



SRM

INSTITUTE OF SCIENCE & TECHNOLOGY
(Deemed to be University u/s 3 of UGC Act, 1956)

COLLEGE OF
SCIENCE AND
HUMANITIES



DEPARTMENT OF COMMERCE

REPORT
ON
ONE WEEK SHORT TERM TRAINING PROGRAM
"ESSENTIALS OF RESEARCH METHODOLOGY
FOR SOCIAL SCIENCE RESEARCHERS"



22ND MAY 2021 TO 31ST MAY 2021

EVENT CONVENORS

MS.V. LAVANYA - ASSISTANT PROFESSOR

MR. R. GOWTHAM - RESEARCH SCHOLAR

COLLEGE OF SCIENCE AND HUMANITIES
DEPARTMENT OF COMMERCE

PRESENTS

**SHORT TERM TRAINING PROGRAM
ON
ESSENTIALS OF RESEARCH METHODOLOGY
FOR SOCIAL SCIENCE RESEARCHERS**



**DATE : 25TH MAY TO 31ST MAY
TIME : 2PM TO 3PM**

 **THROUGH ZOOM CLOUD MEETING**

SESSION DETAILS



DR.G.VIJAYAKUMAR

ASSISTANT PROFESSOR OF COMMERCE, SIR THEAGARAYA COLLEGE
TOPIC - DATA ANALYSIS AND SELECTION OF STATISTICAL TECHNIQUES
DATE : 25 & 26TH MAY



DR.T MAHESH KUMAR

ASSISTANT PROFESSOR - COMMERCE
CHRIST UNIVERSITY , PUNE LAVASA CAMPUS
TOPIC - SURVEY RESEARCH METHODS & E-RESOURCES FOR RESEARCHERS
DATE : 27 & 28TH MAY 2021



DR.P.SATHISH KUMAR

ASSOCIATE PROFESSOR
BHARATH (DEEMED TO BE UNIVERSITY), TAMBARAM, CHENNAI.
TOPIC - CHECKING OF PLAGIARISM & CHOOSING JOURNALS FOR PUBLICATIONS
DATE : 29 & 30TH MAY 2021



DR.V.ARULMURUGAN

ASSISTANT PROFESSOR & RESEARCH SUPERVISOR
PONDICHERRY UNIVERSITY , KARAİKAL CAMPUS
TOPIC - HYPOTHESIS DEVELOPMENT AND TESTING VALIDITY OF DATA
COLLECTION INSTRUMENT
DATE : 31ST MAY 2021

SUMMARY

A Short-Term Training Program was conducted virtually on 25-31st May 2021 to enable Faculty members and Research Scholars to build their foundation on Research Methodology. The workshop, Department of Commerce, brought together over experts in the field of statistics, commerce and data analytics. The workshop successfully harnessed the enthusiasm and experience of participants and reached wide-ranging consensus.

PURPOSE OF THE PROGRAMME

The Purpose of the Short-Term Training Program (STTP) is

1. To develop and test the hypothesis for research study
2. To understand the selection of statistical techniques based on data characteristics.
3. To provide hands on experience on construction and working with structural equation models.
4. To recognize the nuances in survey research methods
5. To explore various e-resources available for resources
6. To design the synopsis for the doctoral program.
7. To evaluate the journals for publication considerations

OUTCOMES

After the completion of the Programme, the learners were able to

1. Design and validate the hypothesis developed for their study
2. Develop a comprehensive understanding on selection of data analysis tool for their research work
3. Construct and test the conceptual model developed for their research studies
4. Understand the nuances in survey research methods
5. Access and better utilize the open access resources for their research studies
6. Prepare their own PhD synopsis
7. Critically analyze journals for publication of their research work

BENEFICIARIES

Nearly 50 participants including Faculty members and Research Scholars registered and benefitted out of this Short-Term Training Programme. Certificates were issued to the participants based on their active participation in the program

Date: 25th and 26th June 2021

Topic: DATA ANALYSIS AND SELECTION OF STATISTICAL TECHNIQUES

Resource Person:

