



# INNOVATIVE COLLEGE OF PHARMACY

Affiliated To Dr. A.P.J. Abdul Kalam Technical University, Lucknow, U.P. & Approved By PCI

## NOTICE

DATE:- 16-02-2021

This is inform all the students and faculty members that the one day seminar based on “**Designing Research Instruments Best Practices and Challenges**” will be delivered by, Dr. Neelam Saxena, Assistant Professor, St. Stephen College, Delhi.

Venue: Seminar Hall

Date: 22-02-2021 (Monday)

Time: 12.00 pm – 2.00 pm



Principal

Copy to :- 1. Academic Director

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## Report on Guest Lecture

**Topic: Designing Research Instruments Best Practices and Challenges**

Date: 22-02-2021

Venue: Seminar Hall

Speaker: **Dr. Neelam Saxena**

### Introduction

Research instruments are tools used to collect, measure, and analyze data in research. Designing effective research instruments is crucial for ensuring the validity and reliability of research findings. This seminar explores the best practices for designing research instruments and discusses the challenges researchers may encounter during this process.

### Importance of Research Instruments

Research instruments are the backbone of data collection, influencing the accuracy and relevance of the data gathered. The quality of the research instrument directly affects the study's outcomes and its contribution to the field.

### Types of Research Instruments

- **Surveys and Questionnaires:** Widely used for collecting quantitative data from a large sample.





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- **Interviews:** Useful for obtaining in-depth qualitative data.
- **Observation Checklists:** Employed in studies where direct observation is necessary.
- **Tests and Assessments:** Used in educational research to measure knowledge, skills, and attitudes.
- **Scales and Indexes:** Measure complex variables such as attitudes, beliefs, and behaviors.

## Best Practices in Designing Research Instruments

- Clearly Define the Research Objective
- Thoroughly Review Existing Instruments
- Involve Experts and Stakeholders
- Pilot Testing
- Ensure Validity and Reliability
- Design for Ease of Use
- Ethical Considerations

## Challenges in Designing Research Instruments

1. Balancing Depth and Breadth
2. Cultural Sensitivity
3. Resource Constraints
4. Technical Difficulties
5. Participant Engagement
6. Handling Missing Data







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## Conclusion

Designing research instruments is a critical and complex process that requires careful planning, testing, and refinement. By following best practices and anticipating challenges, researchers can create instruments that yield valid, reliable, and meaningful data, ultimately contributing to the success of their research.





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## Photographs



Figure 1: Photographs of honorable speaker presented valuable lecture on “Designing Research Instruments Best Practices and Challenges”







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Figure 2: Photograph of faculty members with students attending a seminar on “Designing Research Instruments Best Practices and Challenges”

