

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 / Disatisfied

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

10. Overall satisfaction

Teaching Quality

1 Satisfied

Good

2 very satisfied

Excellent

3 Neutral

Average

4 Dissatisfied

Poor

5 Satisfied

Good

6 very satisfied

Excellent

7 Neutral

Average

8 Satisfied

Good

9 Dissatisfied

Poor

10 Satisfied

Good

11 very satisfied

Excellent

12 Neutral

Average

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.