

## **Report of PROJECT SHOWBOAT**

**Name of Event:** ELECTRONIC CIRCUIT DEVICES PROJECT SHOWBOAT

**Date and Time:** 8<sup>th</sup> October, 2025

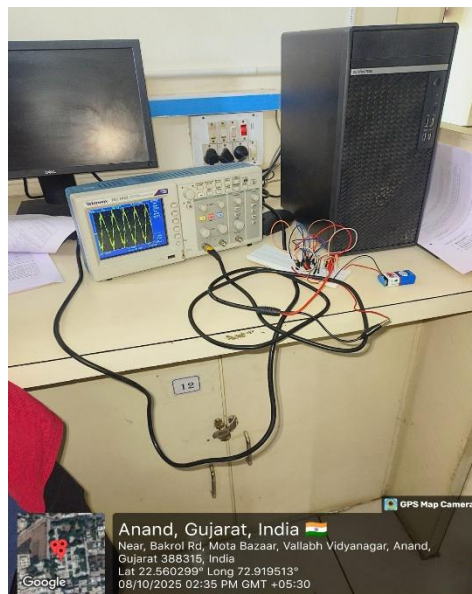
**Faculty Coordinator:** Dr Kavindra R Jain

**Number of Participants:** 84

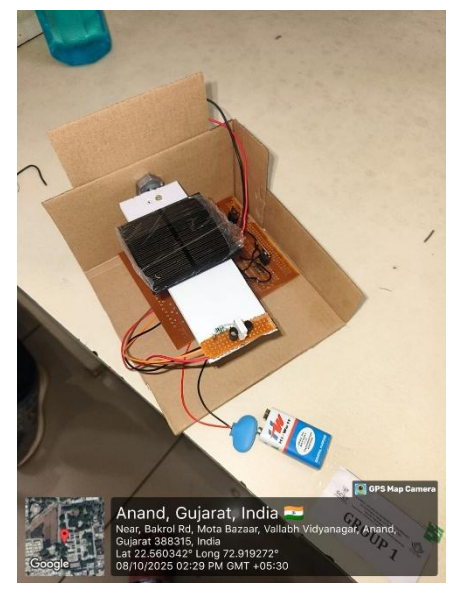
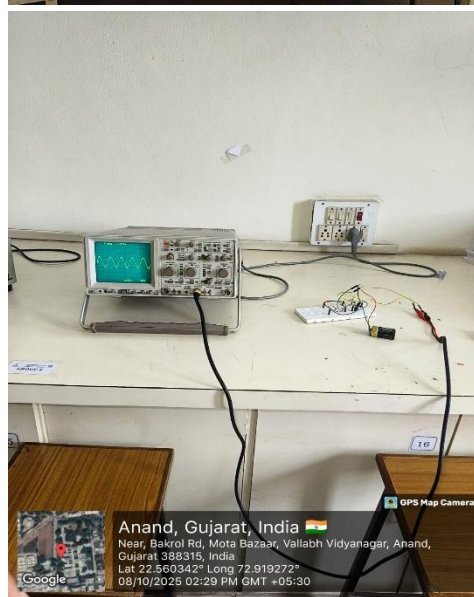
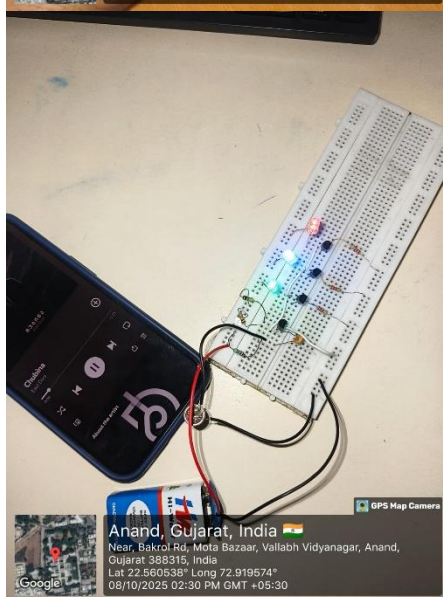
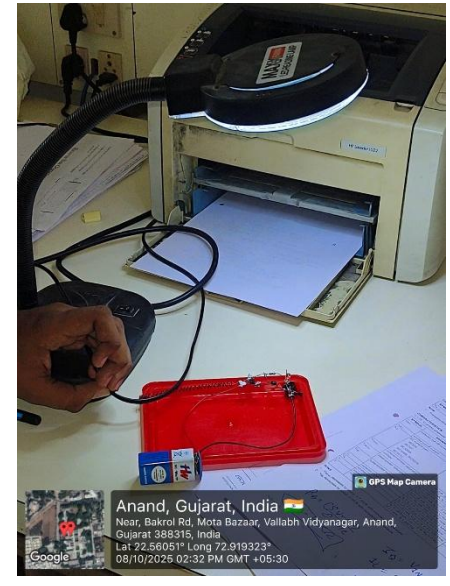
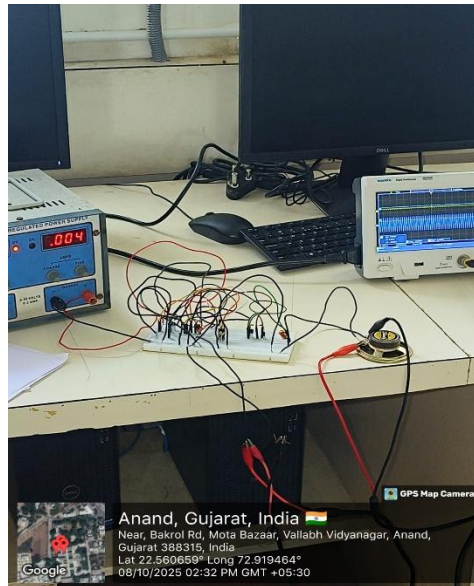
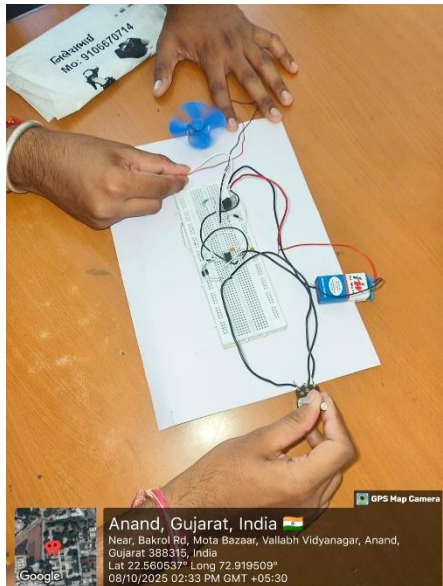
## **PROJECT DEMONSTRATION**

