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Additional Information: Reports of Value Added Courses/ Programmes

A six-day National Workshop on Data Analysis using SPSS and EViews was organized by the Centre for Research, Innovation and Training, IIS (deemed to be University) from 24th February to 29th February 2020. The workshop commenced with the inaugural session on 24th February. Prof. K.S. Sharma, Director CRIT apprised the participants about the functioning of CRIT and objectives of the workshop. He further emphasized on the fact that this workshop was organized to address the challenges and opportunities in the field of research with the help of statistical software like SPSS and EViews. He also stated that the workshop will help the researchers to identify right analytical tool for conducting data analysis. In all 50 participants actively participated in the workshop.

Resource person for the 1st session was Prof. C.R. Bishnoi, Head, Department of Economics, IIS (deemed to be University). He elaborately discussed the importance of data analysis and its implementation in the respective domains. 2nd Session taken by Dr. Shweta Kastiya, Head, Department of Management Studies, IIS (deemed to be University), she demonstrated the functioning of SPSS including the following teachers like data entry for analysis, finding outliers, exporting and importing of data etc. Last session was taken by Dr. Vandana Sachdeva, Senior Assistant Professor, Department of Management. She discussed the concept of some features like select case, case split file and graphic presentation in SPSS software.

On 2nd day of the workshop, first three sessions were taken by Prof. C. R. Bishnoi, he covered the topic of Hypothesis Testing and the various parametric and non-parametric tests using SPSS. The last session of the day was hands on training on SPSS under the supervision of Dr. Shweta Kastiya.

Resource Person for day 3 and 4 was Dr. Seema Malik, Assistant Professor, Department of Commerce, Bhagat Phool Singh Mahila Vishwavidyalaya, she discussed the concept of Structural Equation Model (SEM) using AMOS and also taught the participants about how to compare the results of SPSS and AMOS. She also conducted a training session on exploratory factory analysis.

Training sessions on day 5 and day 6 was taken by Dr. Sunita Arora, Government College of Women, Rohtak. She gave hands on training on SPSS and Eviews covering the topics like; Regression Analysis, Multiple Regression, Time Series Analysis, Vector Auto Regression Model, Co-Integration Model, Ordinary Least Square Model and Auto Regressive Distributed Lag model.

I am sure, that the workshop was a learning experience for all the participants and the techniques learned over past 6 days will definitely help in improving the quality of research.

**Seven Days National Workshop On "Emerging Online Business In India"
(4 December-10 December 2019)**



The Department of Management Studies and the Department of Accounting & Taxation have organized A seven day national workshop on "EMERGING ONLINE BUSINESS IN INDIA" at IIS (deemed to be University), Jaipur from 4th December to 10th December 2019. The workshop was open for Undergraduate students, postgraduate students and research scholars from the stream of Commerce & Management. 34 students and research scholars participated in an event. Workshop aims at making the participants aware about various aspects and opportunities in online business in India. The following emerging issues were discussed by the renowned speakers

Topic :The Impact of Fintech on Community Banks

Speaker: Mr. Nitin Saxena (Branch Manager, HDFC)

Topic :Investment Avenues, Stock Market Price Behaviour

Speaker: Dr. V.K. Gupta (Associate Professor, UOR, Jaipur)

Topic : Portfolio Management: Risk and Return Analysis

Speaker: Dr. B.L. Gupta (Retired. Associate Professor, UOR, Jaipur)

Topic: Opening of Demat Account and Online Trading

Speaker: Dr. V.K. Gupta (Associate Professor, UOR, Jaipur)

Topic :The Global Derivative Market: Introduction & Practical Aspect

Speaker: Dr. B.L. Gupta (Retired Associate Professor, UOR, Jaipur)

Topic : Income tax for beginners

Speaker: CA Rajeev Sogani (Founder Partner, R.Sogani and Associates)

Topic: Global Scenario –GST a preferred tax structure

Speaker: CA Rajeev Sogani (Founder Partner, R.Sogani and Associates)

Topic : GST Implications: Gearing up for the change

Speaker: CA Rajeev Sogani (Founder Partner, R.Sogani and Associates)

Each session was followed with a structured process of brainstorming and information exchange. All the participants were awarded the certificate of completion. The Organising Secretaries of this workshop CA Priya Jain (Department of Accounting and Taxation) and Dr. Neha Sarin (Department of Management) presented their Vote of Thanks. At the end, Workshop Director Professor M.K. Sharma congratulated the organizing committee and the participants for the successful completion of the workshop.

"Seven day workshop on Advanced Techniques in Biological Sciences"

6 December to 12 December 2016

The Centre for Research, Innovation and Training (CRIT) of the IIS University successfully organized a **"Seven day workshop on Advanced Techniques in Biological Sciences"** from 6 December to 12 December 2016 for post graduate students, research scholars of Biosciences. 19 participants attended the workshop.

Each day there was three sessions in the workshop. The inaugural lecture was delivered by Dr. Biswarup Basu Assistant Professor, Amity University Noida. His talk was on the elementary knowledge of animal cell culture, he enlightened the participants about the protocols necessary for cell culture technique. In the second session he imparted hands on training how to revive cells for cell culture, followed by the sub culturing technique in the next session.

Day 2 of the workshop started with the cell proliferation technique, its visualization and analysis. Next session the participants performed the MTT assay which was followed by result interpretation in the last session.

