

# SARIYA COLLEGE, SURIYA

Suriya, Giridih, Jharkhand, 825320

Permanently affiliated to Vinoba Bhave University, Hazaribag, Registered under 2(f) & 12(B) of UGC Act

Accredited with Grade 'B' by NAAC, CGPA 2.35

## Report

On

### 6<sup>th</sup> Days Online Faculty Development Program

**Theme:** Innovative Research Methodologies in Social Sciences: Enhancing Faculty Competence for the 21st Century

**Organized by:** - Internal Quality Assurance Cell (I.Q.A.C.) Sariya College, Suriya

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## FACULTY DEVELOPMENT PROGRAMME

On  
**"Innovative Research Methodologies in Social Sciences: Enhancing Faculty Competence for the 21<sup>st</sup> Century"**  
June 25 to 30, 2025

**Organised by**  
Internal Quality Assurance Cell  
(I.Q.A.C.)  
Sariya College, Suriya  
In  
Online Mode  
Medium: Google Meet  
Link- <https://meet.google.com/qhm-qjajwtd>

**Time: 06:30 PM To 07:15 PM**

**Sub-Theme**

1. Qualitative and Quantitative Research Integration
2. Use of ICT and Digital Tools
3. Participatory and Community Based Research Methods
4. Applications of big data analytics in socio-economic studies
5. Emerging Trends like AI, machine learning, and sustainability-focused research
6. Public-Engaged Research and Impact Assessment
7. Using digital tools (e.g., NVivo, H, Python) for qualitative and quantitative analysis.
8. Ethical Challenges in Modern Social Science Research: like data privacy, consent, and ethical considerations in digital research
9. Social Media Analysis, Thematic Analysis, and Content Analysis: Exploring Divergent Approaches to Interpret Qualitative Data.

**Inauguration by**  
Prof. (Dr.) Chandra Bhushan Sharma  
Vice Chancellor  
Vinoba Bhave University, Hazaribag

WORKSHOP SCHEDULE		
DATE	RESOURCE PERSON	FOCUS AREA
Day -01 June 25, 2025	<b>Prof (Dr) Bimal Kumar Mishra</b> Principal, Adarsh College, Rajdhanwar, V.B.U. Hazaribag	Artificial intelligence
Day -02 June 26, 2025	<b>Dr. Saroj Kumar Singh</b> Associate Professor, Univ. Dept. of Geography, V.B.U. Hazaribag	Importance of Research and Research Methodology
Day -03 June 27, 2025	<b>Dr. Saroj Kumar Singh</b> Associate Professor, Univ. Dept. of Geography, V.B.U. Hazaribag	Ethics in Research
Day -04 June 28, 2025	<b>Dr. Saroj Ranjan</b> Associate Professor, Dept. of Management, V.B.U. Hazaribag	Literature review, Data collection
Day -05 June 29, 2025	<b>Dr. Saroj Ranjan</b> Associate Professor, Dept. of Management, V.B.U. Hazaribag	Hypothesis testing
Day -06 June 30, 2025	<b>Dr. Bhubneshwar Kumar Mandal</b> Assistant Professor, Dept. of Geography S.U. College, Hilsa (Patliputra University, Patna)	Qualitative and Quantitative Research Integration

<b>Convener</b> <b>Dr. Shilesh Mohan</b> Assistant Professor Sariya College, Suriya	<b>Organizing Secretary</b> <b>Asit Diwakar</b> IQAC Coordinator Sariya College, Suriya	<b>Principal</b> <b>Dr. Santosh Kumar Lal</b> Sariya College, Suriya
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## **Day-01**

**Inauguration by**  
**Prof. (Dr.) Chandra Bhushan Sharma**  
Vice Chancellor  
Vinoba Bhave University, Hazaribag

**Resource Person: - Prof (Dr) Bimal Kumar Mishra**  
Principal, Adarsh College, Rajdhanwar, V.B.U. Hazaribag

**Focus Area:** Artificial Intelligence

**Date: -** June 25, 2025

**Mode: -** Online (Google Meet)

**Time: -** **06:30 P.M. To 08:15 P.M.**

**Total Number of Participants- 55**

Sariya College, Suriya permanently affiliated with Vinoba Bhave University, Hazaribag, inaugurated its six-day Online Faculty Development Programme (FDP) on June 25, 2025. This event, organized by the Internal Quality Assurance Cell (IQAC), aims to promote innovative research approaches and enhance faculty competence across the country.

