



**Sir Vithaldas Thackersey College of Home Science (Empowered Autonomous Status),  
SNDT Women's University**

**R&D Centre Activity Report 2024-2025**

**R&D Centre Activity No.: 2. (to be filled by R&D Centre Coordinator)**

<b>Name of Activity</b>	R&D Centre Activity: Intensive PhD Coursework Workshop on Research Methodology Part I and Part II		
<b>Date</b>	<b>Faculty</b>	<b>Department/committee</b>	<b>Coordinator</b>
16 January 2025 - 23 January 2025	Dr. Panchali Moitra	SVT R&D Centre	Dr. Panchali Moitra
11 February 2025 - 12 February 2025			
<b>Time</b>	<b>Platform</b>	<b>Number of participants</b>	<b>Outdoor/indoor</b>
16.01.25-23.01.25 -10:00 AM - 5:00 PM	Shri Sudhir Krishnaraj Thackeresey Conference Room (Virtual Conference Room), SVT College of Home Science (Empowered Autonomous Status), SNDT Women's University, Santacruz <b>And</b> Online (Zoom)	16.01.25-23.01.25 - 30 students	Indoor
11.02.25 & 12.02.25 - 10:00 AM-12:00 PM 6:00 PM-8:00 PM		11.02.25 & 12.02.25 - 23 students (Day 1) 19 students (Day 2)	
<b>Support/ assistance</b>	Video recording of each session by Mr. Elton Pinto		



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**Intensive PhD Coursework Workshop on Research Methodology Part I**

**Agenda:**

PROGRAM SCHEDULE						
Timings	Day 1 - 16 January 2025 Thursday Introductory Sessions	Day 2 - 17 January 2025 Friday Literature Review and Proposal Writing	Day 3 - 20 January 2025 Monday Data Analysis Tools and Techniques	Day 4 - 21 January 2025 Tuesday Bibliometrics & Tool Development	Day 5- 22 January 2025 Wednesday Qualitative Research Methodology	Day 6 - 23 January 2025 Thursday Proposal Presentations
9:30 am - 10 am	Registration					
10:00am - 10:30am	Inauguration and Welcome Address	Good Documentation Practices in Research  <b>Dr Kiran Marthak</b> Chairperson, Intersystem Biomedica Ethics Committee, Mumbai	Quantitative Research: Sampling and Data Collection Methods  <b>Dr. Sumithra Selvam</b> Assistant Professor, Division of Epidemiology, Biostatistics and Population Health, St. John's Research Institute (SJRI), Bangalore	From Manuscript to Publication: Navigating the Scholarly Landscape through Bibliometrics  <b>Dr. Pratima Tatke</b> Principal & Professor, CU Shah College of Pharmacy, SNDT Women's University, Mumbai	Qualitative Research When to Select What?  <b>Dr. Neha Rathi</b> Independent Researcher Ex-Post Doctoral Fellow, Banaras Hindu University Ex- Postdoctoral Fellow, IIT B	Mastering Scientific Presentations  <b>TBC</b>
10:30am - 11:00am	Research and Publication Ethics  <b>Dr. Shobha Udipti</b> Research Director and Head, Kasturba Health Society-Medical Research Centre, Mumbai					
11:00am - 11:30am						
11:30 am - 1:00pm	Introduction to Research Methods Session 1- Overview of Quantitative Study Designs  <b>Dr Subhadra Mandalika</b> Professor, Nirmala Niketan College of Home Science, Mumbai	Principles and Tools of Literature Review  <b>Prof. (Dr.) Vanisha Nambiar</b> Department of Foods and Nutrition, The Maharaja Sayajirao University of Baroda (MSU))	Introduction to Descriptive and Inferential Statistics  <b>Dr. Sumithra Selvam</b> Assistant Professor, Division of Epidemiology, Biostatistics and Population Health, St.John's Research Institute (SJRI), Bangalore	Referencing Styles in Research  <b>Dr. Jyoti Bhabal</b> Associate Professor, SHPT Institute of Library Sciences, Mumbai	Hands-on session: Qualitative Data Collection Methods- Development and Validation  <b>Dr. Neha Rathi</b> Independent Researcher Ex-Post Doctoral Fellow, Banaras Hindu University Ex- Postdoctoral Fellow, IIT B	End of Course Proposal Presentations Session 1
1:00pm - 2:00pm	Lunch	Lunch	Lunch	Lunch	Lunch	Lunch
2:00pm - 3:00pm	Introduction to Research Methods Session 2 - Overview of Qualitative and Mixed Method Study Designs  <b>Dr Subhadra Mandalika</b> Professor, Nirmala Niketan College of Home Science, Mumbai	Hands-on session: Essentials of Scientific Writing with a Focus on Proposal Writing  <b>Prof. (Dr.) Vanisha Nambiar</b> Department of Foods and Nutrition, The Maharaja Sayajirao University of Baroda (MSU))	Hands-on session: Statistical software- SPSS/STATA  <b>Dr. Sumithra Selvam</b> Assistant Professor, Division of Epidemiology, Biostatistics and Population Health, St. John's Research Institute (SJRI), Bangalore	Steps in Questionnaire Development  <b>Dr. Panchali Moitra</b> Academic Dean (Postgraduate Programs and Research), Coordinator, SVT PhD Centre	Hands-on session: Qualitative Data Analysis Techniques  <b>Dr. Neha Rathi</b> Independent Researcher Ex-Post Doctoral Fellow, Banaras Hindu University Ex- Postdoctoral Fellow, IIT B	End of Course Proposal Presentations Session 2
3:00pm - 4:30pm	Writing Compelling Research Questions  <b>Dr. Subhadra Mandalika</b> Professor, Nirmala Niketan College of Home Science, Mumbai			Hands on Session: Measures of validity and reliability  <b>Dr. Panchali Moitra</b> Academic Dean (Postgraduate Programs and Research), Coordinator, SVT PhD Centre		Feedback session with Experts
4:30pm - 5:00pm	Discussion of home assignment	Discussion of home assignment	Discussion of home assignment	Discussion of home assignment	Discussion of home assignment	Vote of Thanks Valedictory session



