SKILL CERTIFICATE COURSE ON "RESEARCH METHODS & SPSS FUNDED BY RUSA 2.0."

Report submitted to



Skill Development Centre, BEICH RashtriyaUchchatarShikshaAbhiyan (RUSA 2.0) Bharathiar University

Submitted by

Dr.S.Sampath Kumar Principal Investigator Professor & Head, Dr. N. R. Suresh Babu Co-Principal Investigator Professor



DEPARTMENT OF SOCIOLOGY &POPULATION STUDIES BHARATHIAR UNIVERSITY COIMBATORE-641 046 TAMIL NADU, INDIA

Date: 01-07 February 2021

INVITATION

Inaugural Programme



BHARATHIAR UNIVERSITY COIMBATORE – 641046



RASHTRIYA UCHCHATAR SHIKSHA ABHIYAN 2.0

SKILL CERTIFICATE COURSE

On





RESEARCH METHODS AND SPSS WORKSHOP FOR RESEARCH SCHOLARS IN SOCIAL SCIENCES

Under

Skill Development Centre, BEICH- RUSA 2.0

Skill Development Programme on Research Methods and SPSS Workshop for Research Scholars in Social Sciences (01.02.2021-07.02.2021)

Inaugural Programme: 01.02.2021, Monday

11.00 am - 11.05 am : Welcome Address Dr.S. Sampath Kumar Professor and Head Department of Sociology & Population Studies Bharathiar University, Coimbatore-46 11.00 am - 11.15 am : Inaugural Address Prof.Dr.P.Kaliraj Honourable Vice-Chancellor Bharathair University, Coimbatore-46 11.15 am -11.25 am : About Workshop Dr.N.R.Suresh Babu Professor Department of Sociology & Population Studies Bharathiar University, Coimbatore-46 11.25 am - 11.35 am : Chief Guest Address Dr.Gurram Srinivas, Professor, Centre for the Study of Social Systems, Jawaharlal Nehru University, New Delhi **Keynote Address** 11.35 am - 11.45 am Dr.NagarajuGundemeda, Professor, Department of Sociology, University of Hyderabad, Hyderabad : Felicitation Address 11.45 am -11.55am Dr.Rupa Gunaseelan Professor and Coordinator (SDC, BHICH, RUSA 2.0) Bharathiar University, Coimbatore-46 11.55 am - 12.00 pm : Vote of Thanks Dr.N.R.Suresh Babu Department of Sociology & Population Studies Bharathiar University, Coimbatore-46

ABOUT BHARATHIAR UNIVERSITY

The Bharathiar University, named after the great national poet SubramaniaBharathi, enshrined with the motto "Educate to Elevate" was established in the year 1983 under the Government of Tamil Nadu. Bharathiar University is public and state funded University. The University is ranked as 13th among the Indian Universities by NIRF and Re-Accredited with 'A' grade by NAAC. The University has 39 departments in campus, dedicated to teaching and research consisted in 13 schools, including a school of Distance Education. All schools/departments are managed by highly qualified and well experienced faculty members. The University is an affiliating type, recognized by University Grants Commission (UGC), a member of the Association of Indian Universities (AIU) and Common Wealth Universities. Bharathiar University is housed with 131 affiliated colleges which include Government Colleges, Constituent Colleges, PG Extension Centre, Aided Colleges, Self-Financing Colleges and Stand-alone Institutions of M.B.A. and M.C.A. The aim of the University is to participate in the task of inculcating necessary Knowledge, Skills and Creative Attitudes and values among the youth of the country to contribute more effectively towards establishing an equitable social and economic and secular ideal of our nation.

ABOUT THE DEPARTMENT OF SOCIOLOGY AND POPULATION STUDIES

TheDepartment of Sociology has its historical roots in the Department of Social Sciences, which was established in 1966 during the Vice–Chancellorship of late Sri LakshmanaswamyMudhaliar. Regular faculty in Sociology for the positions of Reader and Lecturer were appointed in the year 1969.

