



**Brief Report of  
An One Week (ONLINE) FDP  
on**

**TOOL CONSTRUCTION & RESEARCH PUBLICATION PROCESS**

Organised by the Department of Education,  
Guru Ghasidas Vishwavidyalaya, Bilaspur (C.G.)

**Date of Event :** October 09 - 13, 2023

**Venue :** Online through Google Meet

**Total Registration Fee collected:** 73,100/-

**Total fund generated:** 57, 100/-

**A ONE-WEEK ONLINE FDP  
ON  
TOOL CONSTRUCTION & RESEARCH  
PUBLICATION PROCESS**

Organised by  
**Department of Education, Guru Ghasidas  
Vishwavidyalaya, Bilaspur ( C.G.)  
from October 09 - 13, 2023**

**REGISTRATION LINK**  
<https://forms.gle/TDdaE11kfuuWr8Et5>

**Account Details:**  
Bank Name: State Bank of India  
Account Name: REG GURU GHASIDAS  
UNI BILASPUR  
Account number: 37137162271  
IFSC Code: SBIN0018879

**VENUE: ONLINE THROUGH  
GOOGLE MEET LINK**

**REGISTRATION FEE**  
300/- FOR FACULTY MEMBERS  
AND 250/- FOR RESEARCH  
SCHOLARS.

**CONTACT PERSON**  
DR SAMBIT KUMAR PADHI  
(8328860946) & DR JYOTI  
VERMA (9977293393)

[rceducation096@gmail.com](mailto:rceducation096@gmail.com)

This FDP aims to shed light on the importance of tool construction and research publication in shaping the landscape of academic progress.

**Topics Covered During the FDP are-**

1. Fundamentals of tool construction
2. Types of Tools: Questionnaire, Test, Scale, Inventory, Observation Schedule
3. Steps of tool construction
4. Likert methods for tool construction
5. Reliability and Validity: Concept, Types, methods of calculation
6. EFA and CFA and finalisation of tools
7. Preparing manuals and Norms establishment.
8. Targeting and selecting journals for publication (Scopus, Web of Science, and Pub Med etc.)
9. AI Tools for research and publication
10. Publication ethics

**Target Participants:** All the faculty members, research scholars, and PG students are eligible to apply.  
e-Certificate will be provided to all the registered participants

**Registration Fee:**  
300/- for faculty members and 250/- for research scholars.

**Registration:**  
Registration can be done only by online mode

**Registration Link**  
<https://forms.gle/TDdaE11kfuuWr8Et5>

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DR JYOTI VERMA (9977293393)

**Programme brochure**

**Details of Event Proceedings**

| Date<br>(DD-MM-YYYY) | Details of the Session | Details of Resource Person   | Number of Participants |
|----------------------|------------------------|--|------------------------|
| 09/10/2023           | Session I              | Prof. K.S. Mishra, Retired Professor, Department of Education, University of Allahabad | 279                    |
| 09/10/2023           | Session II             | Professor, Bhaskar Mukharjee, Libraan, Banaras Hindu University,                       | 279                    |



|                         |                           | Varanasi  |     |
|-------------------------|---------------------------|---|-----|
| 10/10/2023              | Session III & IV          | Prof. D. Suar, Chairperson, Social Science Research, KIIT University Bhubaneswar, Odisha  | 279 |
| 11/10/2023 & 12/10/2023 | Session V, VI, VII & VIII | Dr. Sitanshu Sekhar Das Assistant Professor, Indian Institute of Management (IIM), Shilong  | 279 |
| 13/10/2023              | Session IX                | Dr. Mohit Garg, Assistant Librarian, IIT, New Delhi   | 279 |
| 13/10/2023              | Session X                 | Dr. A. K. Singh, Associate Professor, Department of Pure and Applied Physics, Guru Ghasidas Vishwavidyalaya, Bilaspur, Chhattisgarh | 279 |

### **A Brief Abstract of the Event**

Department of Education, Guru Ghasidas Vishwavidyalaya, Bilaspur, Chhattisgarh has organised an one week (Online) FDP on "TOOL CONSTRUCTION & RESEARCH PUBLICATION PROCESS" on October 9-13, 2023. The Convener of the FDP was Prof. C. S. Vazalwar, Head, Department of Education, Guru Ghasidas Vishwavidyalaya, Bilaspur (C.G.), and Dr. Sambit Kumar Padhi, Associate Professor, Department of Education, Guru Ghasidas Vishwavidyalaya, Bilaspur (C.G.) and Dr. Jyoti Verma, Assistant Professor, Guru Ghasidas Vishwavidyalaya, Bilaspur (C.G.) were the coordinators of the programme. The FDP was organized through google meet.

