
	UPADHYAY HEMANGINI C.	150420109027	
	MEGHA D. AHUJA	150420109004	
	DHARMIK P. RATHOD	150420109019	
II	ABHEY KUMAR	150420109001	Smart shopping using embedded system
	CHAUHAN BHAVIK	150420109013	
	DESAI DENISH	150420109016	
	DOBARIYA PIYUSH	150420109021	
	GUPTA PANKAJ	150420109039	
II	GANDHI PARIM	150420109023	Hybrid System
	JARIWALA KARTIK	150420109028	
	PATEL PARTH	150420109043	
	RAMANI SENIL	150420109054	
	VAGHANI MAHEK	150420109062	

➤ **Best Projects of Shift-II**

Rank	Students' Name	En. Number	Project Title
I	KRISHNA DHEKAR	150420109509	A comparative study of speed control method for induction motor
	KUNAL D. PATEL	150420109519	
	JATIN MANGHANI	150420109524	
	NIKHIL MISTRY	150420109528	
	SMIT PATEL	150420109536	
II	VIPUL RAJPUROHIT	150420109540	Analysis and implementation of various pwm methods for the speed control of 3-phase induction motor
	SMRITI SETHIA	150420109552	
	MANAN PRAJAPATI	160423109511	
	VATSAL SAFARI	160423109513	
	ROMI SHAH	160423109514	
III	DEEP PATEL	150420109507	Condition monitoring of induction motor using signal processing method
	BHARGAV KADAM	150420109516	
	YATRI PATEL	150420109537	
	NIDHI VAIDYA	150420109557	
	FENIL CHARKHAWALA	150420109503	

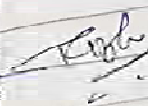
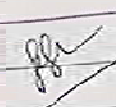
➤ Feedback From External Panel:

Project Showcase (20/02/19) DE-SI SL (Shri. 2 & 11)	Students	
1. Dr. Janki Patel SVNET Asst. Prof. Jyoti		4th
2. Dr. V.K. Patil Ex. Hk. 557 Ex. 557 Ex. 557	Jyoti	
3. Dr. P.D. Mansur G. Bhatnagar	Jyoti	seed project
	Jyoti	good project

➤ Feedback From Final years teams:

Enroll	Feedback	Name	Year	Signature
150420101324	The faculty gave us some	Tatin	4th (env)	8
150420101324	improvement and also	Krishna	"	8
150420101324	taught us some new	Vipul	"	8
	methods to improve			
	our project, it was			
	an interesting session			
	with the external			
	faculty that visited			
	us -			
150420101324	from the starting we	Anushi		8
15	were encouraged in all			
21	forms. There are few			
58	faculties who helped			
160423101324	us not whenever we	Nikas	"	Nikas
	asked for help. Especially			
	we want to thank my			
	guide Prof. Shival Patel			
	who guided us out in			
	every difficulty. We			
	would also like to			
	thank			
150420101324	From the starting we were	Komal	"	Komal
150420101324	encouraged in all the form			
	Our guide will gives us			
	idea who to select the project			
	and help us to give some			
	new idea in the project. Especially			
	I want to thank my guide Prof.			
	"Urvashi Jaiswal"			
150420101324	The Suggestion given by	Kunjari	"	6
150420101324	external faculty was	Jay	"	6
	very helpful.			

➤ **Feedback From Faculties:**

<u>Faculty Feedback</u>	
25/05/19 Prof. Dr. Anila Chandra	
Project showcase is a great opportunity for final year students to showcase their work and get useful feedback from industry people.	
Prof. Krishna Lakshmi	
→ Project showcase is a great event that will be useful for 3 rd & 4 th Year students to showcase their talent.	
Prof. Shaikh Mo. Suhel	
→ It was nice experience to interact with students of final years. This is also good experience for pre-final year student for project idea.	
Dr. Ashish Nair	
The Project Showcase is a unique opportunity for the students to demonstrate their skills at UoB level.	

➤ Feedback From Third year Students

Project Showcase = 5/03/19

Roll No.	Feedback	Name	Year Branch	Sign
160420109010	From this project fair	Rahil Gabani	3 rd (M)	Rahil
" 14	we got some new	Shubham	"	Shubham
" 03	ideas for implementing	Vishal	"	Vishal
" 25	new innovative projects.	Krishna	"	Krishna
" 38	many projects are	Kavi	"	Kavi
" 39	very innovative and	Priyansh	"	Priyansh
" 23	useful in industrial	Sanket	"	Sanket
" 22	area.	Ankit	"	Ankit
" 36		Hrush	"	Hrush
16042010957	We got new idea about	manshi	3 rd (E)	Manshi
170423109516	I learn something that	Chaitri	"	Chaitri
170423109518	we can use that idea for	Manali	"	Manali
170423109513	our final year project.	Kavya	"	Kavya
170423109515	The Project fair gives a	Blavin	"	Blavin
	brief idea for selecting			
	upcoming project and gives			
	idea about some industrial			
	problems.			

➤ Key insights/ benefit/learning from the event

The exercise of final year project showcasing has served the purpose. Third year & final year students are benefited from this event. Experts from the industries have provided key insights to the students related to their projects. Also for faculties, it is a good teaching & learning experience. Industry experts have appreciated students' efforts. It is beneficial in bridging the gap between the industry & academia.

➤ **Photos:**







➤ **Project Showcase Conducted by:**

Prof. Aditi Hazari

Incharge HoD

Dr. Hardik Desai

Incharge Shift-II

Prof. Urvi T. Jariwala

Prof. Rajeshkumar Prasad

Prof. Hemin Motiwala

Prof. Siddhi Patel

Prof. Hena Desai

Prof. Kalpesh Parmar

(Class Mentors Shift-I and II)