Day 3 of the workshop started with the lecture of Dr. Sobha Bhargava, Professor Department of Zoology, from SavitriBhai Phoolke Pune University. Her lecture was on various histological preparation and immuno-histochemistry. She shared her research experience and the do's and don'ts in histology. In the next session she imparted hands on training on the tissue processing of immune-histological sections.

Day 4 the participants continued the processing of immuno-histological sections, followed by histochemical section preparation and the result analysis. She also provided hands on training how to perfect the processing of histological tissue preparations.

Day 5 started with the lecture of Dr. Vivekananda of Malviya National Institute of Technology Jaipur. He talked on the generation of bioenergy and the production of

biogas. It was followed by demonstration of measurement of biogas in the laboratory.

Day 6 of the workshop was started with the lecture of Dr. Nidhi Gupta, she delivered lecture on plasmid DNA isolation technique, PCR and Agarose gel electrophoresis. It was followed by DNA isolation from plasmid of E.coli, then subjected to PCR for amplification and then the product formation is analyzed by agarose gel electrophoresis.

In the Last day of the workshop, participants learned the technique of SDS PAGE for identification of proteins from blood sample.



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**A Report
on
National Workshop on
RESEARCH METHODOLOGY
for
Research Scholars and Young Faculty Members
In
Commerce & Management and Social Sciences
24 -30 November, 2016**

**Organized by
Centre for Research, Innovation and Training (CRIT)**

The Centre for Research, Innovation and Training (CRIT) of the IIS University, Jaipur organized a **“Seven-Day National Workshop on Research Methodology”** from 24 November to 30 November 2016 for research scholars and young faculty members in the IISU Campus. The workshop was inaugurated by Dr. Ashok Gupta, Vice Chancellor, The IIS University. The workshop was organised keeping in mind the need of the hour to improve the quality of teaching and learning process. The workshop commenced with an introductory remark of the basic purpose of the Workshop by Dr.SubhashGarg, Dean & Director, CRIT. The core objective of the workshop was to equip the research scholars with set of skills and potentiality to undertake the research very effectively in the disciplines of Commerce, Management and Social Sciences.

The workshop was designed to achieve the following objectives:

- To make the participants familiar with the basic concepts of Research Methodology.
- To familiarize the participants with the basics of data handling and analysis.
- To give hands on experience in Primary research to the participants through the practical work assigned to them.
- To enable the participants to develop research plan proposal.
- To enable the participants to develop quantitative and qualitative research skills.

The workshop brought together over 44 participants. The workshop focused on both qualitative and quantitative aspects of research. The workshop provided an interactive atmosphere between the resource persons and the participants. The workshop focused on helping participants to understand basics of research methodology with special emphasis on writing a research proposal. The workshop was handled by a team of eminent resource persons from the respective field. Some of the notable speakers were Dr. Balwinder Singh, Guru Nanak Dev University, Amritsar, Prof. Balkishan, Himachal Pradesh University, Shimla, Dr. Ramesh C Gaur, Jawaharlal Nehru University (JNU), New Delhi, Dr. Neeraj Kaushik, NIT, Kurkshetra, Dr. Sanket Vij, B.P.S. Mahila Vishwavidyalaya, Sonipat and Dr. Satish Kumar, MNIT, Jaipur. Dr. Poonam Madan was the convener of the workshop and Dr. Bhawana

Arya, Dr. Payal Mehtani, Dr. Mani Bhatia and Dr. R. K. Taylor were the co-convenors of the workshop.

The detailed report of the workshop is as follows:

Day 1

The first session of the workshop was conducted by Prof. Rashmi Jain, Vice Principal, University Maharani College, Jaipur who introduced the participants to the basic aspects of qualitative research, with a purpose of building a strong foundation within aspiring researchers. In her session, she discussed Grounded theory as a qualitative research approach. She talked about Ethnography as an extremely broad area with a great variety of practitioners and methods. However, the most common ethnographic approach is participant observation as a part of field research. She explained about ethno-methodology and stressed that interpretative understanding of the society is essential in order to draw generalizations. She concluded her lecture by highlighting the importance of qualitative research. This was followed by interactive session which proved to be enriching for all the participants.

The Resource person of the second session was Prof. Nisha Yadav, Controller of the Examination, The IIS University, Jaipur. She elaborated the philosophy of qualitative research and reflected on its various aspects. She also discussed the various methods of analysing and interpreting qualitative data. Major qualitative approaches were also introduced to the participants. She explained Critical Research as the notion which includes self-critique, a critical posture vis-a-vis qualitative inquiry itself.

The resource person for the technical session III&IV of Day I was Dr. Satish Kumar, MNIT, Jaipur. The discussion topic for his session was handling the Literature Review which is one of the most vital parts of the research endeavour. The steps to be followed for developing the Review of Literature in a structured fashion were discussed. He suggested that the researchers should read the book "Research Design" by Jennifer Walker to brush up their knowledge. He explained the uses of Mendeley as a free reference manager, data manager for citation for academic and social network. He threw light on online bibliographic programmes. He also

addressed several issues related to writing quality research papers. He explained about end notes and foot notes. He gave information about the requirements of a good article emphasized on its originality. He stated that researchers should make efforts to publish their articles only in peer reviewed and indexed journals. He explained about the steps of framing of paper and process of review of papers.