Dr. G. Vijaya Kumar

Assistant Professor & Research Supervisor,

Department of Commerce,

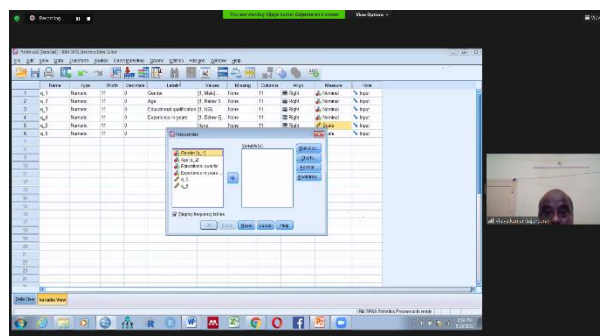
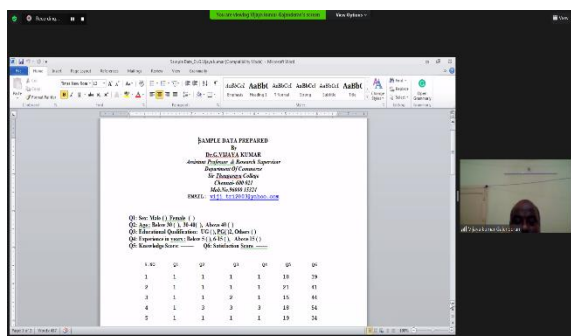
Sir Theagaraya College (Aided)

Chennai-600 021.

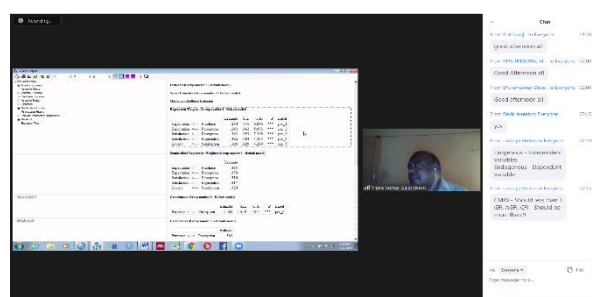
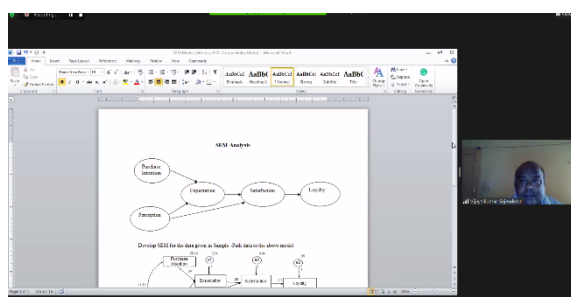
The speaker explained the basic concepts and technique used for data collection and major steps involved in data analysis, classification and Interpretation of data. The statistics concepts like measures of central tendency, conditions to use techniques like t-test, chi-square test, correlation and regression analysis and ANOVA were explained to the participants. In the second day, hands-on training is given to the participants for using SEM model with summary, calculations were explained. Before proceeding on this topic, the participants were taught to understand the importance and the basis of distribution of variables like endogenous and exogenous variables. Both the days were concluded with Question-and-Answer session in the end. The following heads are covered in the two days session

- Data requirement gathering
- Data collection
- Data Analysis
- Tools to be used in the research
- SEM model
- Hands on training for SEM MODEL

22nd MAY 2021



23rd MAY 2021



Date: 27th and 28th May 2021

Topic: SURVEY RESEARCH METHODS & E-RESOURCES FOR RESEARCHER

Resource Person

Dr. Mahesh Kumar. T

Assistant Professor

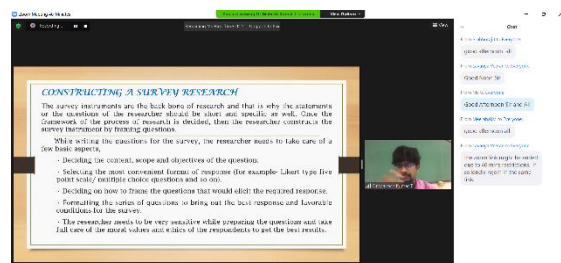
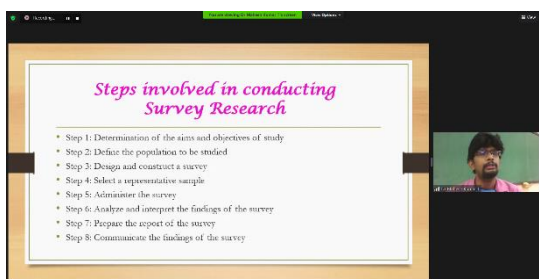
School of Commerce, Finance and Accountancy