Notably, the PG centre in Coimbatore was founded in 1974 by the University of Madras. The Department of Sociology was established in 1976, at the time of the Honourable Vice-Chancellor, Dr.Malcom S. Adiseshiah, University of Madras and Dr.C.M.Abraham headed the Department with the following faculties Dr.Lakshman Singh, Dr.U.R.Kaliappan, and Dr.T.Chandramohan Reddyduring the years 1978-1987. He brought a remarkable growth in teaching, research and also made the students aware of the contemporary problems during his journey to the department. The Department of Sociology functioned as a separate wing from 1976 to 2006 and then merged with Population Studies in 2006. Since its inception the department is offering post graduate and research programmes.

ABOUT THE SPPS WORKSHOP

The Department of Sociology and Population Studies has conducted a Seven day online workshop and skill certificate course on "RESEARCH METHODS & SPSS" which has been funded by RUSA 2.0 of Bharathiar University, Coimbatore. In the Inaugural address itself, the Outline and Structure of the programme was delivered by Dr. N.R.SureshBabu, Professor, Department of Sociology and Population Studies, Bharathiar University who was the Co-Principal Investigator along with Dr. S.Sampath Kumar, Head of the Department of Sociology and Principal Investigator. Moreover Prof. N R. Suresh Babu explained the importance of the workshop for the Research scholars and for those who have been pursuing M.A degree& Doctoral research and noted that if the quality of the research is to be achieved, SPSS plays an important role in providing insight into various research methods, tools and techniques with a high degree of accuracy. In recent years, the application of SPSS has progressed to a multilevel stage, where it is being used in transdisciplinary settings and allowing us to achieve accurate results.

MODE OF CONDUCT

The Skill development Programme was scheduled for 7 days with 18 sessions comprehending various topics under the research methodology. It was conducted online mode through Google meet. Every day minimum of 3 sessions was conducted and maximum of 4 sessions. Each resource person was invited through proper channels as by emails and personal telephone calls one week prior to the programme. Resource person conducted the session/lecture to the minimum of one hour thirty minutes (1 hr. 30 minutes) to maximum of three hours (3 hrs.). The session feedback and five questions from topic of lecture delivered by the resource persons were collected to conduct a test at end of all the sessions.

REGISTRATION

The forms for the SPPS workshop were shared through WhatsApp and E-Mail to students, research scholars and faculty members of various departments Bharathiar University to register for the workshop. The registration was made through online mode and a total of 100 participants have registered for the webinar.

THE WEBINAR / SPSS WORKSHOP

DAY 1 (01.02.2021):UNDERSTANDING RESEARCH METHODS AND SPPS WORKSHOP FOR RESEARCH SCHOLARS

WELCOME ADDRESS



The first day of the webinar began at 11.00 am with the introduction and welcome address by Dr. S. Sampath Kumar, Professor and Head, Department of Sociology and Population Studies, Bharathiar University. The Head initiated the programme by welcoming the Vice-Chancellor of Bharathiar University Prof.Dr. P. Kaliraj, Prof.Dr.GurramSrinivas, Professor, Centre for the study of Social Systems, Jawaharlal Nehru University,New Delhi,Prof.Dr.NagarajuGundemeda, Professor,Department of Sociology, University of Hyderabad, Hyderabad, Prof.Dr.RupaGunaseelan, Co-ordinator RUSA 2.0, Bharathiar University, Dr.N.R.SureshBabu Professor and Dr.G.Prabakaran,Dr.P.PhamilaJesinthaRajee, Dr.VandanaM.V,Guest faculties, Department of Sociology and Population Studies, resource persons and the participants of the webinar.

INAUGURAL ADDRESS



The Inaugural Address for the webinar was offered by the Hon'ble Vice Chancellor of Bharathiar University, Prof.Dr. P. Kaliraj. The Vice-Chancellor highlighted the importance of the usage of Research methods and SPPS Software in the field of Social Science. Also, the Vice-Chancellor emphasized the importance and application of sociological knowledge in the current scenario. Dr. P. Kaliraj congratulated the organizers for the webinar and wished them for a grand success.

ABOUT THE WORKSHOP



The crux of the workshop programme was delivered by Dr. N.R. Suresh Babu, Professor, Department of Sociology and Population Studies, Bharathiar University. He explained the importance of the workshop for Research scholars and those who are pursuing M.A degree. He also added that in order to achieve the quality of research, SPPS plays avital role in providing insight into various research methods, tools and techniques with a high degree of accuracy. In recent years, the application of SPPS has progressed to a multilevel stage where it is being used in transdisciplinary settings and allowing us to achieve scrupulous results.