Day 2

Dr. Neeraj Kaushik, who is a renowned expert in the field of research methodology, was the resource person for the day. Dr. Neeraj Kaushik is currently working as Associate Professor in Department of Business Administration, National Institute of Technology, Kurukshetra. He explained about Exploratory, Descriptive and Experimental research. He discussed about internet sources for collection of data. In the subsequent sessions he dealt with basic statistics, importance of statistical enquiries and their limitations, mean & median and elaborated on SPSS. He explained about measures of central tendency, measures of dispersion, moment & kurtosis and skewness.

In his second session, he discussed about questionnaire building and formation of Research Questions. He dealt at length with questionnaire framing and types of questions. He focused on questionnaire designing. Types of questions to be included, avoidance of overlapping categories, reliability and validity of the questionnaire were discussed. Various issues related types of question sequence of questions were addressed during this session.

Day 3

Dr. Neeraj Kaushik took a session on identifying variables for research. He discussed the concept of Independent, Dependent, Extraneous, Mediating and Moderating Variables Controlling Extraneous Variables. He discussed the concepts in Hypothesis Testing, Null and Research Hypothesis, Statistical Significance and confidence Intervals, Inferential Errors

He took a session on Identification of Statistical Tools for Data Analysis and gave brief introduction to the participants on various topics like Scales of Measurement, Sampling Theory, Probability and Non Probability Sampling. He stressed that

sampling which otherwise is often mistaken for an easy task actually demands utmost care and sincerity. He expounded on universe, population and sampling. He discussed about the types of probability sampling with the help of examples. Detailed discussion was carried out on simple random sampling, stratified sampling, convenience sampling and snowball sampling. He stated that generally the social science and management researchers work on 5% confidence level. He also explained about sample size criteria, level of precision and degree of variability.

In his post lunch session on Formulating Hypotheses, he discussed about role and sources of hypothesis, and explained about null and alternate Hypothesis. He emphasized the acceptance and rejections of hypothesis are research outcomes. Dr. Neeraj Kaushik also conducted practice sessions on Research Questions and Hypothesis Framing.

Day 4

The resource person for the day was Dr. Balwinder Saini, Guru Nanak Dev University, Amritsar. The session provided an overview of the data sources available to researchers and demonstrated how different types of data can be incorporated into research. Particular attention was paid to how primary data can produce high quality research output. The basics of SPSS and data entry were dealt in the session on Data preparation- Coding & Tabulation, Basic Data Cleanings in SPSS followed by Descriptive statistics & Cross-tabulation. He explained about Data Entry & Data Cleaning and outlier data. He stressed that data duplication should be avoided since it can be identified by SPSS. He explained the process of data selection in SPSS. He discussed about parametric and non-parametric tests. Chi Square test of independence, chi-square test of goodness, spearman's correlation, phi- test, split file and weighed cases. He explained the steps of these tests with the help of examples. He apprised the participants about the software, the Sigma Plot, which can help us to decide the application of the type of tests. He also gave information about E-Views for regression. He also gave information about ETD, ETHOS and Australian Digital Thesis Programme for downloading thesis on various topics. He emphasized that curiosity is the basic need for learning any software. Students were

guided how to perform statistical analysis, data & text mining, predictive modelling and decision optimization. They were also informed about important software available as ready-reckoner for smoothness in their various research analyses. The participants were also given practice of the same.

Day 5

The expert of the session was Prof. Balkishan, Himachal Pradesh University, Shimla. In his session on Hypothesis Testing, Interpretation and Results, he deliberated that since every research has future concerns, so think wisely and make hypothesis near to reality. He drew special attention on regression. He gave clarification about how Regression Analysis is different from Correlation Analysis. Dr. Balkishan carried further the discussion of quantitative analysis by talking on Correlation Analysis with SPSS. He said that one has to take utmost care in making correlation between two variables. It should be logical. He mentioned that sampling should be carried out carefully otherwise the conclusion will be misleading. He explained concepts with hands on practice of writing Results from SPSS. He explained about the application of bivariate correlation, partial correlation, Pearson's coefficient, Spearman's rank correlation and Kendall Tau. He elaborated on one sample t-test, independent sample t-test, paired t-test and ANOVA.

Day 6

Dr. Bhawana Arya took a session on Research Design and designing an effective survey. She elaborated on various types of research designs. She explained about descriptive and exploratory designs with the help of examples. She threw light on various aspects of research methodology. He detailed the participants about various statistical tools used in the research process. He laid emphasis on effective research design for quality research. She gave insights on how to design effective survey for research.

The post lunch session was delivered by Prof. R.C. Gaur, Jawaharlal Nehru University (JNU), on issues surrounding plagiarism. He familiarized the participants with the use of anti-plagiarism tools in research. He enlightened the participants with the technical terms like H-index, citation and impact factor. He explained that an

annotated bibliography is a list of citations to books, articles, and documents and follows the appropriate style format for the discipline, i.e., MLA, APA, Chicago Manual of Style, etc. He explained that creating an annotated bibliography calls for the application of a variety of intellectual skills: concise exposition, succinct analysis, and informed library research. He explained the uses of citation builder and discussed the meaning and seriousness of plagiarism. He discussed and demonstrated how to create bibliography using zotero from various sources and different formats of bibliography. At the same time he stressed on the importance of references and various styles prevalent for the Reference Management.