Time and talents are the aspects that play a crucial role in determining what one's career graph can look like given the increasing competition in the expanding sector of technology. When one's talents match what the market demands and what the existing educational model falls short of delivering, one is always in a better position. Department of Electronics and Communication Engineering organized a ELECTRONIC CIRCUIT DEVICES PROJECT SHOWBOAT. 16 PROJECTS by second year EC students have been prepared based on ELECTRONIC CIRCUIT AND DEVICES Circuit applications. The enthusiastic students have designed projects hardware only using basic electrical and electronic components. Students learnt the basics of BJT, MOSFET, JFET Amplifiers and Diode based applications. They also gained hands-on experience in soldering mounting on thin pcb sheets as well as solving the queries of electronic jugglery, which are widely used in various applications such as robotics, home automation, and IoT (Internet of Things) projects. Through a combination of theoretical concepts and practical exercises, students will develop a solid foundation in analog and electronic programming skills that they can apply to real-world projects. This session was led by team members themselves under supervision of Professor Dr Kavindra R Jain, who is currently working as an Assistant Professor in the Electronics and Communication Engineering Department at GCET.



❖ **Photographs:**









No of Participants: Total- 84 students and 1 Faculty with 3 judges

<p align="center">  <b>G H PATEL COLLEGE OF ENGINEERING &amp; TECHNOLOGY</b>  <b>G H PATEL COLLEGE OF ENGINEERING &amp; TECHNOLOGY</b>          (A Constituent College of CVM University)  <b>Vallabh Vidyanagar - 388 120</b>          Department of Electronics and Communication Engineering  <b>202060303: PROJECT SHOWBOAT WITH SIGN SHEET</b>  </p>				
Group No.	Enrolment No.	NAME	SIGNATURE	Project Title
GROUP 1	12402060501001	Abhi S. Varaiya	Abhi S. Varaiya	Solar Tracker
	12402060501002	Aditya Joshi	Aditya Joshi	
	12402060501004	Ananya Thapa	Ananya Thapa	
	12402060501005	Patel Ansh	Patel Ansh	
	12402060501006	Aayush Chakshi	A. Chakshi	
GROUP 2	12402060501007	Daksh Kravira	Daksh Kravira	collpits oscillator
	12402060501008	Dev Bhaveshwar Pidd	Dev Bhaveshwar Pidd	
	12402060501009	Dev B. Patel	Dev B. Patel	
	12402060501010	Patel Dhruv	Patel Dhruv	
	12402060501011	Dhruv Rana	Dhruv Rana	
GROUP 3	12402060501012	Dhruvi Bhaur	Dhruvi Bhaur	MOSFET RC Phase Shift Oscillator
	12402060501013	Dhruvil	D. V. S.	
	12402060501014	Dhruv N. Patel	Dhruv N. Patel	
	12402060501015	Dhruv Patel	Dhruv Patel	
	12402060501016			
GROUP 4	12402060501017	Hem Patel	Hem Patel	MOSFET RELAY DRIVER
	12402060501018	Joshi Himanshu S.	Joshi Himanshu S.	
	12402060501019	Himanshu Namigera	Himanshu Namigera	
	12402060501020	Honey Sakalshawala	Honey Sakalshawala	
	12402060501022	Jagan N. Patel	Jagan N. Patel	
GROUP 5	12402060501024	Nayani Jeet	Nayani Jeet	Rhythm based LED by BC547
	12402060501025	Kalina Mahida	Kalina Mahida	
	12402060501026	Krish Vadukija	Krish Vadukija	
	12402060501027	Krunal Patel	Krunal Patel	
	12402060501028			
