

Assignment - 2Task 1:- Short Survey Design (5-10 Questions)

1. How satisfied are you with the overall teaching quality at the college?  
• very satisfied / satisfied, Neutral / Dissatisfied
2. How would you rate the classroom and lab facilities.  
• very satisfied / satisfied / Neutral.
3. How helpful are faculty members when you need academic support?
4. How satisfied are you with administrative services
5. Do you feel safe on the campus?
6. Rate the availability of extracurricular activities and clubs.
7. How satisfied are you with the campus environment
8. How likely are you to recommend this college to others?
9. What improvements would you like to see at the college?

10. Any additional comments or suggestions?

Task 2: collection of 10-15 Responses.

	Overall Satisfaction	Teaching Quality
10.		Good
1	Satisfied	Excellent
2	very satisfied	Average
3	Neutral	Poor
4	Dissatisfied	Good
5	Satisfied	Excellent
6	very satisfied	Average
7	Neutral	Good
8	Satisfied	Poor
9	Dissatisfied	Good
10	Satisfied	Excellent
11	very satisfied	Average
12	Neutral	

Task 3: Identify & Fix Data Issues.

1. Missing data.

- Response 11: "Improvement suggestion" = NA (treated as missing).
- Some suggestion are blank or unclear

2. Inconsistent Formatting

- Some response use "NA", others use text, some blank
- Yes/no answers mixed with sometimes - should standardize

### 3. Duplicate Entries.

- No exact duplicate entries found, but check IDs to ensure uniqueness.

### Cleaned dataset.

- Replaced all "NA" or blanks with "no suggestion."
- Standardized safety responses → Yes / No / Sometimes
- Standardized text formatting
- Ensured ID uniqueness

### Task 4: Short note on Ethical Considerations while collecting personal data.

#### 1. Informed consent

participants must be told the purpose of the survey and agree voluntarily.

#### 2. Confidentiality

personal details such as names, roll numbers, or contact information must be protected and not shared.

#### 3. Data Minimization

only collect information that is necessary for the study.

#### 4. Anonymity

Responses should not identify individuals unless essential.

5. Secure storage  
Data must be stored securely to prevent unauthorized access.

6. Honesty and Transparency  
participants should know how their data will be used

7. Right to withdraw  
! They should be allowed to skip questions or leave the survey anytime.

8. Avoid Harm  
Ensure no sensitive or emotionally distressing questions are asked.