CHRIST (Deemed to be University) Lavasa, Pune

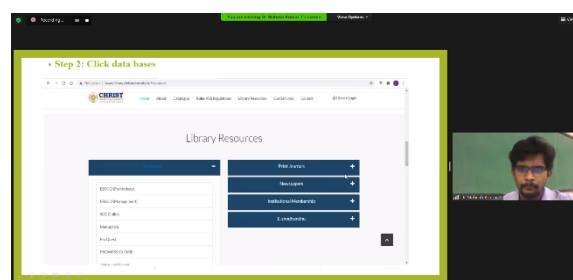
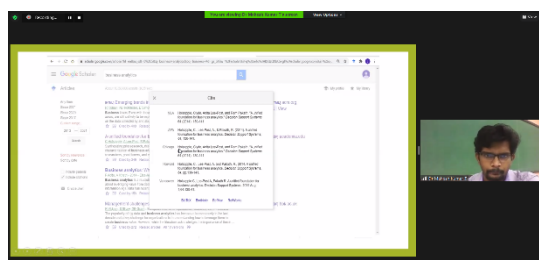
The session began with the process outlay of research with survey method selection considerations. He explained the purpose of survey research and the logic of the study to the audience. Resource Person also highlighted the features of survey research methods and selection of population in conducting a survey. Also, he listed the free journals and website available for Researchers. The session gave an overall idea about how to proceed with research giving greater focus on the Survey methods and E- Resources. Both the days were concluded with Question-and-Answer session in the end. The following heads are covered in the two days session

- Determination of the aims and objectives of study
- Define the population to be studied
- Design and construct a survey
- Select a representative sample
- Administer the survey
- Analyze and interpret the findings of the survey
- Prepare the report of the survey
- Familiarizing with library database
- Steps to search research articles.

24th MAY 2021



25th MAY 2021



Date: 29th and 30th May 2021

Topic: Preparation of Synopsis and Checking plagiarism and choosing journal for publication

Resource Person:

D R. P. S A T H I S H K U M A R

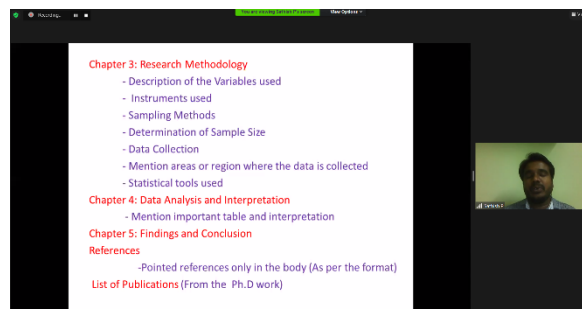
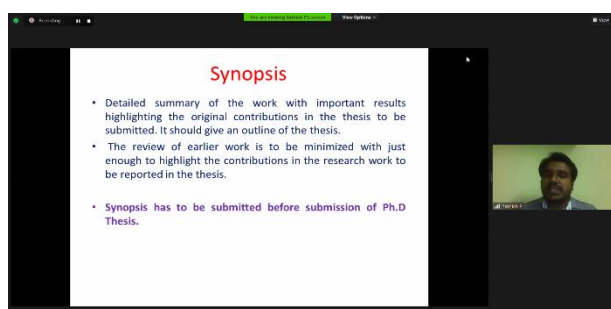
Associate Professor

Bharath Institute of Higher Education and Research (Deemed to be University) Tambaram Chennai.