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**Brief Information about the Activity**

<b>Topic/ Subject of the activity</b>	Intensive PhD Coursework Workshop on Research Methodology Part I	
<b>Objectives</b>	<ol style="list-style-type: none"> <li>1. To provide participants with a comprehensive understanding of research methodology, including qualitative and quantitative study designs.</li> <li>2. To enhance skills in scientific writing, literature review, and proposal development for academic research.</li> <li>3. To familiarize participants with ethical guidelines in research, including publication ethics and documentation for ethics committee approval.</li> <li>4. To equip researchers with hands-on experience in data analysis using statistical tools such as SPSS, STATA, and Jamovi.</li> <li>5. To develop effective communication and presentation skills for scholarly work and professional engagement.</li> </ol>	
<b>Methodology</b>	Total 6-days Workshop Eight Assignment submissions Q & A sessions	
<b>Outcomes</b>	<ol style="list-style-type: none"> <li>1. Participants gained knowledge of various research methods and their application in different academic disciplines.</li> <li>2. Improved ability to formulate and refine research questions, conduct literature reviews, and structure scientific papers.</li> <li>3. Enhanced awareness of ethical considerations in research, ensuring adherence to global research standards.</li> <li>4. Strengthened proficiency in statistical analysis and data interpretation through hands-on training with analytical software.</li> <li>5. Increased confidence in presenting research findings effectively to an academic audience.</li> </ol>	
<b>Expert details</b>	4 expert speakers: <ol style="list-style-type: none"> <li>1. Dr. Shobha Udipi</li> <li>2. Prof. Subhadra Mandalika (Rtd.)</li> <li>3. Dr. Kiran Marthak</li> <li>4. Prof. (Dr.) Vanisha Nambiar</li> <li>5. Dr. Sumithra Selvam</li> <li>6. Dr. Pratima Tatke</li> <li>7. Dr. Jyoti Bhabal</li> <li>8. Dr. Panchali Moitra</li> <li>9. Dr. Neha Rathi</li> <li>10. Ms. Apurva Surve</li> </ol>	
<b>Total no. of beneficiaries</b>	Participants	30



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**Supporting Documents Attached (Tick mark the proofs attached):**

<b>Notice and letters</b>	Yes	<b>List of participation</b>		<b>Activity report</b>	Yes	<b>Photos (if possible geotagged)</b>	Yes	<b>News clip with details if any</b>	
<b>Feedback analysis</b>		<b>Feedback forms</b>	Yes	<b>Certificate copies</b>	Yes	<b>Any other</b>			

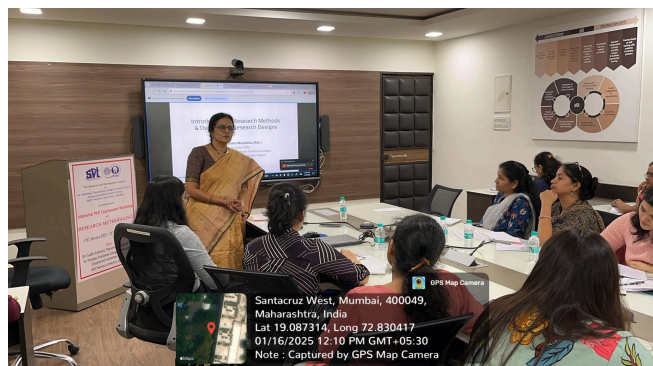
<b>Name of teacher</b>	<b>Name of HOD / Criteria Head / Committee in charge</b>	<b>SVT R&amp;D Centre Co-coordinator</b>	<b>SVT R&amp;D Centre Coordinator (Seal and signature)</b>
Dr. Panchali Moitra	Dr. Jagmeet Madan	-	Dr. Panchali Moitra