Day 7

The sessions on the last day were conducted by Dr. SanketVij, B.P.S.Mahila Vishwavidyalaya, Sonipat. In his session on Writing and Presenting Research Proposal, he introduced basic principles of writing proposals across a range of disciplines. He explained the various formats of research proposals and explained the in depth for all the components of Research Proposal. Dr. Vij introduced the practical rhetorical and grammatical principles of writing effective proposals to the participants of the workshop. He informed the participants that proposal should include a working bibliography of key texts that inform about their study and methodology. Researcher should include all sources cited in his or her proposal. Session presented practical strategies, and it included examples of successful proposals.

The session helped the participants to understand the rhetorical situation of the thesis proposal and common elements of such proposals. He explained the intricacies of research progress. He stressed that knowledge of applied statistics and IT tools was must for good research work. He explained the use of SPSS software package. This was followed by interactive session which proved to be enriching for all the participants.

The workshop ended with the valedictory session wherein participants were provided with the certificates of participation.





Report

Two Week Workshop on Research Methodology

(15 June 2016- 28 June 2016)

Research is a continuous process and requires progression to achieve meaningful results for the benefit of the society at large. Research Progression requires a logical and conceptual knowledge. To meet this challenge it is necessary to train and equip the faculty and research scholars so that they can comply with the quality standards of research in their respective disciplines. To address these issues a Two Week Workshop was organized by The Centre for Research, Innovation and Training, The IIS University, Jaipur. The workshop was designed to achieve the following objectives:

- To make the participants familiar with the basic concepts of research methodology.
- To impart skills in the integration of qualitative and quantitative research.
- To make the participants user friendly with the statistical softwares for data analysis.
- To develop the applied research skills of the participants.

The workshop was attended by 10 participants. The workshop focused on both qualitative and quantitative aspects of research. The detailed report of the workshop is as follows:

Day 1

The resource person for the day was Dr. Satish Kumar, MNIT, Jaipur. The topic of First session was Research Methodology: Conceptual Frame work. He discussed about the basic idea of research. He stated that researchers should make efforts to publish their articles only in peer reviewed and indexed journals. He talked about various aspects of qualitative research and stressed that researchers should focus on validity, legitimacy and generalization. In the subsequent sessions he elaborated on

review of literature. He suggested that the researchers should read the book "Research Design" by Jennifer Walker to brush up their knowledge.

Day 2

Dr Satish Kumar, MNIT, Jaipur was the resource person. He explained the uses of Mendeley as a free reference manager, data manager for citation for academic and social network. He threw light on online bibliographic programmes. He explained about end notes and foot notes.

He also elaborated on various types of research designs. He explained about descriptive and exploratory designs with the help of examples.

He gave information about the requirements of a good article. It should be original and should contribute to the existing body of literature. He explained about the steps of framing of paper and process of review of papers

Day 3

The sessions were taken by Prof. Sanket Vij, Bhagat Phool Singh Mahila Viswavidyalaya, Khanpur Kalan, Sonapat . The topic for the first session was Plagiarism. He explained the uses of citation builder and discussed the meaning and seriousness of plagiarism.

The basics of SPSS and data entry were dealt with in the subsequent sessions. The last session was practice session.

Day 4

The sessions for the day were taken by Prof. Sanket Vij. He discussed about questionnaire building. He dealt at length with questionnaire framing and types of questions. He explained about data entry, data cleaning and outlier data. He stressed that data duplication should be avoided since it can be identified by SPSS. He explained the process of data selection in SPSS. The participants were also given practice of the same.

Day 5

The expert for the sessions was Prof. Sanket Vij. He discussed about formulation of hypothesis and explained about null and alternate hypothesis. He emphasized that acceptance and rejection of hypothesis are research outcomes. He explained about the parametric tests of hypothesis testing. He elaborated on one sample t-test, independent sample t-test, paired t-test and ANOVA.

In the last session of the day he focused on questionnaire designing. Various issues related to types of question, sequence of questions were addressed during this session.

Day 6

Dr. Ashwini Kumar, J.K. Lakshmi Pat University, Jaipur was the resource person for the day. He explained about various methods of data collection like observation and case study method. He discussed about writing a case and points to be kept in mind while case study like asking probing questions, noting down the details, avoiding any kind of argument, not evaluating the information simultaneously.

The last session was devoted to questionnaire designing. Types of questions to be included, avoidance of overlapping categories, reliability and validity of the questionnaire were discussed.

Day 7

The resource person for the day was Dr. Balwinder Saini, Guru Nanak Dev University, Amritsar. He discussed about parametric and non-parametric tests. Chi Square test of independence, chi-square test of goodness, spearman's correlation, phi- test, split file and weighed cases. He explained the steps of these tests with the help of examples. He apprised the participants about the software, the Sigma Plot, which can help us to decide the application of the type of tests. He also gave information about E-Views for regression. He also gave information about ETD, ETHOS and Australian Digital Thesis Programme for downloading thesis on various topics. He emphasized that curiosity is the basic need for learning any software.

Day 8

Dr. Neeraj Kaushik, NIT, Kurukshetra was the resource person for the day. He explained about Exploratory, Descriptive and Experimental research. He discussed about internet sources for collection of data. In the subsequent sessions he dealt with basic statistics, importance of statistical enquiries and their limitations, mean & median and elaborated on SPSS. He explained about measures of central tendency, measures of dispersion, moment & kurtosis and skewness.