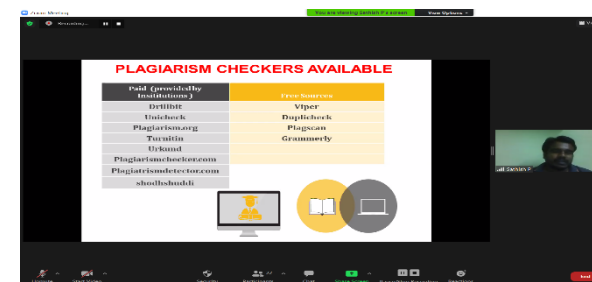
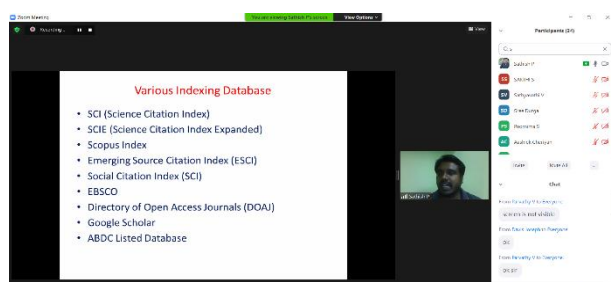
The Speaker began the session with explaining the meaning of synopsis, the purpose of synopsis and the reason for which universities requires research scholars to submit the synopsis. Further, the speaker highlighted that preparation of synopsis depends on concerned universities requirements. Followed by which, the resource person took us through the various contents of synopsis using SRM Institute of Science and Technology's synopsis guidelines as an example. The next day, the speaker began with a technical aspect of choosing Journals and steps to avoid plagiarism, Citations and referencing that every researcher needs to know. He clearly conveyed to the participants how to write the format that must be followed in citing a journal. Also, the speaker highlighted on computation of H-index, i10 index and calculation of Journal Impact Factor. The session gave an overall idea about how to choose a Journal and to reduce plagiarism and Synopsis preparation process Both the days were concluded with Question-and-Answer session in the end. The following heads are covered in the two days session

- Choosing the right journal
- Ranking of Journals
- Plagiarism Check tools provided by institutions and in online
- Citation calculation
- Preparation of Synopsis
- Head to be covered in synopsis.

29th MAY 2021



**30th MAY
2021**



Date: 31st May 2021

Topic: HYPOTHESIS DEVELOPMENT AND TESTING VALIDITY OF DATA

Resource Person

Dr. V. ARULMURUGAN

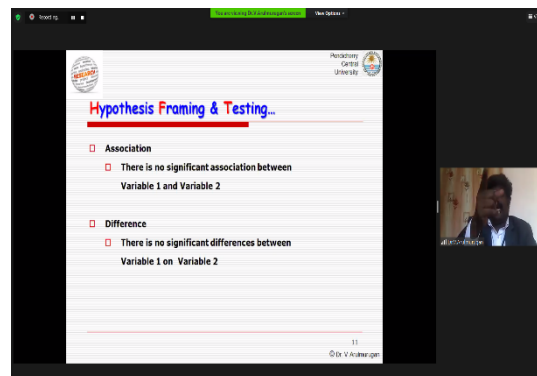
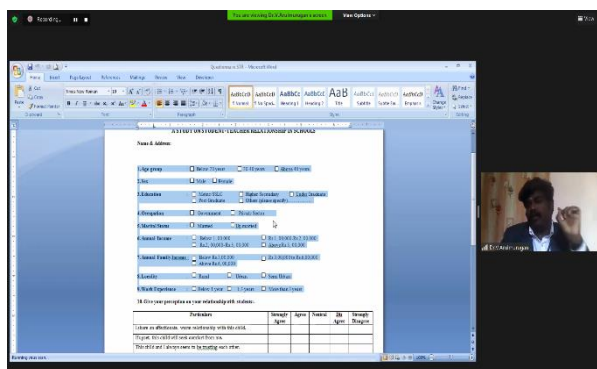
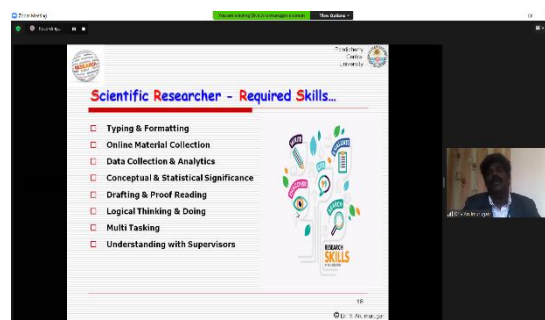
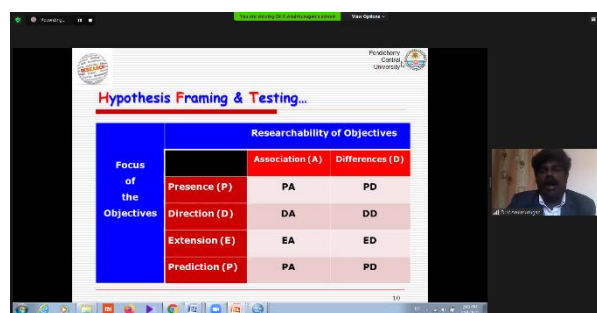
Assistant Professor & Research Supervisor

