



S.P.B. PATEL  
ENGINEERING COLLEGE  
SAFFRONY INSTITUTE OF TECHNOLOGY CAMPUS



**Prof. Akshay Kansara**

SESSION ON  
**DATA COLLECTION  
AND  
ANALYSIS TECHNIQUES**



**21 MARCH, 2023**  
**02:00 PM - 04:30 PM**



**Auditorium,  
Saffrony Institute of India, Mehsana**

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## Report on Session on Data Collection and Analysis Techniques

### Introduction:

Saffrony Institute is committed to fostering a culture of research and innovation among its students, with a particular focus on Design Engineering. As part of this initiative, students are encouraged to publish review/research papers during their final phase of Design Engineering in the 6th semester. This report provides an overview of the efforts made by the Design Engineering faculty team to facilitate this process and the outcomes achieved.

### Objectives:

1. Instill research skills among 6th-semester students.
2. Encourage students to publish quality papers.
3. Familiarize students with research methodology.
4. Equip students with essential tools for paper writing and presentation.

### Initiative:

#### 1. Special Session on Data Collection and Analysis Techniques:

- **Date:** 21st March 2023
- **Facilitator:** Akshay Kansara
- **Participants:** 55 students from the 6th semester

### Session Overview:

The session on data collection and analysis techniques aimed to provide 6th-semester students with practical guidance on collecting and analyzing data for their research projects.

### Key Topics Covered:

1. Data Collection Methods: Students were introduced to various methods of data collection, including surveys, interviews, observations, and experiments, relevant to their 6th-semester research projects.

2. Data Analysis Techniques: The session covered a range of data analysis techniques, both quantitative and qualitative, suitable for the research projects undertaken by 6th-semester students.
3. Data Validation and Reliability: The importance of data validation and reliability in the context of 6th-semester research projects was emphasized, along with strategies for ensuring data accuracy and integrity.
4. Ethical Considerations: Ethical considerations specific to the 6th-semester research projects, such as informed consent and confidentiality, were discussed, reinforcing the importance of ethical research practices.

**Outcomes:**

The session on data collection and analysis techniques equipped 6th-semester students with practical skills and knowledge essential for conducting rigorous research. Participants gained a deeper understanding of the data collection process, analysis methods, and ethical considerations, enhancing the quality and validity of their research projects.

**Conclusion:**

The session on data collection and analysis techniques exemplifies Saffrony Institute's commitment to nurturing a research-oriented mindset among 6th-semester students. By providing practical guidance and resources tailored to their research projects, the Design Engineering faculty team empowers students to conduct high-quality research and contribute meaningfully to the field of Design Engineering. Through initiatives like this, Saffrony Institute continues to cultivate a culture of research and innovation, preparing 6th-semester students for success in academia and beyond.

**Photographs:**



" Interactive Session with faculty"