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**Photographs from the workshop:**












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**Intensive PhD Coursework Workshop on Research Methodology Part II**

**Agenda-**

PROGRAM SCHEDULE		
Timings	Day 1 - 11 February 2025 Tuesday	Day 2 - 12 February 2025 Wednesday
10:00 am - 11:00 am	Overview of Ethnographic Research - Tools, Techniques & Best Practices   <b>Dr. Jayaprakash Mishra</b> Assistant Professor, Thapar School of Liberal Arts and Sciences, Thapar University, Patiala, Punjab	Steps in establishing Validity and Reliability in Questionnaires   <b>Dr. Panchali Moitra</b> Academic Dean (Postgraduate Programs & Research), Coordinator, SVT PhD Centre, SVT College of Home Science, SNDTWU, Mumbai
11:00 am - 12:00 pm		From Lab Bench to Thesis: Writing with Precision   <b>Dr. Rajeshree Shinde</b> Assistant Professor, Department of Science, SVT College of Home Science, SNDTWU, Mumbai
12:00 pm - 1:00 pm	Archival Data Collection and Digital Databases for Humanities   <b>Dr. Dhrupadi Chattopadhyay</b> Associate Professor, Department of English, SNDT Women's University, Mumbai	---
6:00 pm - 7:00 pm	Documentation for Ethics Committee Approval   <b>Dr. Panchali Moitra</b> Academic Dean (Postgraduate Programs & Research), Coordinator, SVT PhD Centre, SVT College of Home Science, SNDTWU, Mumbai	Probability & Regression Analysis in Quantitative Research using the Jamovi Software   <b>Dr. Sumithra Selvam</b> Assistant Professor, Division of Epidemiology, Biostatistics and Population Health, St. John's Research Institute (SJRI), Bangalore
7:00 pm - 8:00 pm	Qualitative Research Frameworks- Phenomenology & Grounded Theory   <b>Dr. Neha Rathi</b> Qualitative Nutrition & Health Researcher, Ex-Post Doctoral Fellow, Banaras Hindu University Ex-Post Doctoral Fellow, IIT Bombay	



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**Brief Information about the Activity**

<b>Topic/ Subject of the activity</b>	Intensive PhD Coursework Workshop on Research Methodology Part II	
<b>Objectives</b>	<ol style="list-style-type: none"> <li>1. To introduce participants to advanced research methodologies, including ethnographic research and qualitative research frameworks.</li> <li>2. To enhance understanding of ethical considerations in research, including documentation for ethics committee approval.</li> <li>3. To equip researchers with skills in writing precise and well-structured research documents, from lab notes to theses.</li> <li>4. To provide hands-on experience with statistical tools like Jamovi for probability and regression analysis in quantitative research.</li> <li>5. To foster critical thinking and analytical skills required for effective literature review and scholarly publication.</li> </ol>	
<b>Methodology</b>	Total 2-day workshop One 20 min assignment	
<b>Outcomes</b>	<ol style="list-style-type: none"> <li>1. Participants gained knowledge of ethnographic research techniques, enabling them to conduct in-depth qualitative studies.</li> <li>2. Improved awareness and understanding of research ethics, ensuring compliance with guidelines for ethics committee approvals.</li> <li>3. Enhanced scientific writing skills, enabling researchers to produce well-structured and precise research documents.</li> <li>4. Strengthened ability to conduct statistical analysis using software tools like Jamovi, improving data interpretation skills.</li> <li>5. Increased confidence in developing and presenting research findings with clarity and accuracy.</li> </ol>	
<b>Expert details</b>	4 expert speakers: <ol style="list-style-type: none"> <li>1. Dr. Jayaprakash Mishra</li> <li>2. Dr. Dhruvadi Chattopadhyay</li> <li>3. Dr. Panchali Moitra</li> <li>4. Dr. Neha Rathi</li> <li>5. Dr. Rajeshree Shinde</li> <li>6. Dr. Sumithra Selvam</li> </ol>	
<b>Total no. of beneficiaries</b>	Participants	23 (Day 1), 19 (Day 2)