Day 9

The resource person was Dr. Neeraj Kaushik. He expounded on universe, population and sampling. He discussed about the types of probability sampling with the help of examples. Detailed discussion was carried out on simple random sampling, stratified sampling, convenience sampling and snowball sampling. He stated that generally the social science and management researchers work on 5% confidence level. He also explained about sample size criteria, level of precision and degree of variability.

Day 10

Dr. Girish Taneja, DAV University, Jalandhar was the resource person. The session was on measures of association. He also explained the concept of variance and covariance. He explained about application of bivariate correlation, partial correlation, Pearson's coefficient, Spearman's rank correlation and Kendall Tau. He explained bivariate regression with the help of a concept map. He also discussed assumptions of multiple regression. He discussed the concept of Heteroscedasticity and multicollinearity. The participants were also given practice in multiple regression on SPSS.

Day 11

The resource person for the sessions was Dr. Ajay Chauhan, IMT, Ghaziabad. Multivariate analysis was discussed in the first session. He explained about Exploratory factor analysis and Confirmatory Factor Analysis and Analytic Hierarchy Process. He also introduced the participants to AMOS commands for analyzing constructs. The

AMOS Commands for EFA and CFA were also explained. The participants were given practice in model construction using AMOS.

Day 12

The sessions were taken by Dr. Ajay Chauhan. The sessions were on Structural Equation Modelling and Path Analysis. He stated that SEM is a widely used multivariate statistical method in the area of social science. It is used for analyzing cause and effect relationships among a set of constructs represented by multiple measurable variables in a single model. SEM uses the concepts of both regression analysis and exploratory factor analysis. The applications of SEM were explained with the help of examples. The AMOS commands of SEM were explained and the participants were given an exercise on SEM. The basics of conjoint analysis were also explained.

Day 13

The resource person for the session was Prof. Nisha Yadav, Department of Sociology, The IIS University, Jaipur. She delivered lecture on Philosophy of Social Research. She elaborated on ontology, epistemology, axiology and rhetoric. She explained about research paradigm. She stated that paradigm serves as a framework for guiding research. She also explained about Symbolic Interactionism and Critical Research. Positivist Paradigm and Interpretive Paradigm.

The resource person for the next session was Prof. Uma Joshi, Amity University, Jaipur. She gave her lecture on Qualitative Analysis: Content Analysis of Verbatim Expression (CAVE Technique). She discussed about behavior, event and interview. She also discussed about tests to measure competency.

The next session was quiz session. The participants were given fifty questions based on the topics covered in the sessions.

Day 14

Prof. Vinay Srivastava, University of Delhi, New Delhi was the resource person for the day. He reflected on various aspects of qualitative research. He elaborated on

the domains of research. He explained about Ethno-methodology and stressed that interpretative understanding of the society is essential in order to draw generalizations. He also addressed several issues related to writing quality research papers. He concluded his lecture by highlighting the importance of qualitative research. This was followed by interactive session which proved to be enriching for all the participants.

We hope that the workshop was an intellectually stimulating experience for all and enhanced the knowledge of the participants.





Report of CRIT Workshop on Research Methodology Science

26.03.2016 to 01.04.2016

A 7-day workshop on research methodology was successfully organized from 26th March to 1st April 2016 by the Centre for Research, Innovation and Training (CRIT), The IIS University. The workshop communicated about various research methods, research processes, use of research tools and techniques, writing skills to the young researchers. The workshop endeavored to prepare participants to approach research in rational way, streamline the research question and pointed in context to empirical data collection strategies. 23 participants attended the workshop.

Prof. R.K. Bansal, Emeritus Professor, Department of Chemistry delivered the first talk on formulation research problem and keenly discussed the importance of scientific research in one personal and professional growth. The knowledge shared by him guided the participants to channelize their thoughts in conducting basic and applied research. Next two sessions were on structured literature review where Dr. Satish Kumar, Assistant Professor, MNIT explained the significance of organizing research papers in library form. He conveyed that the precise management of references saves time initiating quality research.

The second day of the workshop was on research methods, good practices in research and related problems faced by a researcher Dr. C.S. Gahan from Central University Rajasthan discussed all these queries of a researcher vividly, giving real life examples. The interactive sessions were valuable to solve many questions students may have in their mind.

Proceedings sessions were initiated by Dr. Anil Bharadwaj, from University of Rajasthan which focused on sampling techniques, measurement and scaling, data collection, optimization and simulation. The following sessions were on biostatistics, Hypothesis testing, correlation and regression corresponded by Dr. A.N. Dwivedi, AIIMS, New Delhi which acquainted us with the relevance of optimized and structured data that appends to research quality with applicable results.

The next day Dr. S.C. Joshi from University of Rajasthan described the methods and benefits of data compilation and interpretation along with the details to prepare research proposal and manuscript for publication.

The sixth day of workshop with Dr. Surendra Nimesh, Central University of Rajasthan had an interactive session about reference management and various tools like Mendeley, Ref. Works, Zotero, Bibloscope and many more. Participants were highly informed and motivated to maintain their reference carefully with ease.

The last session was on Biosafety, good laboratory practices and ethics by Dr. Nidhi Gupta, Ys, SERB, DST where she talked about the prevention of large-scale loss of biological integrity, various prevention mechanisms including conduction of rules, laboratory settings, along with strict guidelines to be followed.