The inaugural session was graced by Prof. (Dr.) Chandra Bhushan Sharma, Hon'ble Vice Chancellor of Vinoba Bhave University, who delivered the inaugural address. Dr. Sharma emphasized that Jharkhand, in comparison to other states, still lags in research output and innovation. He inspired faculty members to adopt interdisciplinary and digital-based research practices.

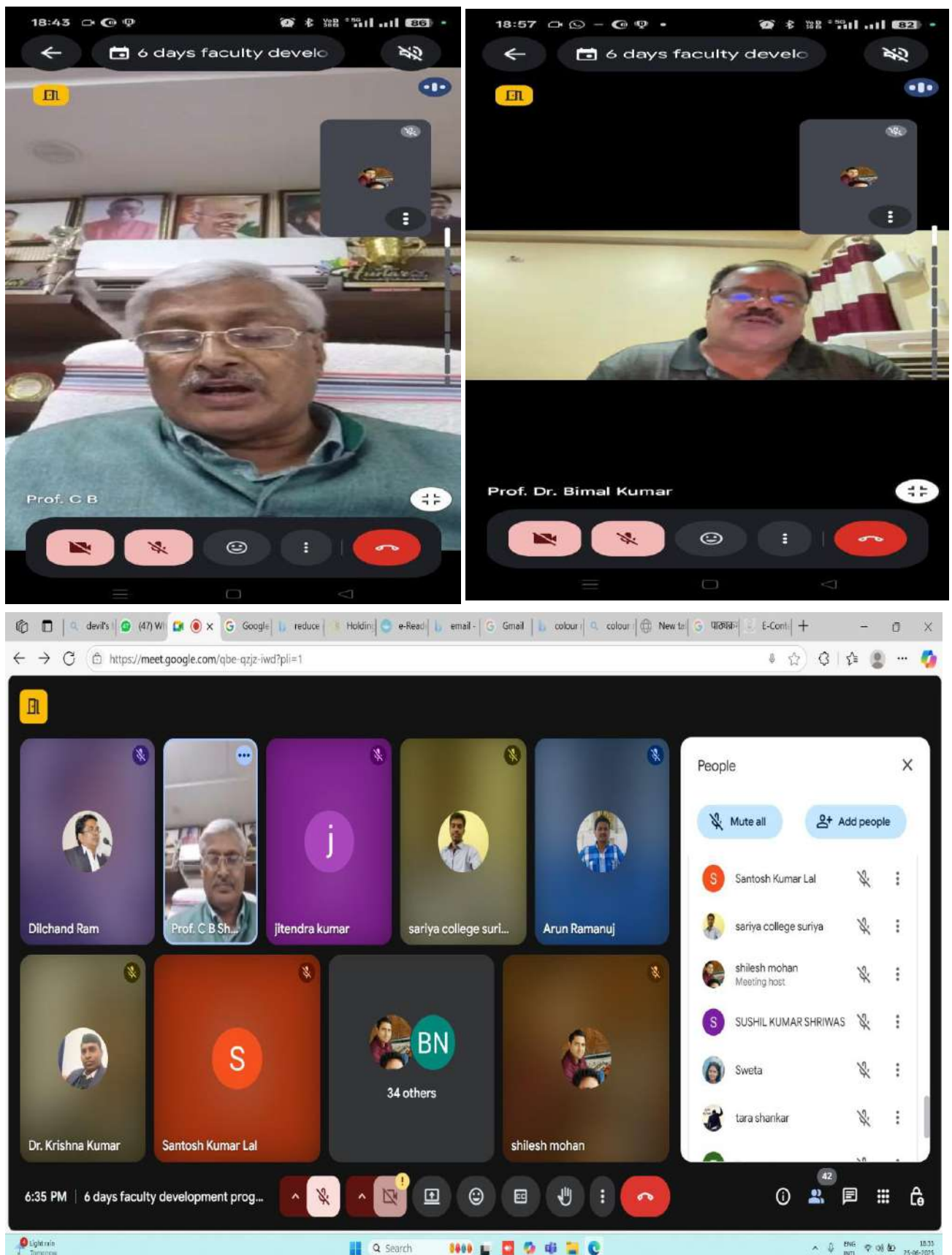
Importantly, he highlighted the need to inculcate the art of asking questions among students and research scholars, considering it vital for academic growth. He also motivated teachers to explore research in diverse fields beyond traditional boundaries.