CHIEF GUEST ADDRESS



The Chief Guestaddress was presented by Dr.GurramSrinivas, Professor, Centre for the Study of Social Systems, Jawaharlal Nehru University, New Delhi. He explained the impact of social science research specifically sociological research in Indian Academics on approaching social problems from the perspective of qualitative and quantitative to mixed method approaches.

KEYNOTE ADDRESS



The Keynote addressfor the webinar was offered by Dr.NagarajuGundemeda,Professor, Department of Sociology, University of Hyderabad, Hyderabad. He highlighted the high demand for the use of theories and methodology and the way it should be reformed and updated in doing contemporary research. Thus by conducting the SPPS workshop, the Department of Sociology and Population Studies of Bharathiar University is taking the responsibility to mould the buddingsocial scientists.

FELICITATION ADDRESS

Felicitation Address was offered by Dr.RupaGunaseelan, Co-ordinator RUSA 2.0, Bharathiar University.

VOTE OF THANKS

Vote of Thanks wasdeliveredbyDr.N.R.SureshBabu, Professor, Department of Sociology and Population Studies, Bharathiar University. He thanked all the dignitaries and eminent professors from various disciplines who supported the workshop and made it happen as well as he had highlighted the importance of the SPPS workshop.

Session 1 (01.02.2021)

Topic : Mixed Method Research with Triangulation

Speaker : Dr. GurramSrinivas, Professor, Centre for the Study of Social

Systems, Jawaharlal Nehru University, New Delhi.



The first session was handled by Dr. GurramSrinivas during which he had explained the various methods of how to use the qualitative as well as the quantitative techniques in performing social science research. Also he had illustrated the importance of the mixed method techniques which has paved the way for transformations in the approaches towards the social problems by social scientists. Inclusion of triangulation and mixed method research was highlighted and explained with contemporary examples. There were questions from the listeners with regard to the topic being presented thus enhancing the quality of the workshop.

Session 2 (01.02.2021)

Topic : Paradigm in Social Research

Speaker : Dr.AntonyPalackal, Associate Professor and Head, Department of

Sociology, University of Kerala, Kerala.



In the second session Dr.AntonyPalackalgave an insight on the social science paradigms and also emphasis on the difficultieshe had come across as a sociologist in understanding the philosophy of social science. Then he criticizedthe emerging trend among the scholars while approaching the social issues with pre-determined technique of choosing either qualitative or quantitative methods and insisted that this trend has to be rectified and the researcher should focus more in to the quality and production of the new knowledge through their research.

Session -3 (02.02.2021)

Topic : InterpretativePhenomenological Analysis

Speaker :Dr. Biju Vincent, Associate Professor and Head, Department of Sociology,

University of Kerala, Kerala



The third session was ledby Dr. Biju Vincent. He commencedthe session with the concern for the position of sociology as a discipline in the Indian social academics with specific reference to South Indian academics. He believes it is not because of the quality and quantity of sociologists in the South Indian academics but it is the quantitative approach which over powers of the philosophy of the knowledge. Furthermore, he elucidated the importance of philosophical understanding in regard to the Interpretative Phenomenological Analysis in the sociological studies and how a researcher needs to look at the problems from the perspective of the phenomenological approach.

Session - 4 (02.02.2021)

Topic : Collecting and Analysing Data in Focus group Research

Speaker : Dr. S. Sumathi, Professor & Head (Retd.)Department of

Anthropology, University of Madras, Chennai.



The Fourth session washandled by Dr.S.Sumathi with her vision of implying micro perspectives. Being a trained anthropologist, she had explained how and why a researcher has to choose and conduct the field work research by way of focus group methodologyespecially while approaching the communities and cultures and what a researcher should do with the data which is collected through the focus group methodologies and how it should be used to generate results. This in consequence may lead in carrying out new study. Explaining her respective studies in various junctures, the session impelled a finer understanding of the concept.