By the end of the programme, the participants were confident in using the right methods and tools to analyze data. They were be able to better design their primary research studies as well as to quickly enter and analyze this information.





1. **Introduction:**

In its quest for excellence and to promote research, the Centre for Research Innovation and Training, The IIS University, Jaipur organized a **2 Week Capacity Building Programme in Research Methodology for Young Faculty in Social Sciences from 21 May 2015 to 3 June 2015**. The course was sponsored by Indian Council for Social Science Research, New Delhi. The objective of the course was to re orient and re activate the young academicians to pursue quality research.

2. **Resource Persons & Course Content:**

The inaugural session of the programme was graced by such luminaries from the field of education as Dr. Raakhi Gupta, Rector & Registrar, the IIS University, who gave the welcome address, Prof. Vinay Kumar Srivastava from Delhi University was the key-note speaker of the session, Prof. Karori Singh, Director, South Asia Study Centre, University of Rajasthan was the Chairperson, Dr. Subhash Garg, Dean and Director, CRIT, acquainted the august gathering with the aims and objectives of the programme as well as the activities of CRIT.

Eminent academicians from various Institutions of repute from all over India like

- Prof. Vinay Kumar Srivastava, University of Delhi
- Prof. Prabhat pankaj, Director, Jaipuria Institute of management, Jaipur
- Prof. N K Garg, MDU, Rohtak
- Prof. Sanket Viz, BPS Mahila University, Sonipat
- Prof. SP Gupta, Jai Narayan Vyas University, Jodhpur
- Prof. Balwinder Singh Saini, Gurunanak Dev University, Amritsar
- Dr. Neeraj Kaushik, NIT, Kurukshetra
- Dr. Sunita Arora, MDU, Rohtak
- Prof. Ajay Kumar Chouhan, IMT, Gaziabad
- Dr. Girish Taneja, DAV University, Jalandhar
- Prof. Sanjeev Mittal, Guru Gobind Indraprastha University, Delhi
- Prof. Amita Sharma, University of Rajasthan, Jaipur
- Prof. T N Mathur, University of Rajasthan
- Prof. Karori Singh, Observer of the course and Director, South Asia study centre, University of Rajasthan
- Prof. M L Sharma, University of Rajasthan, Jaipur
- Prof. N.D. Mathur, University of Rajasthan, Jaipur
- Prof. Roopa Mathur, The IIS University, Jaipur
- And Prof. Nisha Yadav, The IIS University, Jaipur

Were the resource persons for the various technical sessions.

These experts apprised the participants on qualitative and quantitative research; focusing upon the research design, review of literature, data collection techniques, formulation of research problems, objective wise analysis, field research, hypothesis testing, sampling, types of sampling, correlation, regression, usage of dummy variables in regression. The econometric issues like multicollinearity, autocorrelation and problem of heteroscedasticity were also addressed during the sessions. Some sessions were specifically designed for orienting and training the participants on advanced data analysis techniques like Panel Data Analysis, Time Series Analysis, Structural Equation Modeling, Path Analysis, Conjoint Analysis.

The sessions towards the end of the programme addressed issues like ethics and politics of research, academic writing, various issues related to plagiarism, how to prepare a research proposal, publication process.

The key Highlights of the course were :

- Hands on training with SPSS, E Views and SPSS AMOS
- Discussion on application of various statistical tools
- Demonstration of Turnitin software to check the plagiarism, access to online databases like Ebsco, Questia, and Delnet.
- Paper Clinic

As part of the ICSSR Guidelines, it was mandatory for the participants to work upon a research paper. All the participants were asked to bring a draft paper. The papers were evaluated by various experts during the sessions and necessary feedback was given to the participants. The course concluded with an extremely informative session by Prof. T N Mathur, where all the participants presented their papers after incorporating the required changes and deposited the hard copy of the same. This concluding session was followed by a feedback session from the participants. It was a learning experience for all. The contributions of various resource persons to the course were invaluable and of immense intellectual significance.

3. Session Wise Detailed Report:

Day 1

Session 1

Day 1 started with registration of the participants from different states of the country. Registration was followed by the inaugural session. Dr. Arti Sharma, Head Department of Sociology, The IIS University welcomed the esteemed guest and the participants. Dr. Subhash Garg, Dean and Director, CRIT highlighted the aims and objectives of the course. He also talked about CRIT and other upcoming sessions during the period of 10 days. The key note address was delivered by Prof. Vinay Kumar Srivastava, Dept of Anthropology, University of Delhi. Prof. V.K Shrivastava, in his address highlighted various critical aspects in social research. The ceremony was concluded by Course Co-director Dr. Roopam Kothari's Vote of thanks.



Session 2 Second session was addressed by Dr. Vinay Kumar Srivastava, where he highlighted upon the concept of research methodology and discussed research questions. He apprised the participants on aspects of qualitative research and stressed upon the fact that interpretation is always qualitative. But if incidences of behavior are countable, they must be counted because it gives precision, otherwise qualitative facts would appear impressionistic.



Session 3

Third session of the day was taken by Prof. Amita Sharma, Department of Statistics, University of Rajasthan. Prof. Sharma apprised the participants with the conceptual frame work of research design. She discussed the stages of research and types of research designs giving suitable examples. Prof. Sharma also highlighted upon the fact that how the factors play a critical role in topic selection and problem identification.