The objectives of the FDP was-

1. Understand the importance of tool construction in research
2. Identify the different types of tools used in research and their construction process.
3. Understand the steps involved in designing development and standardisation of different types of tools.
4. To select the appropriate tool for a particular research question
5. To use Exploratory Factor Analysis (EFA) and Confirmatory Factor Analysis (CFA) to finalise a tool.
6. To establish reliability, validity and norms of particular tool.
7. To select the appropriate journal for a particular research paper
8. To use AI tools to improve the quality of research and publication
9. To avoid plagiarism and other forms of research misconduct

The participants of the FDP were faculty members of higher education institutions and research scholars. A total of 279 participants have participated in the FDP.

The programme started with the formal welcome of the resource person by Mrs. Tulika Rai, research scholar, Department of Education, GGV, Bilaspur. The resource person for first session of the FDP was Prof. K. S. Mishra, retired Professor, University of Allahabad.

All participants of the programme were awarded the certificate of participation. The topics Covered During the FDP were-

1. Fundamentals of tool construction
2. Types of Tools : Questioner, Test, Scale, Inventory, Observation Schedule
3. Steps of tool construction
4. Likert methods for tool construction
5. Reliability and Validity: Concept, Types, methods of calculation
6. EFA and CFA and finalisation of tools
7. Preparing manuals and Norms establishment. publication ethics
8. Targeting and selection of journal for publication (Scopus, Web of Science, and Pub Med etc.)
9. AI Tools for research and publication
10. Publication ethics.

At the end of FDP participation certificate was awarded to the participants.



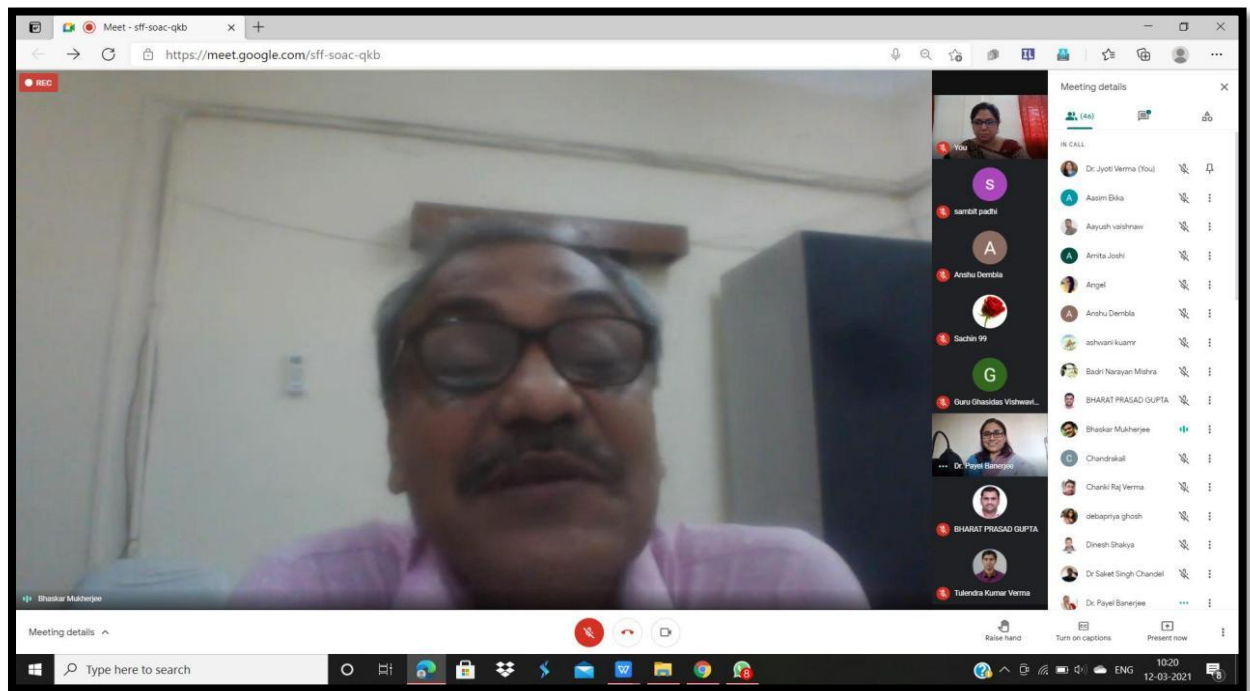
**Prof. C. S. Vazalwar, convener of the FDP along with Prof. D. Suar of the session resource person of the session and participants**