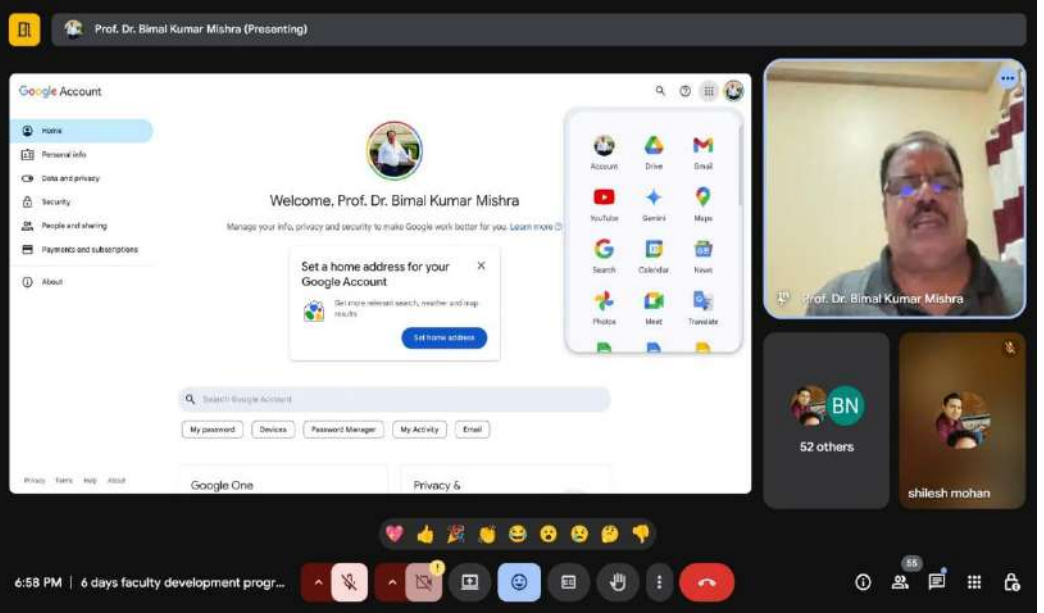
The keynote session of the day was delivered by Prof. (Dr.) Bimal Kumar Mishra, Principal of Adarsh College, Rajdhanwar, V.B.U. Hazaribag, who spoke on the topic "Artificial Intelligence". He encouraged the participants to venture into multidisciplinary and socially impactful research areas that go beyond narrow academic silos.

Dr. Mishra also urged faculty members to explore emerging research domains such as Big Data, Machine Learning, GIS, and Digital Tools, particularly within the realm of social sciences.

The event witnessed participation from over 55 faculty members across India, including states like Meghalaya, Andhra Pradesh, Nagaland, Rajasthan, and West Bengal. Their engagement and enthusiasm made the session highly interactive.

The Welcome Address was presented by Dr. Sweta, while the Vote of Thanks was delivered by Mr. Arun Kumar. The programme is being convened by Dr. Shilesh Mohan, Assistant Professor, Sariya College, under the leadership of Principal Dr. Santosh Kumar Lal.





## **Day-02**

**Resource Person:** **Dr. Saroj Kumar Singh**  
Associate Professor  
Univ. Dept. of Geography, V.B.U. Hazaribag

**Focus Area:** Importance of Research and Research Methodology

**Date:** - June 26, 2025

**Mode:** - Online (Google Meet)

**Time:** - 06:30 P.M. To 08:00 P.M.

### **Total Number of Participants- 55**

The second day of the ongoing six-day Faculty Development Program commenced with a warm welcome address by Mr. Asit Diwakar, IQAC Coordinator and Organizing Secretary of the FDP. He greeted all participants and introduced the distinguished speaker for the day, Dr. Saroj Kumar Singh, Associate Professor, University Department of Geography, Vinoba Bhave University, Hazaribag.

Dr. Singh delivered an insightful and thought-provoking lecture on “Importance of Research and Research Methodology.” He emphasized that research is not just an academic exercise but a powerful tool that drives human progress. He shared that even though we are all geographically distant, we are still able to interact through this online FDP — a remarkable achievement of human research and innovation.