Session 4

Resource person for last session of the day was Prof. N.K. garg, M.D.U Rohtak. Prof. Garg highlighted on the importance of exploring the existing literature through Review of Literature. He also described the importance of and correct way of including end notes, footnotes, bibliography and references in writing research



DAY 2

Resource person for next 3 sessions of day 2 was Prof. Sanket Viz, BPS Mahila Vishwavidyalaya, Sonipat. Prof. Viz discussed techniques of data collection in second session.



Session 5,6,7 & 8

First session of day 2 was addressed by Prof. N K Garg. The session was in continuation of session on the previous day. Prof. Garg apprised the participants about the importance of problem formulation. He gave some real life examples related to research where the problems were not formulated correctly and what consequences were borne by the researchers.

He highlighted upon the various sources of data collection, limitation of collecting data from both primary as well as secondary. He discussed the techniques of observation and interview with the participants and explained the intricacies involved in each of the techniques. In session 7 he discussed the concept of Case Study and Survey Methods. In session 8 he covered sample distributions. Apart from the topics discussed above Prof. Viz Divided the participants into 5 groups. Each group was then asked to have one to one interaction amongst their group and to come up with individual research titles which were to be discussed in paper clinic session.

DAY 3

Session 9 & 10

The first two sessions of the day were addressed by Prof. S.P. Gupta, Jai Narayan Vyas University, Jodhpur. He talked about ethnomethodology and explained the concepts of indexicality, reflexivity, rational accounting practices, practical sociological reasoning and glossing practices. He explained that every phenomenon is linked to ceratin context and without understanding the context ie time and place social events cannot be interpreted. He elaborated on situational context, linguistic context and biographical context. He also explained the importance of the process of verbal and non-verbal communication in the process of research.



Session 11

Resource person for this session was Prof. Roopa Mathur. Prof. Mathur illustrated the concept of field research in an interesting manner. She explained about different circumstances faced by the researcher during field work. She emphasized that pre field work ie knowledge of native language, understanding of culture is necessary for success of field work. She also stressed that patience is a necessary attribute of a field worker. She further discussed the various stages of field work viz. selecting a research setting, gaining access, presenting oneself, becoming invisible and gathering information. She concluded the session by focusing upon the concept of field notes.

Session 12

Prof. Nisha Yadav dealt at length with various aspects of Phenomenology. She discussed about existence and usage of philosophical research in contemporary scenario. Prof. Yadav also highlighted on various dimensions of critical social research. She explained that critical perspective can be used by the researcher for understanding social reality and socially constructed meanings at macro level historical context.

DAY 4

Session 13, 14, 15 & 16

Resource person for the day was Prof. Neeraj Kaushik from NIT, Kurukshetra. Prof. Kaushik commenced his session by explaining the various concepts related to variables like what are variables? Why is it necessary to identify variables ? What are dependent & independent variables? etc. He then discussed the types of data ie longitudinal and cross sectional data. Taking his discussion forward with the help of some

real life examples he then focused on measurement of scales viz. Ordinal, ratio, interval. He then told the participants about the validity & reliability tests. He concluded session I by explaining the concept of variables and measurement scales by representing the data in a tabular format, which was appreciated by the participants



In next two sessions, Prof. Kaushik discussed the concepts of universe and Nature & types of Sampling. He told the participants about the concept of finite and infinite population by giving suitable examples. Then he explained the concept of sampling frame, sampling unit and types of sampling like probability & non probability sampling techniques. He further explained various techniques to choose a representative sample and also discussed about significance levels.

Last session was completely devoted to Objective wise analysis of variables. Where Prof. Kaushik discussed with the help of examples that given a title of research, how the researcher could find out the variables, identify the type of variables, frame the hypothesis, and identify what technique of hypothesis testing may be used. All four sessions of Prof. Kaushik were extremely enriching. After the sessions were over, Prof. Kaushik devoted some time to solve the individual queries of the participants

DAY 5

Session 17,18,19 & 20

Resource person for the day was Prof. B K Saini. Prof. Saini focused on the following topics in his first session :

- Basic Statistics: importance of statistical inquiries and their limitations; Collection and tabulation of statistical data, graphical presentation, frequency distribution.
- Measures of central tendency, measures of dispersion.

In session 2, Prof. Saini discussed the concept of hypothesis testing and various tools for testing the hypothesis through SPSS. He showed in detail the various parametric and non parametric tests on SPSS using different SPSS data files.

In session 3 & 4, Prof. Saini, trained the participants on correlation and regression analysis with the help of data files on SPSS. After running the analysis, he focused on the interpretation of results of correlation and regression by which the participants were highly benefitted.



DAY 6

Session 21, 22, 23 & 24

Resource person for all the sessions on day 6 was Prof. Prabhat Pankaj from Jaipuria Institute of Management, Jaipur. Prof. Prabhat shared his expertise on dummy variable regression model & limited dependent variable models with the participants.

