

Report of ANALOG PROJECT SHOWBOAT

Name of Event: ANALOG CIRCUIT PROJECT SHOWBOAT

Date and Time: 5TH December, 2024

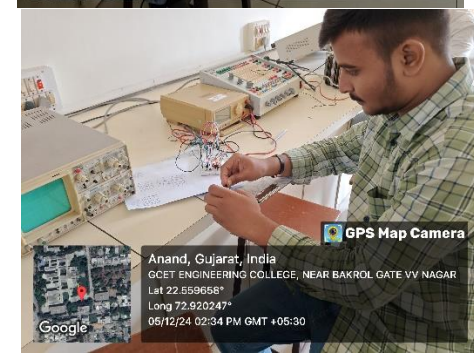
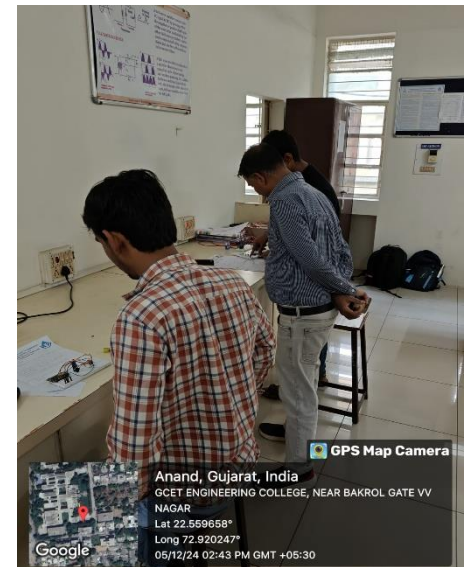
Faculty Coordinator: Dr Kavindra R Jain & Dr Hitesh B Shah

Number of Participants: 32

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 ANALOG CIRCUIT PROJECT SHOWBOAT. 32 PROJECTS by first year ICT students have been prepared based on Analog Circuit applications. The enthusiastic students have designed projects hardware only using basic electrical and electronic components. Students learnt the basics of BJT, LOGIC GATES 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- 32 students and 2 Faculties

| Enrollment | Temp ID | Name | Batch | TOPIC | SIGNATURE |
|----------------|----------|--------------------------------|-------|---|-------------|
| 12402230501001 | 240CT426 | SONI AASTHA MANISHKUMAR | 1823 | Passive circuit | [Signature] |
| 12402230501002 | 240CT423 | PATIL AKASH AGRESH HITESHKUMAR | 1823 | | |
| 12402230501003 | 240CT713 | ANILKUMAR KISHAY ARVINDRAJ | 1823 | High Pass LED Flasher circuit | [Signature] |
| 12402230501004 | 240CT502 | PATEL AKUL MUKESHKUMAR | 1823 | LED Brightness Controller | [Signature] |
| 12402230501005 | 240CT918 | VASH ARYAN HASMUKHIBHAI | 1823 | Music rhythm based LED lighting lights | [Signature] |
| 12402230501006 | 240CT910 | MASTEL BHAVINKUMAR DHIRU | 1823 | Voltage doubler circuit | [Signature] |
| 12402230501007 | 240CT901 | PATEL BRIJ SHAILESHIBHAI | 1823 | Clippers circuit | [Signature] |
| 12402230501008 | 240CT707 | LAKSHMI DHARM BHAVESHBHAI | 1823 | Clippers clamping circuit | [Signature] |
| 12402230501009 | 240CT905 | VANKAR DHIRAJ NILESHIBHAI | 1823 | 2:1 Voltage divider circuit | [Signature] |
| 12402230501010 | 240CT798 | CHAUDHARI JEMANY VILASIBHAI | 1823 | Touch sensor alarm | [Signature] |
| 12402230501011 | 240CT419 | PATEL ISHAN PRAKASHKUMAR | 1823 | Electric level indicator | [Signature] |
| 12402230501012 | 240CT424 | PATEL JAYANT GIRANSHYAMBHAI | 1823 | Pressure measurement sensor by ultrasonic | [Signature] |
| 12402230501013 | 240CT799 | KOLADITYA KAVYA RAINKANT BHAI | 1823 | Clamping circuit | [Signature] |
| 12402230501014 | 240CT412 | SHAH KHUSHI JIGAR | 1823 | Different Operating conditions of BJT | [Signature] |
| 12402230501015 | 240CT011 | BELANI KHUSHI SATISH | 1823 | | |

| Enrollment | Temp ID | Name | Batch | TOPIC | SIGNATURE |
|----------------|----------|------------------------------|-------|--|-------------|
| 12402230501016 | 240CT704 | MAYADITYA KIRITAN GRAMANBHAI | 1823 | Active filter | [Signature] |
| 12402230501017 | 240CT004 | DERIA KIRISH PRAVINSHIMAR | 1823 | Active filter | [Signature] |
| 12402230501018 | 240CT403 | VIRADITYA MANAY UPENDRABHAI | 1823 | 5V D.C Power Supply Circuit | [Signature] |
| 12402230501019 | 240CT016 | PRAJAPATI MESTON MUKESHKUMAR | 1823 | Temperature (COT) as a switch | [Signature] |
| 12402230501020 | 240CT416 | JOSHI NANDAN BIRENKHUMAR | 1823 | Voltage Regulator circuit | [Signature] |
| 12402230501021 | 240CT012 | PATEL NISARG GANPATIBHAI | 1823 | Long Swaps circuit using transistors | [Signature] |
| 12402230501022 | 240CT705 | TRADA OM VIPULBHAI | 1823 | Light sensor circuit | [Signature] |
| 12402230501023 | 240CT703 | MANGURIA PRUTHVI FORVAKASH | 1823 | Power switcher circuit | [Signature] |
| 12402230501024 | 240CT414 | MANGURIA PRUTHVI FORVAKASH | 1823 | using transistors central infrared light | [Signature] |
| 12402230501025 | 240CT407 | BIHADYADARA RAJAN NAVINBHAI | 1823 | Clippers circuit (Positive & Negative) | [Signature] |
| 12402230501026 | 240CT503 | CHAUHAN KIDARA SHANKAR | 1823 | Battery clip thermostat tester | [Signature] |
| 12402230501027 | 240CT411 | BUDHSHETTI SIBIRTI UMESH | 1823 | LED Chaser | [Signature] |
| 12402230501028 | 240CT408 | RANK SOHAM SUNILBHAI | 1823 | LED Chaser | [Signature] |
| 12402230501029 | 240CT415 | PAWAR UMANG NARENDRA | 1823 | LED Chaser | [Signature] |
| 12402230501030 | 240CT501 | KHANPARA VATSAI BHARATBHAI | 1823 | Electronic scale | [Signature] |
| 12402230501031 | 240CT422 | DHARASANDHYA VED KETANKUMAR | 1823 | 30VDC to 5VDC converter | [Signature] |
| 12402230501032 | 240CT706 | THUMMAR VIREN DHARMENDRA | 1823 | Electronic beep as a alarm | [Signature] |
| 12402230501033 | 240CT401 | BUDH KRISHITI SUNILBHAI | 1823 | Transistor as an Amplifier | [Signature] |
| 12402230501034 | 240CT409 | TAGADITYA PRINCE NARESHIBHAI | 1823 | Temperature base fan Controller | [Signature] |

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.