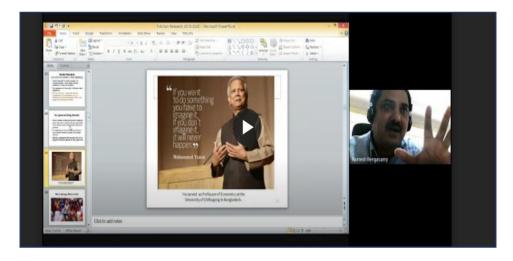
Session - 5 (03.02.2021)

Topic : Action Research

Speaker: Dr. R Ramesh, Associate Professor& Head, Centre for Rural

Infrastructure, National Institute of Rural Development & Panchayati

Raj, Hyderabad



The fifth day session was handledby Dr.R.Ramesh who initiated the session by asking how to conduct a research and how to bring about the results that emphasize and concerns in the benefit of the society. He added that the researcher must make sure that they are research mind practitioners as their studies should reflect their ideas and be result oriented rather than just creating a new philosophical understanding.

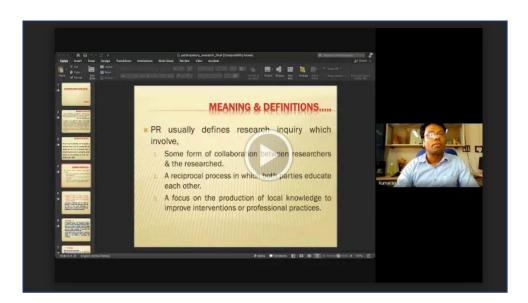
Session -6 (03.02.2021)

Topic : Participatory Research

Speaker : Dr. Kumaran, Assistant Professor & Director, Centre for studies in

Sociology, Department of Gandhian Thought and Peace Science,

Gandhigram Rural Institute, Gandhigram, Dindigul



On the Sixth day, the session was ledby Dr. Kumaran by explaining how Participatory Research helps in reaching a lot more people by conducting one's own research as the study focus on the production of the local knowledge to improve interventions or professional practices. Throwing light on his study experience in various junctures, a clear understanding was gained about Participatory Research as being a reciprocal process in which both parties educate each other.

Session - 7 (03.02.2021)

Topic : Doing Ethnography in Contemporary Times

Speaker :Dr. Ratheesh Kumar, Assistant Professor, Centre for the Study of Social

Systems, Jawaharlal Nehru University, New Delhi



The Seventh day session was handledby Dr. Ratheesh Kumar who started the session with addressing the new social change of pandemic and the possibilities of a researcher to explore the new normality from the research perspective. As the society itself is under transition, the emerging researches should break the conventional strategies and have to opt new area of doing research. On this juncture, the Ethnographic research would pave a novel dimension in approaching the research as well as the field. The micro perspective of the society and conducting an in-depth understanding explores in creating the research more interesting and informative rather than going by the conventional rituals.

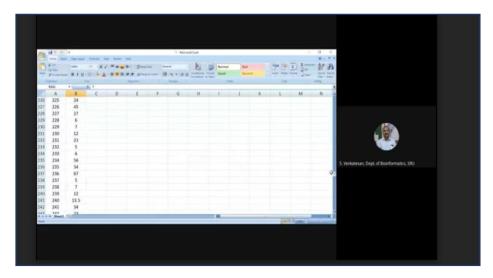
Session -8 &9 (04.02.2021)

Topic : Do's &Don't s in data preparation & Steps in Analysing data with SPSS

Speaker: Dr. S. Venkatesan, Senior Lecturer in Mathematics, Department of

Bioinformatics, SriRamachandra Institute of Higher Education

andResearch (DU), Porur, Chennai-600116



Dr. S. Venkatesan led the eighth session. First,he concentrated on how to analyze qualitative data which is where researchers often make mistakes. Second, he explained in a realistic session how to use SPSS and then spoken upon data processing to the researchers, which had enlightened them. He also included the audience in the explanation of SPSSalong with Microsoft Excel and Google Forms.