In session 1, he focused on the following topics:

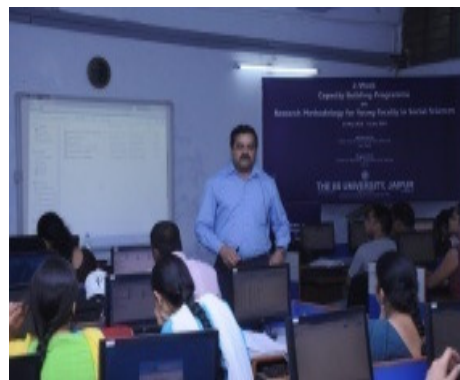
Dummy Variable Regression Analysis

Bi-variate and multivariate regression models' Result Interpretation.

In session 2, he explained the formulation of equation for logit analysis and demonstrated the analysis on SPSS. He further discussed that in what kind of circumstances the model may be applied

In session 3, He continued with the Probit model and discussed its application

Session 4, was given to the participants as practice session to practice the regression analysis on the data files under the supervision of Prof. Prabhat Pankaj.



DAY 7

Session 25,26,27 & 28

Resource person for the day was Dr. Sunita Arora. First two sessions were dedicated to panel data analysis. Prof. Arora explained the theoretical background of panel data analysis in the first session through her presentation and the second session was then devoted to the hands on training of panel data analysis using E



Views software.

In session 3, Prof. Arora focused on the basics of time series analysis, the concept of stationarity and the tests like dicky-fuller tests and PP test to test the stationarity. Data files were shared with the participants to give them practice on E Views.

DAY 8

Session 29,30,31 & 32

Resource person for the day was Dr. Ajay Chouhan. He trained participants on Structural Equation Modeling using SPSS –Amos. All the four sessions were devoted to SEM. First two sessions were devoted to the theoretical aspects of the Structural Equation Modeling and remaining two sessions the participants were asked to practice SEM analysis which was made very clear by Prof. Chouhan to all the participants.



DAY 9

Session 33, 34, 35 & 36

On day 9 first two sessions were taken by Dr. Roopam Kothari, where she talked about applications of SEM analysis in various disciplines. She discussed some specific cases involving SEM.

Next two sessions were taken by Dr. Shweta Kastiya. She discussed factor analysis with the help of SPSS and also highlighted that under what circumstances one should use Exploratory Factor Analysis and Confirmatory Factor Analysis.

DAY 10

Session 37,38,39 & 40

First session of the day was taken by Prof. N D Mathur. He threw light on one of the most important aspect of Research- Ethics and Politics of Research. He touched upon the following aspects in his lecture:

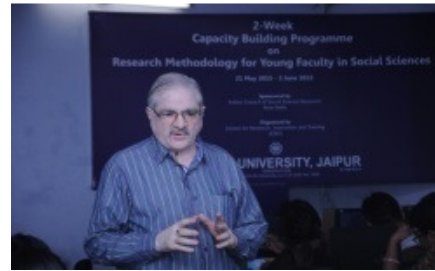
- Ethics and the researcher, ethics and the scientific community, ethics and the sponsors of research; ethical issues involving human subjects – harm, deception, informed consent, special populations and new inequalities;
- Privacy, anonymity, and confidentiality, making ethical decisions. The politics of research: limits on research, dissemination of research findings; The uses of research: science and society.

Resource Person for next three sessions was Prof. Sanjeev Mittal from University of Delhi. He discussed in detail the Ethics in Academic Writing. In his 2nd session he discussed the following issues in detail with the participants:

- Meaning and types of academic writing, Papers for Journals
- Preparation of Reports, Writing Books (Difference from PhD thesis)

In his next session he discussed about plagiarism, different types of plagiarism, how to prevent plagiarism and importance of adhering to rules for referencing/citation.

In his last session he demonstrated the working of the Software Turnitin to detect the level of similarity index with the help of University's publication officer.



DAY 11

Session 41, 42, 43 & 44

Resource person for the day was Dr. Girish Taneja. He discussed in detail the elements of wiring and covered in detail the following topics:

- Organizing and Presenting an Argument
- Discussion, Conclusions, Abstract (for papers)
- Differences between papers, reports and books in above
- Quantitative: Data presentation, analyses and discussion

In his next session he covered the basics which should be remembered while writing and submitting a research proposal. He discussed the following aspects:

- Writing a research proposal (difference from papers / books / reports)
- Research Proposal: Main elements
- Identifying and Presentation of Issue(s)/Topic/Problem(s) to be studied.



In his last session he discussed about the publication process and threw light on the following aspects:

- Journals – submission, review, revision
- Books – manuscript presentation, review, editing,
- Dealing with Rejection
- Importance of Revision (Review Reports, Response sheets)
- Papers/Books: Criteria for selection
- Process: Acceptance to Publication (revision, editing, proofing, printing)

In the end he taught the participants to use google scholar account and how to keep a track of the papers already published.

DAY 12 & 13

Day 12 & 13 was devoted to paper clinic. Prof. N D Mathur, Prof. Karori Singh & Prof. Subhash Garg discussed the research titles proposed by the participants on



one to one basis and gave them the feedback. Participants spent the entire day in preparing their research paper in computer Lab.

Day 14

On the last day individual presentations were scheduled. Prof. T N Mathur evaluated all the presentations made by the participants. The presentations were followed by the valedictory session.



Outcome of the Programme:

It was a learning experience for all the participants. Hand on training on SPSS, E Views, Ternitin etc. was appreciated by the participants. Sessions on paper clinic gave them chance to interact with resource persons on one to one basis. At the end of the programme all the participants were ready with a draft research paper/article. The progress of the same will be reviewed by the organizers within a period of one year.