



राजीव गांधी राष्ट्रीय युवा विकास संस्थान

RAJIV GANDHI NATIONAL INSTITUTE OF YOUTH DEVELOPMENT

क्षेत्रीय कार्यालय, चंडीगढ़/Regional Centre, Chandigarh

राष्ट्रीय महत्व का सांस्थान/Institution of National Importance

युवा कार्यक्रम और खेल मंत्रालय, भारत सरकार/ Ministry of Youth Affairs and Sports, Govt. of India

CAPACITY BUILDING PROGRAMME ON RESEARCH METHODS & DATA SOURCES

07-08 February 2023

Programme Report

Organized by

Department of Development Studies

RGNIYD Regional Centre, Chandigarh

Convenor of the Workshop

Dr. Niyathi R. Krishna, Assistant Professor, DDS

Co-Convenors

Rimpi Arora & Keerat Pal Kaur, Guest Faculty, DDS

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Programme Report

Introduction

The Department of Development Studies organised a “*Workshop on Research Methodology*” during 19-20 December 2022 at Rajiv Gandhi National Institute of Youth Development (RGNIYD), Regional Centre, Chandigarh to expose the students of MA Development Studies to research methodologies used in Development Studies; to enable them to have better understanding regarding the research process such as problem formulation, framing the methodology, data collection, data analysis and report writing; and to acquaint students with ethical concerns in research. In continuation to the successful completion of the workshop, a Capacity Building Programme on Research Methods and Data Sources were organised during 07-08 February 2023 to equip the students to understand the nature and context of research; to provide insight into existing data resources that can be used to conduct research in development studies; to familiarise various data collection tools and techniques; and introduce different steps involved in data analysis.

Summary of the Programme

The programme began with the **Inaugural Session** in the First Day. In the first thematic session titled “**Introduction to Research**”, **Dr. Bidhan Chandra Dash**, Assistant Professor, School of Liberal Studies, Ambedkar University, New Delhi spoke about *The Concept of Research*. He has discussed in detail how data creation has resulted in legal and policy formulations from 18th Century onwards.

The second Thematic Session titled “**Review of Literature**” was delivered by **Dr. Neeraj Kumar Singh**, Deputy Librarian, Panjab University, Chandigarh in the afternoon, where in, he has extensively talked about tools and techniques for collecting relevant literature, format and structure of a good research paper, journals, data management and preservation and open sources.

The second day of the Capacity Building Programme started with a recap of the previous day by Dr. Niyathi R. Krishna, Coordinator of the Workshop. This was followed by the third Thematic Session titled “**Data Collection**”. **Dr. Ritesh Kumar** and **Dr. Rishemjit Kaur**, Principal Scientists, CSIR-CSIO, Chandigarh have delivered lectures on Tools and Procedures of Data Collection, Sampling Techniques, Survey Methods & Questionnaire Designing

In the fourth and last session themed “**Data Analysis**”, **Dr. Shandar Ahmad**, Professor, School of Computational and Integrative Sciences, JNU, Delhi talked about Data warehouse, Data attributes, measuring of data and the steps for modern data analytics. The two days programme came to an end with **Valedictory Session** and Distribution of certificates to the participants.

DETAILED REPORT

I. INAUGURAL SESSION

The programme began with the inaugural session at 10am by the welcome speech delivered by **Dr. Niyathi R. Krishna**, Assistant Professor, DDS & Co-ordinator of the Programme. **Dr. Bidhan Chandra Dash**, Assistant Professor, School of Liberal Studies, Ambedkar University, New Delhi, delivered the Inaugural address, wherein, he has stressed on the importance of curiosity and questioning in undergoing research. **Dr. P. Sivakumar**, Head, DDS, in his Special Address talked about the need and significance of research ethics in making a research work a meaningful exercise. The session ended by the Vote of thanks delivered by **Ms. Rimpi Arora**, Guest Faculty and Co-coordinator of the Programme.



THEME 1: INTRODUCTION TO RESEARCH (11AM-1PM)

SPEAKER: Dr. Bidhan Chandra Dash

Assistant Professor, School of Liberal Studies, Ambedkar University, New Delhi

The First Session on Theme 1 started after the tea break at 11 am. The speaker **Dr. Bidhan Chandra Dash**, Assistant Professor, School of Liberal Studies, Ambedkar University, New Delhi, began by discussing the role of numbers, data and statistics in doing research with two short videos. He has also pointed out that research should be carried out of curiosity followed by questions. He has discussed on objectivity verses subjectivity, the translation of concepts to variable, the significance of hypothesis in research design, types of hypothesis and testing of hypothesis. Further, the queries from the participants were clarified by the speaker followed by discussion. The session ended with the Vote of Thanks proposed by **Mr. Abuthahir S**, 1st semester student, DDS.



II. THEME 2: REVIEW OF LITERATURE (2-4 PM)

SPEAKER: Dr. Neeraj Kumar Singh

Deputy Librarian, Panjab University, Chandigarh

In the afternoon, the second thematic area “Review of Literature” was covered by **Dr. Neeraj Kumar Singh**, Deputy Librarian, Panjab University, Chandigarh. **Mr. Raja Kourav**, 1st semester student, DDS, welcomed and introduced the speaker. Dr. Neeraj has started his session with Research Paper Writing and Publishing in Quality Indexed journals where has discussed how researchers can write and publish scholarly articles and covered topics such as Research - Process, problem & questions; objectives; and review of literature followed by live demonstration of some online tools to select right journal for research paper. He

has also talked about in detail about managing research data and online sources for searching primary and secondary data, including various online tools for managing primary and secondary data, online resources which are useful for researchers in searching primary and secondary data with live demonstration. This was followed by Question-Answer session. First Day one came to an end with vote of thanks proposed by **Mr. Farhab**, 1st semester student, DDS.