GROUP 6	12402060501029	Malay Karsugum	Malay Karsugum	F.M Transmitter
	12402060501030	Misty Patel	Misty Patel	
	12402060501031	meet savsani	meet savsani	
	12402060501032	Mustansir Jadhvi	Mustansir Jadhvi	
	12402060501033	Neel Vyas	Neel Vyas	
GROUP 7	12402060501034	Neel Prajapati	Neel Prajapati	BJT CP-AMP
	12402060501035	Neeti Shah	Neeti Shah	
	12402060501036	Piyush Golekisa	Piyush Golekisa	
	12402060501037	Piyush Sharma	Piyush Sharma	
	12402060501038	Pooja K. Kulkarni	Pooja K. Kulkarni	
GROUP 8	12402060501039	Mavani Pratik	Mavani Pratik	wireless AC current Tester
	12402060501040	Polyadashankar	Polyadashankar	
	12402060501041	Priyanshu Himrajigga	Priyanshu Himrajigga	
	12402060501042	Prithvi Takani	Prithvi Takani	
	12402060501043	Patel Raj	Patel Raj	



 <b>G H PATEL COLLEGE OF ENGINEERING &amp; TECHNOLOGY</b> (A Constituent College of CVM University) <b>Vallabh Vidyanagar - 388 120</b> Department of Electronics and Communication Engineering						
GROUP 9	12402060501044	Rohun, S. Ridd	Rohun		DC Motor speed Controller using	
	12402060501045	Rudra Machhi	Rudra			
	12402060501046	Rishi Shukla	Rishi			
	12402060501047					
GROUP 10	12402060501048	Shiv Chauhan	Shiv		MOSFET Astable Multivibrator using two transistors	
	12402060501049	Shravya N. Patel	Shravya			
	12402060501050	Shreyansh Khute	Shreyansh			
	12402060501051	SHRUTI PALEKAR	Shruti			
	12402060501052	TEET SHUKLA	Teet			
GROUP 11	12402060501053	SUJAL SUVARTYA	Sujal		DC to AC Converter	
	12402060501054	SUSAL KOLAKOTA	Susal			
	12402060501055					
	12402060501056	TAKSHA PATEL	Taksha			
GROUP 12	12402060501057	Patel Tirth	Tirth		Transistor based audio amplifier	
	12402060501058					
	12402060501059	Purnima Vatsavij	Purnima			
	12402060501060	Ved Contractor	Ved			
	12402060501061	Ved Prayapati	Ved			
GROUP 13	12402060501062	Vedant Zuthar	Vedant		Transistor based pulse generator	
	12402060501063	Vedant Prayapati	Vedant			
	12402060501064	Vedika Kanani	Vedika			
	12402060501065	Venisha Raiyani	Venisha			
	12402060501066	Vihari Bhimani	Vihari			
GROUP 14	12402060501067	Vinay Pethani	Vinay		FM Bug Transmitter	
	12402060501068	Viva Shah	Viva			
	12402060501069	Vijayesh Bana	Vijayesh			
	12402060501070	Yakuta Bhatia	Yakuta			
	12402060501071	Yash Panchal	Yash			
GROUP 15	12402060501072	Bhavya Bhambhani	Bhavya		Audio Amplifier using BC547.	
	12402060501073	Dhruv Doshi	Dhruv			
	12402060501074	Jeet Patel	Jeet			
	12402060501075	Milind Pansuria	Milind			
	12402060501076	Rajendra Varma	Rajendra			
GROUP 16	12402060501077	Samarjit Kiri	Samarjit		Emergency LED Light with using MOSFET infra	
	12402060501078	Ved diwakar	Ved			
	12402060501079	Vidhi Jetliwa	Vidhi			
	12402060501080					
GROUP 16	12502060503001	Het Patekh	Het			
	12502060503002	Tinil Jari	Tinil			
	12502060503003	Praya Patel	Praya			
	12502060503004	Prayanshi Patel	Prayanshi			

## CONCLUSION

The session was highly insightful. We would like to thank Dr Kavindra R Jain for his time and efforts. We would also like to thank Dr. HITESH B SHAH for his continuous support and guidance. Also, to student coordinators for their constant efforts. All members of the team gave it their best efforts.