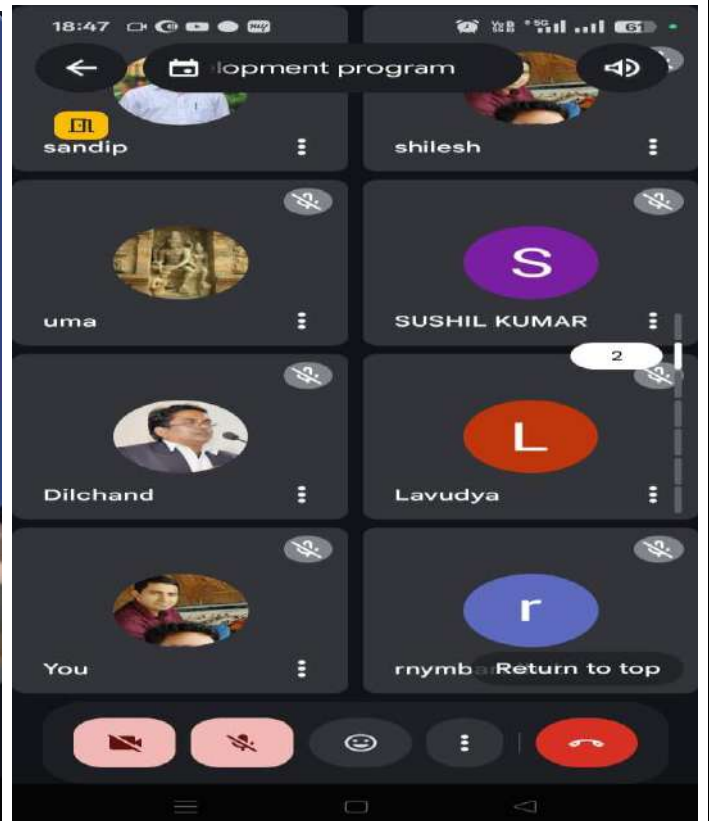
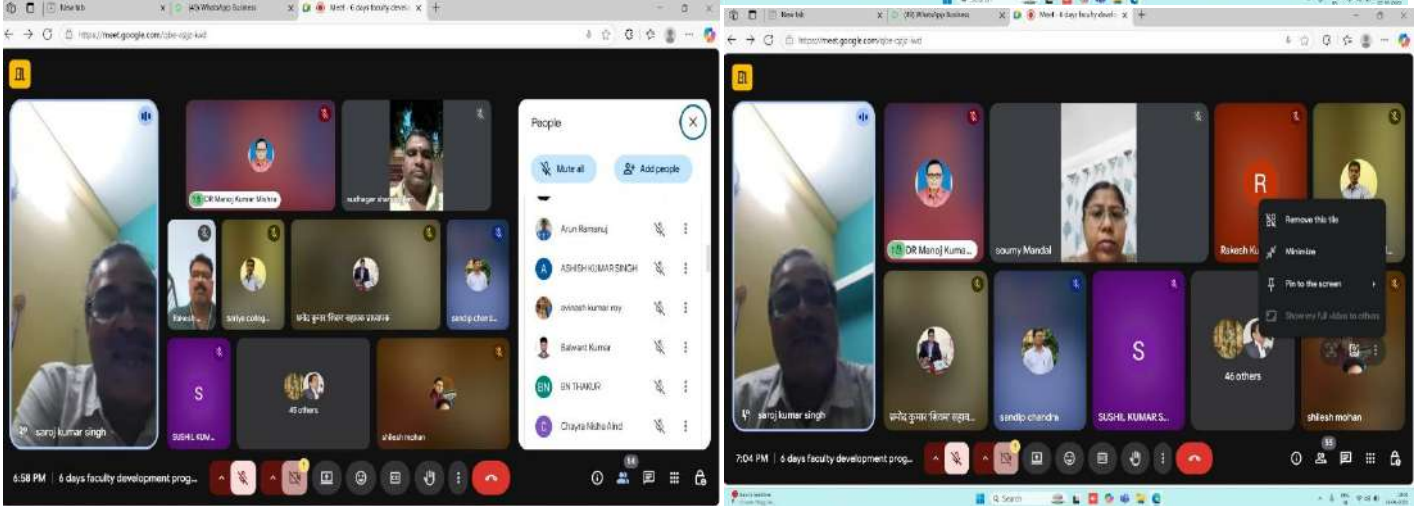
He stated that research is like an ornament for a teacher, and Ph.D. is the doorway to the world of research. According to him, the progress of human civilization has been possible only due to research. Despite being physically weaker than many other species, humans have been able to dominate and shape the environment — a direct result of scientific inquiry and research.