III. THEME 3: DATA COLLECTION (10 AM-1 PM)

SPEAKERS: Dr. Ritesh Kumar and Dr. Rishemjit Kaur

Principal Scientists, CSIR-CSIO, Chandigarh

The second day of the workshop started with a recap of the previous day by **Dr. Niyathi R. Krishna**, Coordinator of the Workshop. **Ms Devapriya TP**, 1st semester student, DDS, delivered the Welcome Address and introduced the speakers for the Third Theme “Data Collection”. Dr. P. Sivakumar, Head, DDS stressed on the scope of digital humanities and AI discourse. The resource person of the session 5 of the theme 3 “Data Collection”, **Dr. Ritesh Kumar**, Principle scientist, CSIR-CSIO, Chandigarh, started the session with an introduction to data collection strategies and different data collection methods. He also talked about the different approaches to data collection, and the complexity of data. The 6th Session was handled by **Dr. Rishemjit Kaur**, Principle scientist, CSIR-CSIO, Chandigarh, with an introduction to sample and sampling techniques. She also talked about surveys and the different methods of doing surveys. Then she has deliberated on different types of questionnaires. After the students completing a survey online, the session came to an end with **Ms Fathima HR**, 1st semester student, DDS, proposed vote of thanks.



IV. *THEME 4: DATA ANALYSIS (2-4PM)*

SPEAKER: Dr. Shandar Ahmad

Professor, School of Computational and Integrative Sciences, JNU, Delhi

The Afternoon session began at 2PM. **Mr Mohd. Yasin**, 1st semester, DDS, welcomed and introduced the speaker **Prof. Shandar Ahmad**, Professor, School of Computational and Integrative Sciences, JNU, Delhi, He has started this session themed “Data Analysis” with a story followed by certain questions and then interrelated physics, mathematics and data analytics and explained about how these are related to each other. He, then, emphasised on forms of data for mining applications. Further he discussed upon various types of data attributes and explained about different types of modern data and about what are the steps of modern data analytics. Dr. Shandar further stressed upon measurement of dispersion of data and how significant role does measuring dispersion plays in data analysis. He concluded with Data visualisation, followed by Q&A session with the participants. The session ended with the Vote of Thanks proposed by **Ms. Dishashri**, 1st semester student, DDS.



V. VALEDICTORY SESSION

The programme came to an end with the Valedictory Session. **Dr. P Sivakumar**, Head, DDS, welcomed the gathering. This was followed by a special address by **Dr. P. Sahoo**, Associate Professor, DDS. In his speech, he has mentioned about the constraints of research in the previous decades and the evolution of various research methods over time. The program report was presented by **Dr. Niyathi R Krishna**, Assistant Professor, DDS & Coordinator of the programme. Afterwards, the faculty members have distributed the certificates to the participants. The session ended with the Vote of Thanks proposed by **Ms. Keerat Pal Kaur**, Guest Faculty, DDS.



PHOTO GALLERY









BANNER



Capacity Building Programme on Research Methods and Data Sources

07-08 February 2023

PROGRAMME SCHEDULE

Time (am-pm)	Theme/Session		Speaker
DAY-1			
Inaugural Session			
10:00-10:45	Invocation Song		
	Welcome Address	Dr. Niyathi R. Krishna, Assistant Professor, DDS	
	Inaugural Address	Dr. Bidhan Chandra Dash Assistant Professor, School of Liberal Studies, Ambedkar University, New Delhi	
	Special Address	Dr. P. Sivakumar, Head, DDS	
	Vote of Thanks	Ms. Rimpi Arora, Guest Faculty, DDS	
10:45-11:00	Tea Break		
Theme 1: Introduction to Research			
11:00-12:00	Session-1 An Introduction to Concept of Research		Dr. Bidhan Chandra Dash Assistant Professor, School of Liberal Studies, Ambedkar University, New Delhi
12:00- 13:00	Session-2 Hypothesis		

13:00-14:00	LUNCH BREAK	
Theme 2: Literature Review		
14:00-15:00	Session-3 Research - Process, Problem, Questions, Objectives	Dr. Neeraj Kumar Singh Deputy Librarian, Panjab University, Chandigarh
15:00-15:15	TEA BREAK	
15:15-16:15	Session-4 Review of literature, Archival sources of data & Online research database	
16:15-17:00	Group Work	
DAY-2		
Theme 3: Data Collection		
10:00-11:15	Session-5 Tools and Procedures of Data Collection	Dr. Ritesh Kumar Principal Scientist, CSIR-CSIO, Chandigarh
11:15-11:30	TEA BREAK	
11:30-13:00	Sesion-6 Sampling Techniques, Survey Methods & Questionnaire Designing	Dr. Rishemjit Kaur Principal Scientist, CSIR-CSIO, Chandigarh
13:00-14:00	LUNCH	
Theme 4: Data Analysis		
14:00-15:00	Session-7 Data Processing, Representation and Analysis	Dr. Shandar Ahmad Professor, School of Computational and Integrative Sciences, JNU, Delhi
15:00-15:15	TEA BREAK	
15:15-16:15	Session-8 Data Feeding, Scaling, Editing, Coding and Processing	
Valedictory Session		
16:15-17:00	Welcome Address	Dr. P. Sivakumar, Head, DDS
	Valedictory Address	Dr. P. Sahoo, Associate Professor, DDS
	Report of the Programme	Dr. Niyathi R. Krishna, Assistant Professor, DDS
	Vote of Thanks	Ms. Keerat Pal Kaur, Guest Faculty, DDS
	Distribution of Certificates	