गुरु घासीदास विश्वविद्यालय  
(केन्द्रीय विश्वविद्यालय अधिनियम 2009 क्र. 25 के अंतर्गत स्थापित केन्द्रीय विश्वविद्यालय)  
कोनी, बिलासपुर - 495009 (छ.ग.)



Guru Ghasidas Vishwavidyalaya  
(A Central University Established by the Central Universities Act 2009 No. 25 of 2009)  
Koni, Bilaspur - 495009 (C.G.)



**Prof. Bhaskar Mukharjee, Librarian, Banaras Hindu University, Varanasi( II Session Resource Person)**

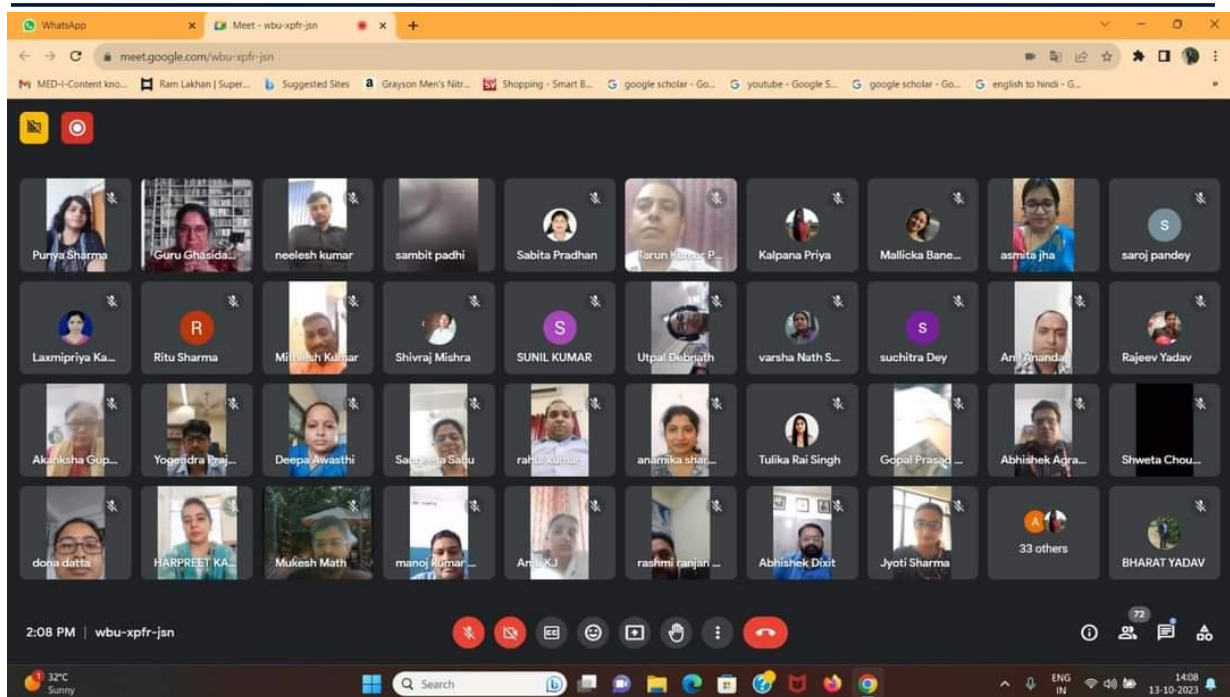


**Dr. Mohit Garg, Assistant Professor, Librarian , IIT, Delhi along with participants.**

गुरु घासीदास विश्वविद्यालय  
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Dr. Jyoti Verma, Coordinator of the workshop was given vote of thanks to the participants in valedictory session.

Head  
Department of Education  
Guru Ghasidas Vishwavidyalaya  
Bilaspur (C.G.)