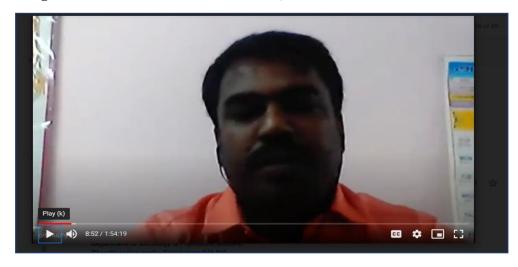
The ninth session continued with the explanation of the measures in the data review with SPSS. With the aid of relevant literature, pilot studies, rules of thumb estimates and an online sample size calculator, he demonstrated how a researcher can arrive at sample size in life sciences. The session was more engagingas he concentrated more on the questions that were being askedby the students and researchers.

Session-10 (04.02.2021)

Topic : Quantitative Research Tools- Development and Analysis

Speaker : Dr. G. Pitchaimani, Lecturer in Sociology, Sri Ramachandra Institute of

Higher Education and Research (DU), Chennai



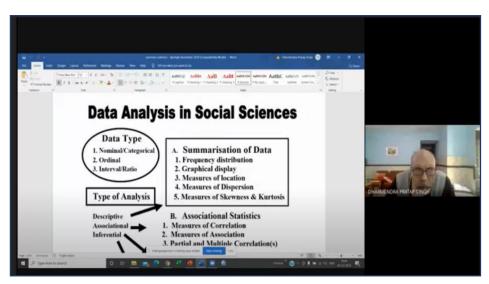
On this day, Dr. G. Pitchaimani delivered the session about Quantitative research tools- Development and analysis where he introduced the significance and usage of scales in the Social science research. He made the researchers to get rid of the stereotyped understanding of scales that were said to be used only in Psychology or Socio-Psychological research. As the trend is changing in the Social Science research and especially at present, Sociological researchers are developing and making their study and research with the help of scales. He added that though the framing of scale item takes time but still as a sociologist, one has to make sure that it is reliable and valid to one's own research.

Session-11 & 12 (05.02.2021)

Topic : Data analysis in Social sciences & Quantitative data and interpretation

Speaker : Dr. D. P. Singh, Professor and Associate Dean, School of Research

Methodology, Tata Institute of Social Sciences, Deonar, Mumbai 400 088



Professor D. P. Singh's lecture explained how data can be analyzed using SPSS with help of a Power-Point Presentation. He invited students to participate and asked questions, and he continued the lectures based on their answers. He went on to say that the researcher should know what data they have and what types of data they possess, such as nominal/categorical and ordinal, interval/ ratio and also what form of analysis should be performed when conducting research, whether descriptive, empirical or inferential.

Session -13 (05.02.2021)

Topic : Statistical methods & Hypothesis testing in SPSS

Speaker : Dr. KannanMahalingam, Former Principal, Madurai Institute of Social

Sciences, Madurai



Dr. KannanMahalingam started his lecture by presenting SPSS as a statistical methodology for data analysis in social science and went on to explain how the researcher could statistically use the data to draw conclusions. He had highlighted the common errors that researchers make when translating their data into results. He continued his lecture by explaining the role of hypothesis in research and how to view the hypothesis using statistical techniques such as SPSS.

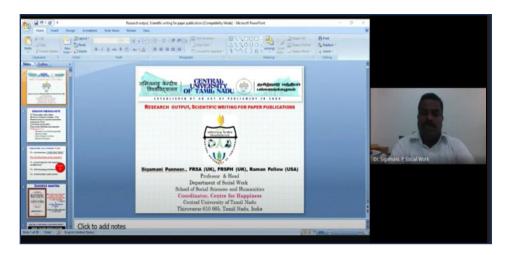
Session -13 & 14 (06.02.2021)

Topic : Content analysis & Research output, Scientific writing for paper

publications

Speaker: Prof. Dr.Sigamani Panneer, Professor & Head, Department of Social Work,

School of Social Sciences and Humanities, Thiruvarur-610 005, Tamil Nadu



Dr. SigamaniPanneer proposed the lecture by sharing his thoughts about how content analysis is both common and essential in today's world. He had shared numerous articles and documents related to the subject with the participants beforehand and they were asked to read to make the session interesting and realistic. Along with that, he has shared how to

use the literatures and how to write a good academic paper as well as work out. His second lecture focused on how researchers can use content analysis to concentrate on publishing articles. Apart from this, he shared his personal experiences as well as evidences of what he described which has been gathered and reviewed from different journals and documents.