Dr. Singh suggested that colleges should promote entrepreneurship and skill development as practical ways to nurture a research environment and encourage innovation among students and faculty.

While explaining research methodology, he defined it as the systematic method of collecting and analyzing data. He elaborated on various types of methodologies and highlighted how selecting the right approach is essential to producing meaningful and authentic outcomes in social science research.

The session was interactive and highly engaging. Participants posed several relevant questions, and Dr. Singh answered them with clarity and depth, drawing from real-life research experiences.

The session concluded with a formal vote of thanks by Sri R.K. Mishra, who appreciated Dr. Saroj Kumar Singh's scholarly contribution and insightful inputs. He also acknowledged the active participation of attendees and thanked the organizing team and technical support for the smooth execution of the session.



## **Day-03**

**Resource Person:** **Dr. Saroj Kumar Singh**  
Associate Professor  
Univ. Dept. of Geography, V.B.U. Hazaribag

**Focus Area:** Ethics in Research

**Date:** - June 27, 2025

**Mode:** - Online (Google Meet)

**Time:** - 06:30 P.M. To 08:00 P.M.

**Total Number of Participants-** 66

The third day of the Faculty Development Program was held on June 27, 2025, and the session began with a brief and thoughtful introduction of the day's resource person by Dr. Shilesh Mohan, Assistant Professor and Convener of the FDP.

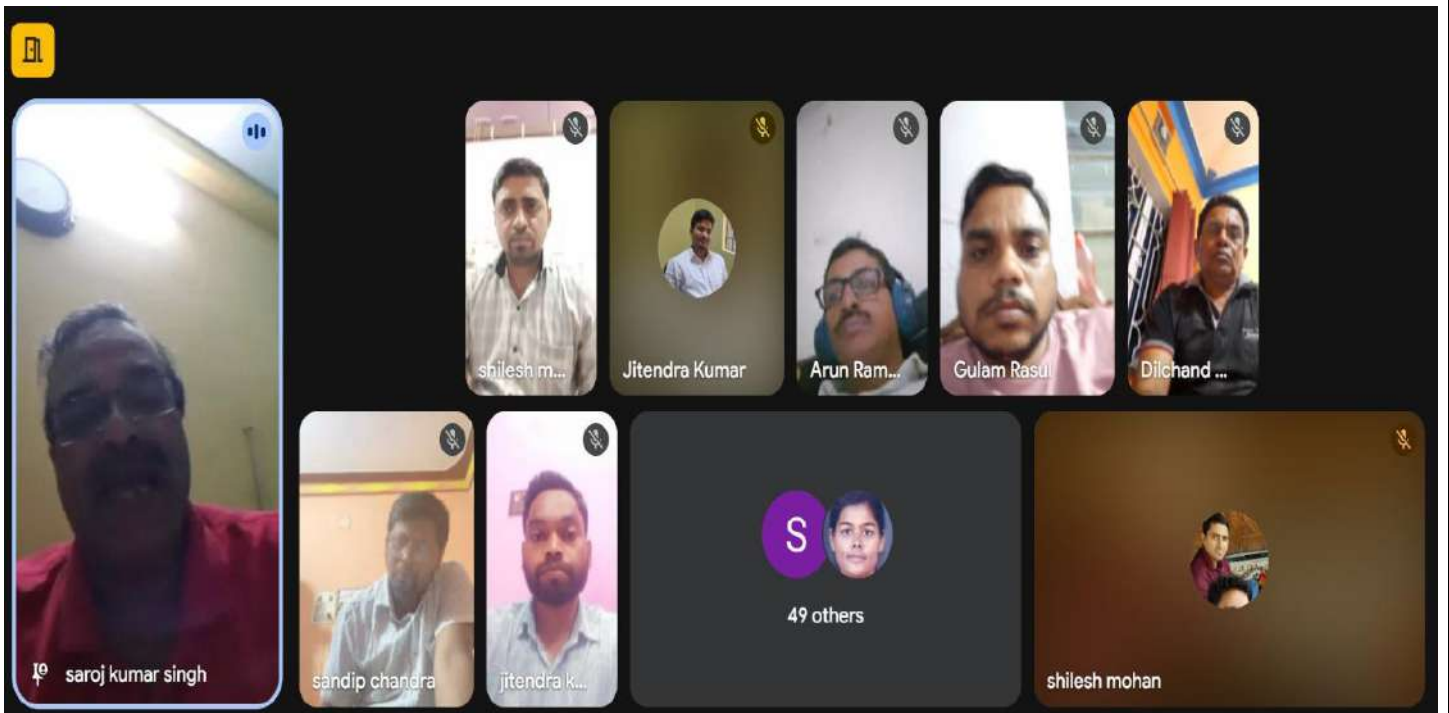
The speaker for the day was Dr. Saroj Kumar Singh, Associate Professor, University Department of Geography, Vinoba Bhave University, Hazaribag. He delivered a highly engaging and intellectually enriching lecture on the topic "Ethics in Research".