Pondicherry University, Karaikal Campus.

The Resource person gave a comprehensive view about Research hypothesis, types, criteria, characteristics of hypothesis testing. Followed by the facilitator provide a detailed ideas about how to prepare a tool, theoretical bases to understand of tools preparation, validation and types of validation for tools. Participants were made to understand the differences between testing and scaling using examples and the session ended with the discussion on the various tools or instruments used for data collection and understanding the tests they have to be put through to validate the research process. The session gave an overall idea about Hypothesis Development and validating data. Both the days were concluded with Question-and-Answer session in the end.

The following heads are covered in the session

- Importance of Hypothesis
- How to Develop Hypothesis
- Steps involved in developing Hypothesis
- Process in Validating data.



All Sessions Link:

https://drive.google.com/drive/folders/1GDQfbQ9TczIe1aC8vs7_19t34PaEx5w1?usp=sharing

EVENTS GALLERY

Recording...

Sample Data_Dr.G.Vijaya kumar [Compatibility Mode] - Microsoft Word

FileHomeInsertPage LayoutReferencesMailingsReviewViewGrammarly

Times New Roman12AaBbCc

EmphasisHeading 1NormalStrongSubtitleTitle

Find & ReplaceChange StylesSelectOpen Grammarly

ClipboardFontParagraphStylesEditingGrammarly

SAMPLE DATA PREPARED
By
Dr.G.VIJAYA KUMAR
Assistant Professor & Research Supervisor
Department Of Commerce
Sir Theagaraya College
Chennai- 600 021
Mob.No.96000 15324
EMAIL: viji_tri2003@yahoo.com

Q1: Sex: Male () Female ()
Q2: Age: Below 30 (), 30-40 (), Above 40 ()
Q3: Educational Qualification: UG (), PG (), Others ()
Q4: Experience in years: Below 5 (), 6-15 (), Above 15 ()
Q5: Knowledge Score: _____ Q6: Satisfaction Score: _____

S.NO	Q1	Q2	Q3	Q4	Q5	Q6
1	1	1	1	1	18	39
2	1	1	1	1	21	41
3	1	1	2	1	15	44
4	1	3	3	3	18	54
5	1	1	1	1	19	34

Page: 1 of 2 Words: 417

Participants (24)

Q Find a participant

A Antony Raj

B Bhuvaneswari.D

B Bincy A Varghese

D Davis Joseph

D Dr.Sridharan.R

JD Jacob Davis K

L Lavanya Veeran

M Meerabai.M

MV MRS.THEBORAL VICTORIYA M

M Muthukalyani T

NM Nivedda MK

P poornima

Poornima Sundar

Praveen K B

PJ Princy Joseph

SV Sathyavathi V

SD Sree Durga

Ask to Unmute

More >

Invite

Mute All

...

Recording...