Session -15 (06.02.2021)

Topic : Statistical tests & Graphics in SPSS

Speaker : Dr. Kathiresan. L Assistant Professor, Social Work Department, Assam

University, Silchar



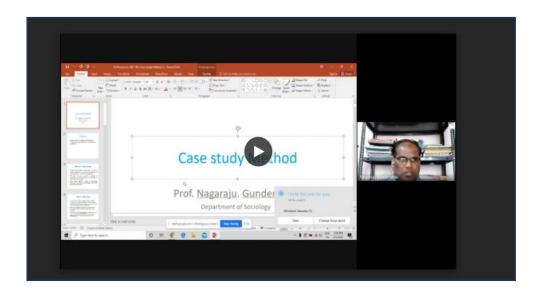
On this particular day, Dr. Kathiresan began his lecture by describing the steps involved in quantitative data collection, as well as how the data collected must be interpreted and analyzed. He listed out the steps and showed how the researcher had to use graphical representations, maps, and diagrams to present the findings. In the second session of the lecture, he interacted with the participants and focused on their doubts and questions. He added that the researcher must have a basic understanding of mathematics and logic in order to work with statistical analysis.

Session - 16 (06.02.2021)

Topic : Case study Analysis

Speaker: Dr. NagarajuGundemeda, Professor, Department of Sociology,

University of Hyderabad, Hyderabad



On this day, the lecture was given by Dr. NagarajuGundemeda who explained that a case study analysis is not merely descriptive rather it is a critical exercise, typically an examination of a situation or institution with the goal of making recommendations. Case study analyses are a common method used by social scientists to gain an understanding of the constraints involved in decision making. Cases are typically based on real-life circumstances, but the names of individuals and organizations can be modified for confidentiality purposes or for ethical reasons. With this, he explained how a researcher should compile events, examine them and interpret the findings.

Session -17 (07.02.2021)

Topic : Multivariable Analysis using SPSS

Speaker: Dr. Audinarayana N, Professor and Head, (Rtd). Dept. of Sociology

and Population Studies, Bharathiyar University, Coimbatore- 641 046



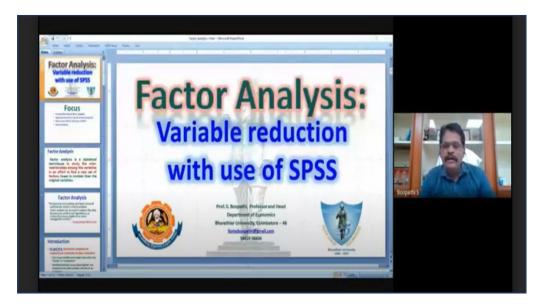
Dr. Audinarayana gave his lecture on Multivariable Analysis with SPSS. He began by describing the relevance of variable analysis in qualitative research using SPSS, as well as how it varies from other quantitative software techniques. He explained the Presentation PowerPoint where focused lecture using he on multiple regression. Multiple regression is an extension of simple linear regression which is employed when a researcher wishes to forecast the value of one variable based on the values of two or more other variables. The variable to be predicted is referred to as the dependent variable. The variables that are used to predict the value of the dependent variable are referred to as the independent variables (or sometimes, the predictor, explanatory or regress variables). Furthermore, multiple regression allows the researcher to determine the overall fit (variance explained) of the model as well as the relative contribution of each of t variables.

Session -18 (07.02.2021)

Topic : Factor Analysis

Speaker: Prof. L Boopathi, Department of

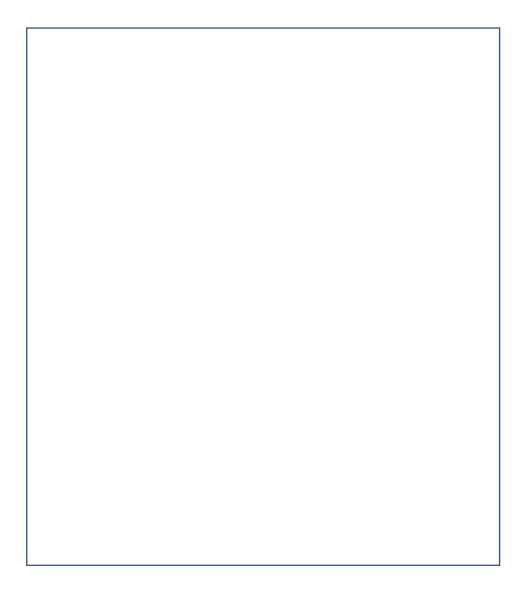
 ${\bf Economics,} {\bf Bharathiar University,} {\bf Coimbatore.}$