Dr. Singh began by emphasizing that our moral values reflect in our behaviour, and these values differ at personal and societal levels. He explained that any behaviour that does not harm any individual or being is considered ethical. Extending this principle to the field of research, he highlighted the critical need for ethical conduct in all stages of research.

- He elaborated on 20 key ethical principles essential in research practices. These included:
  - Honesty
  - Neutrality
  - Integrity
  - Respect for intellectual property
  - Generosity
  - Confidentiality
  - Respect for human dignity
  - Responsible mentorship
  - Care for animals
  - Respect for colleagues in research. etc.

These principles were explained with relevant examples and practical perspectives, making the session informative and applicable for academic professionals.

The session concluded with a formal vote of thanks by Sri Jitendra Kumar, who appreciated Dr. Saroj Kumar Singh for shedding light on the essential yet often overlooked aspect of research—ethics. He also extended his gratitude to all the participants, organizers, and technical support team for the smooth conduct of the session.



## **Day-04**

**Resource Person:** **Dr. Saroj Ranjan**  
Associate Professor  
Dept. of Management, V.B.U. Hazaribag

**Focus Area:** Literature review and Data collection

**Date:** - June 28, 2025

**Mode:** - Online (Google Meet)

**Time:** - 06:30 P.M. To 08:15 P.M.

**Total Number of Participants-** 66

The fourth day of the Faculty Development Program commenced with a warm and graceful introduction of the resource person by Miss Chayra Nisha Aind, Assistant Professor, Sariya College, Suriya. She welcomed all participants and introduced the guest speaker, Dr. Saroj Ranjan, Associate Professor, Department of Management, Vinoba Bhave University, Hazaribag.

Dr. Ranjan delivered a highly informative and focused lecture on the topic “Literature Review and Data Collection”. He emphasized the significance of literature review as the foundation of any research work, highlighting how it helps in identifying research gaps, refining the research problem, and framing relevant hypotheses.

He discussed various sources and strategies for conducting an effective literature review, including the use of academic databases, scholarly journals, and citation management tools. He also explained the importance of critical reading, analysis, and synthesis of existing research.

Further, Dr. Ranjan elaborated on data collection techniques, both qualitative and quantitative. He covered key aspects such as primary and secondary data, sampling methods, designing questionnaires, and conducting interviews or surveys. He stressed the ethical considerations in data collection and the importance of accuracy and authenticity in handling data.

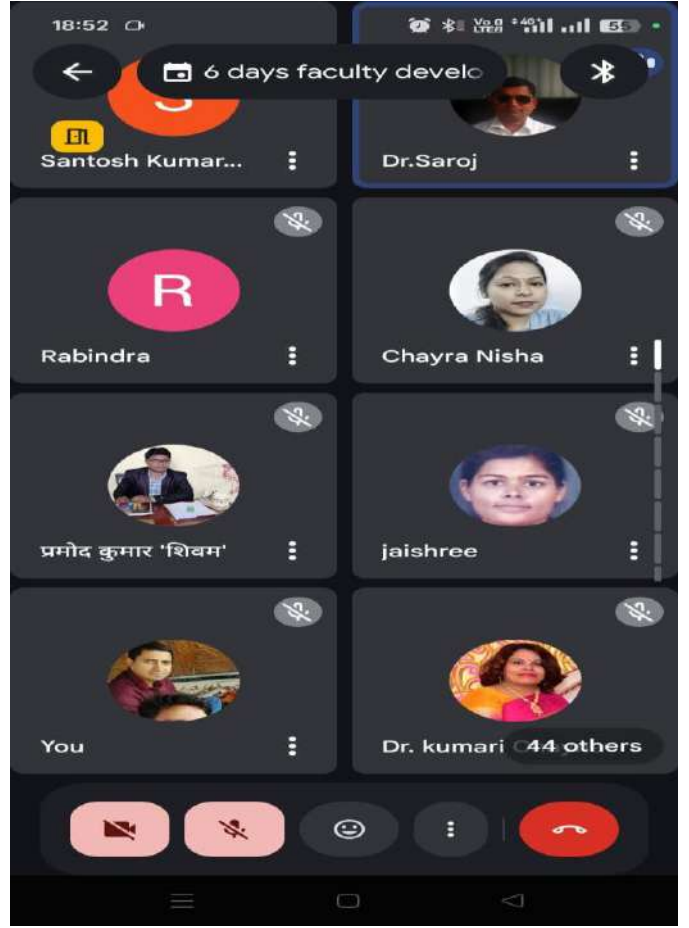
The session was interactive, and several participants engaged in discussions regarding challenges faced during data collection and review of literature. Dr. Ranjan provided practical insights and suggestions, making the session especially useful for early-stage researchers and faculty members.