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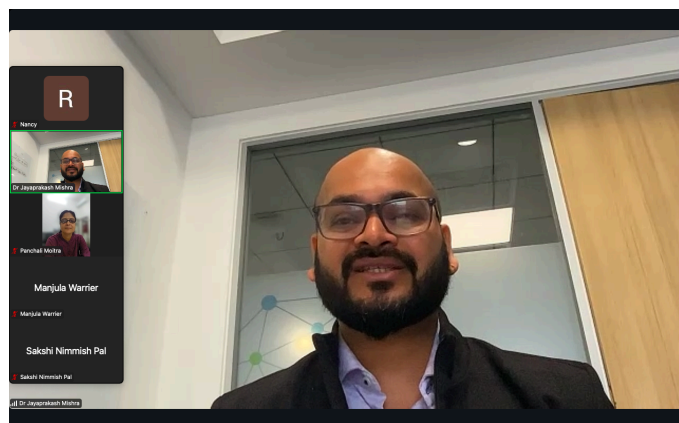
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### Photographs from the workshop:



**BASIC PRINCIPLES OF RESEARCH ETHICS**

Belmont principle	What it means	What you have to do
<b>Beneficence</b>	First, do no harm. Secondly, balance risks of harm against likely benefits.	Risk-benefit assessment
<b>Respect for persons</b>	Treat people as autonomous agents capable of making their own choices. Understand that certain situations limit autonomy.	Informed consent procedure
<b>Justice</b>	Choose subject populations justly. Don't exploit community vulnerabilities (e.g., poverty, lack of education).	Justify your subject selection

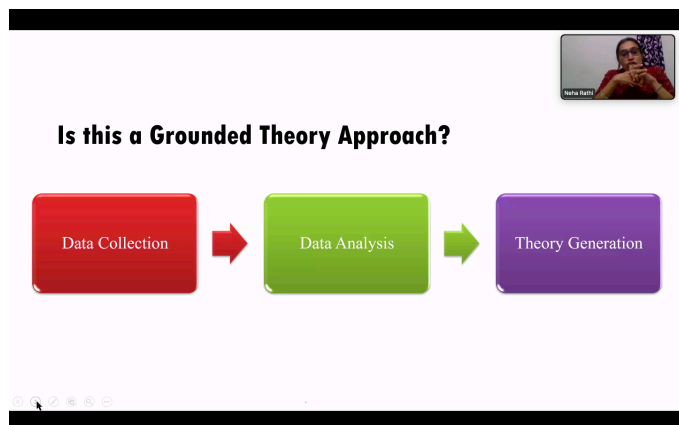
**Respect for Persons:** This emphasizes the importance of consent, autonomy, and protection of vulnerable populations.

**Beneficence:** Researchers are obligated to maximize benefits and minimize harm to participants.

**Justice:** Fairness in participant selection and equitable distribution of the benefits and burdens of research.

**Integrity:** Researchers must conduct their studies honestly, without deception, and with transparency.

**Confidentiality:** Safeguarding participants' privacy and sensitive information.



**Which correlation coefficient?**

**Pearson's correlation coefficient :**

- measures the degree of linear relationship between the variables.
- it is based on the original values.
- requires the assumption of normality.
- interval or ratio scales.
- gets affected by outliers, which may strongly increase or decrease the strength of relationship.

$$r = \frac{\sum x_i y_i - n \bar{x} \bar{y}}{(n-1) s_x s_y}$$

**Spearman's rank correlation**

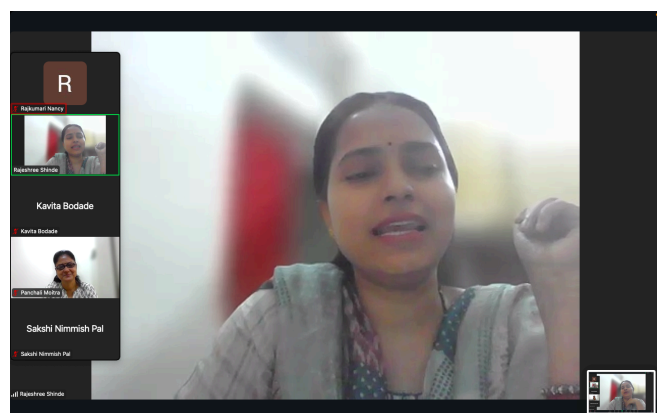
based on the ranked observation of the two variables.

- does not require the assumption of normality
- can be used for ordinal data
- detect linear and non-linear relationships (continuously increase).
- robust to outliers.

$$\rho = 1 - \frac{6 \sum d_i^2}{n(n^2 - 1)}$$

$d_i$  is the difference between the ranks of  $x$  and  $y$

Correlation can measure the relationship when it is linear. However, in the extreme outliers, of a non-linear relationship, Pearson's  $r$  may not be significant correlation.



**Intensive PhD Coursework Workshop  
Part II**

**From Lab Bench to Thesis: Writing with Precision**

Dr. Rajashree Shinde  
12 February 2025

1. Help researchers structure and write their PhD thesis effectively
2. Strategies for translating lab work into precise scientific writing