The last session of the workshop was by Dr. L Boopathibydefining factor analysis as a methodology for reducing a large number of variables into a smaller number of factors since this approach removes the highest common variance from all variables and incorporates them into a single score. This score might be used as an index of all variables for further study. He went on to illustrate how it is used in SPSS to define the fundamental factors which are measured by a (larger) number of observed variables viz. "underlying causes" that are

often difficult-to-measure variables like IQ, depression, or extraversion. He was inquisitive in answering the students' questions and explaining the concepts.

VALEDICTORY SESSION



The Seven day Skill Development and SPSS Workshop was concluded with the valedictory session which was held on 07.02.2021 afternoon from 4.15 pm onwards. The welcome address in the valedictory ceremony was delivered by Dr.N. R. Suresh Babu, Co-Principal investigator, SDCBEICH-RUSA 2.0 who had welcomed Dr. B.Ramaswamy, who is an eminent Social scientist holding various positions viz. Member of UGC Expert Committee, Member of National LokAdalat, Court of Delhi, Former Bench of Magistrate-JJACT, etc. who in his address proved both influential and inspiring for the audience.



In the presidential address, Dr. B Ramaswamybegun by explaining the Prime Minister's vision "No skill development that means no development for youth". He appreciated the efforts taken by the Department of Sociology, BharathiarUniversityto introduce and make an attempt to teach and train the students and researcherson the updated SPSS software, by incorporating the application of quantitative and qualitative methodology in a research work. He mentioned that the relevance of social science research should come up with interdisciplinary approach and on that context only the state shall benefit with the researches. As a spokesperson of the higher government officials with a great experience he underlines the statement by saying that the state needs new innovative thoughts for development which is possible only though the researches, where social science research has been indispensable. He emphasized the determinations and hardship of the Department of Sociology and the faculties who worked in behind during the pandemic situations and other difficulties which occurs while having the session in online modethrough which he recognizes the dedication of the department towards their students.



Valedictory address was given by Dr. A Vimala, Project director, RUSA 2.0, Professor and Head, Department of Extension and Career guidance, Bharathiar University. She started her valedictory address mentioning the work and efforts put forward by the Department of Sociology in conducting the skill development training on SPSS which is feat of dedication towards the students and subject. She recollected her experience in handling the booming research proposals which she receives without knowledge and interest in the subject. On this context, the department is giving training to students through eminent resource persons to make the students and researchers beable to handle research in a systematic way which is of great appreciation.



The Keynote address was given by Dr. Satheesh Kumar J, who is the Nodal officer for RUSA 2.0 and also the Associate professor in the Department of Computer Science, BharathiarUniversity. He applauded the efforts put forward by both the Principal Investigators who had undergone hardships in conducting the workshop and making it a successful event. He also mentioned the prominence of the social science research especially, skilled research techniques in the researches should be more entertained. The interactions with eminent professionals will help the students and researchers to shape their academic life as well as personal life in to heights.

FEEDBACK STATISTICS

Ms. Akhila Johnson, Research scholar, Department of Sociology and Mr. Joby Abraham, Research scholar, Department of Social work, both represented as representatives of students and gave their feedback with regard to the sessions that has been conducted and they expressed their gratitude towards the teachers and eminent scholars who conducted and delivered the lecture.

CERTIFICATES

E-Certificates were issued to participants on the successful completion of the webinar

CONCLUSION

The 7 days and 30 hours skill development programme on "Research Methods and SPPS Workshop for Research Scholars in Social Science" has been conducted through online mode organized by the Department of Sociology and Population Studies under the skill development centre BEICH-RUSA 2.0, Bharathiar University, Coimbatore. The department had the honour of delivering 18 sessions on various subjects by the distinguished resource persons from around the nation in the field of social science research. The workshop was a great success and the students and scholars certainly benefitted from it to pursue their research.