The day’s session concluded with a heartfelt vote of thanks by Dr. Pramod Kumar, who appreciated Dr. Saroj Ranjan for his enriching and structured presentation. He also extended gratitude to the organizing committee, technical team, and participants for their enthusiastic cooperation and presence.

6:34 PM | 6 days faculty development progr...

6:36 PM | 6 days faculty development progr...

6:47 PM | 6 days faculty development progr...



## **Day-05**

**Resource Person:** **Dr. Saroj Ranjan**  
Associate Professor  
Dept. of Management, V.B.U. Hazaribag

**Focus Area:** Hypothesis Testing

**Date:** - June 29, 2025

**Mode:** - Online (Google Meet)

**Time:** - 06:30 P.M. To 08:15 P.M.

**Total Number of Participants-** 54

The fifth day of the Faculty Development Program began with a warm and graceful introduction by Miss Alka Rani Jojo, Assistant Professor, Sariya College, Suriya. She introduced the day's resource person, Dr. Saroj Ranjan, Associate Professor, Department of Management, Vinoba Bhave University, Hazaribag.

Dr. Ranjan conducted a comprehensive and insightful session on "Hypothesis Testing", a core aspect of research methodology. He explained that a hypothesis is a testable assumption—a predictive statement made at the beginning of research that must be empirically validated. Using relatable examples from everyday life, Dr. Ranjan explained the difference between independent and dependent variables, and how their relationships form the basis of hypothesis formulation and testing.

**He discussed the types of hypotheses, such as:**

- Simple and complex hypotheses
- Null and alternative hypotheses
- Directional and non-directional hypotheses

Through analogies like "eating more green vegetables improves health," or "switching off the fan affects airflow," he clarified how researchers must design studies to test whether such assumptions hold true. He emphasized that proper hypothesis testing is key to drawing valid conclusions and contributes significantly to academic rigor.

The session also covered the importance of identifying moderating and intervening variables, and how they influence the relationship between primary variables in research.

Participants engaged in the session actively, asking questions related to variable selection, hypothesis formulation, and statistical testing. Dr. Ranjan answered them with clarity and practical examples, making the technical content accessible and engaging.

The session concluded with a heartfelt vote of thanks by Dr. Ashish Kumar Singh, who appreciated Dr. Ranjan's deep insights and practical approach. He also acknowledged the sincere participation of all attendees and the continuous efforts of the organizing team in making the FDP a success.





## **Day-06**

**Resource Person:** **Dr. Bhubneshwar Kumar Mandal**  
Assistant Professor, Dept. of Geography  
S.U. College, Hilsa (Patliputra University, Patna)

**Focus Area:** Qualitative and Quantitative Research Integration

**Date:** - June 30, 2025

**Mode:** - Online (Google Meet)

**Time:** - 06:30 P.M. To 08:00 P.M.

**Total Number of Participants-** 56

The sixth and final day of the Faculty Development Program began with a warm welcome and introduction by Dr. Shilesh Mohan, Assistant Professor and Convener of the FDP. He introduced the day's distinguished resource person, Dr. Bhubneshwar Kumar Mandal, Assistant Professor, Department of Geography, S.U. College, Hilsa (Patliputra University, Patna).

Dr. Mandal delivered a highly enriching lecture on the topic "Integration of Qualitative and Quantitative Research". He explained in detail the significance of qualitative research, which focuses on understanding human behavior, interpreting experiences, and examining social phenomena in depth.

**He highlighted key points such as:**

- Qualitative research deals with words, images, and subjective understanding.
- It seeks answers to "why" and "how" questions.
- It often uses smaller, focused samples instead of large-scale datasets.

Dr. Mandal emphasized the growing popularity of qualitative research due to its flexibility, cost-effectiveness, and richness of data. He explained how it allows researchers to gain deeper insight into context-based social realities.

**He discussed various qualitative data collection techniques such as:**

- Focus Group Discussions
- In-depth Interviews
- Projective Techniques

He further stressed that the integration of both qualitative and quantitative methods leads to more holistic and impactful research outcomes. The session was informative and practical, especially for researchers aiming to blend both approaches in their academic work.

Following the academic session, a formal closing ceremony was held. The Chief Guest, Dr. Vibha Pandey, Deputy Director, Department of Higher and Technical Education, addressed the participants. In her valedictory speech, she appreciated the initiative taken by Sariya College and emphasized the need for such faculty development programs to enhance research competencies among educators. She encouraged faculty members to embrace innovation in research and contribute meaningfully to academic development in the region.

The session concluded with a heartfelt vote of thanks by Dr. Pramod Kumar, who expressed sincere gratitude to Dr. Bhubneshwar Kumar Mandal for his thought-provoking lecture. He also acknowledged the efforts of the organizing committee, technical team, and enthusiastic participation of all attendees for making the six-day FDP a grand success.



**BHUBNESHWAR KUMAR MANDAL (Presenting)**

**QUALITATIVE RESEARCH**

Criteria	Focus	Depth	Projective
1. Degree of abstraction	High	Low	High
2. Degree of generality	Low	High	Low
3. Degree of subjectivity	High	Low	High
4. Degree of objectivity	Low	High	Low
5. Degree of inductive reasoning	High	Low	High
6. Degree of deductive reasoning	Low	High	Low
7. Degree of empirical evidence	Low	High	Low
8. Degree of theoretical orientation	Low	High	Low

**QUANTITATIVE RESEARCH SURVEY**

**SURVEY METHOD**

- STRUCTURED QUESTIONNAIRE
- SELECTED SAMPLE OF A POPULATION
- DESIGNED TO GAIN SPECIFIC INFORMATION

Santosh Kumar Lal

Vibha Pandey

sandip chandra

45 others

shilesh mohan

7:14 PM | 6 days faculty development p...

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Quick search

ENG IN 19:14 30-06-2025

**BHUBNESHWAR KUMAR MANDAL (Presenting)**

**QUALITATIVE RESEARCH**

Criteria	Focus	Depth	Projective
1. Degree of abstraction	High	Low	High
2. Degree of generality	Low	High	Low
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5. Degree of inductive reasoning	High	Low	High
6. Degree of deductive reasoning	Low	High	Low
7. Degree of empirical evidence	Low	High	Low
8. Degree of theoretical orientation	Low	High	Low

**QUANTITATIVE RESEARCH SURVEY**

**SURVEY METHOD**

- STRUCTURED QUESTIONNAIRE
- SELECTED SAMPLE OF A POPULATION
- DESIGNED TO GAIN SPECIFIC INFORMATION

Santosh Kumar Lal

Vibha Pandey

46 others

shilesh mohan

7:13 PM | 6 days faculty development p...

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Quick search

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**BHUBNESHWAR KUMAR MANDAL (Presenting)**

**QUALITATIVE RESEARCH**

- Qualitative research is a method of inquiry employed in many different areas of research, including in the social sciences, the natural sciences, and the humanities.
- Qualitative researchers are generally interested in understanding the meaning and context of human experiences, rather than in testing hypotheses or in measuring variables.
- Qualitative research is often used to explore a topic or to generate hypotheses for further research.
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Reeti Debnath

sandip ch...

प्रमोद कुमार 'शिवम' सहाय...

Bharati Narayan

Dr. Badal Rakshit

SUSHIL KUMAR SHRIWAS

Dr. kumari Chayna Dey

38 others

shilesh mohan

6:52 PM | 6 days faculty development ...

33°C Mostly cloudy

Quick search

ENG IN 18:53 30-06-2025