You are viewing Vijaya kumar Gajenderan's screen

View Options

View

Untitled2 [DataSet1] - IBM SPSS Statistics Data Editor

FileEditViewDataTransformAnalyzeDirect MarketingGraphsUtilitiesAdd-onsWindowHelp

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2q_2Numeric110NoneNone11RightNominalInput

3q_3Numeric110NoneNone11RightNominalInput

4q_4Numeric110NoneNone11RightNominalInput

5q_5Numeric110NoneNone11RightNominalInput

6q_6Numeric110NoneNone11RightScaleInput

Data View

Variable View

IBM SPSS Statistics Processor is ready

Vijaya kumar Gajenderan

MuteStart Video

SecurityParticipantsChatShare ScreenPause/Stop RecordingReactions

End

Recording... You are viewing Vijaya kumar Gajenderan's screen View Options

IBM SPSS Statistics Data Editor

	Name	Type	Width	Decimals	Label	Values	Missing	Columns	Align	Measure	Role
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2	q_2	Numeric	11	0	Age	{1, Below 3...	None	11	Right	Nominal	Input
3	q_3	Numeric	11	0	Educational qualification	{1, UG}...	None	11	Right	Nominal	Input
4	q_4	Numeric	11	0	Experience in years	{1, Below 5}...	None	11	Right	Nominal	Input
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6	q_6	Numeric	11	0		None	None	11	Right	Scale	Input

IBM SPSS Statistics Processor is ready

Unmute Start Video Security Participants 24 Chat Share Screen Pause/Stop Recording Reactions End



Recording... You are viewing Vijaya kumar Gajenderan's screen View Options

IBM SPSS Statistics Viewer

Output Log

- Log
- Frequencies
 - Title
 - Notes
 - Active Dataset
 - Statistics
 - Frequency Table
 - Title
 - Gender
 - Age
 - Educational qualification
 - Experience in years

Frequencies

[DataSet1]

	Gender	Age	Educational qualification	Experience in years
N	Valid 25	25	25	25
	Missing 0	0	0	0

Frequency Table

Gender

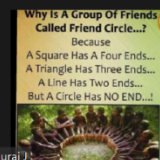
	Frequency	Percent	Valid Percent	Cumulative Percent
Valid Male	15	60.0	60.0	60.0
Female	10	40.0	40.0	100.0
Total	25	100.0	100.0	

Age

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid Below 30 years	7	28.0	28.0	28.0
30-40 years	8	32.0	32.0	60.0
>40 years	10	40.0	40.0	100.0
Total	25	100.0	100.0	

IBM SPSS Statistics Processor is ready

Unmute Start Video Security Participants 24 Chat Share Screen Pause/Stop Recording Reactions End



Recording...

Output [Document1] - IBM SPSS Statistics Viewer

File Edit View Data Transform Insert Format Analyze Direct Marketing Graphs Utilities Add-ons Window Help

Output Log

- Frequencies
 - Title
 - Notes
 - Active Dataset
 - Statistics
 - Frequency Table
 - Title
 - Gender
 - Age
 - Educational qualification
 - Experience in years

Gender

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid Male	15	60.0	60.0	60.0
Female	10	40.0	40.0	100.0
Total	25	100.0	100.0	

Age

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid Below 30 years	7	28.0	28.0	28.0
30-40 years	8	32.0	32.0	60.0
>40 years	10	40.0	40.0	100.0
Total	25	100.0	100.0	

Educational qualification

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid UG	9	36.0	36.0	36.0
PG	9	36.0	36.0	72.0
Others	7	28.0	28.0	100.0
Total	25	100.0	100.0	

Experience in years

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid Below 5	9	36.0	36.0	36.0
6-15	9	36.0	36.0	72.0
>15	7	28.0	28.0	100.0
Total	25	100.0	100.0	

IBM SPSS Statistics Processor is ready. 3:00 PM 5/25/2021

Zoom Meeting

You are viewing Vijaya kumar Gajenderan's screen View Options

Recording... ||

View

Participants (23)

Q Find a participant

- AM Anitha M
- A Antony Raj
- B Bhuvaneswari.D
- B Bincy A Varghese
- JD Davis Joseph
- JD Jacob Davis K
- M Meerabai.M
- MV MRS.THEBORAL VICTORIYA M
- M Muthukalyani T
- NM Nivedda MK
- P Parvathy V
- P poornima
- Poornima Sundar
- Prabhuraj J
- Praveen K B
- SV Sathyavathi V

Unmute Start Video Security Participants Chat Share Screen Pause/Stop Recording Reactions End

98°F Rain showers 03:03 PM 25-05-2021

Untitled1 [DataSet1] - IBM SPSS Statistics Data Editor

File Edit View Data Transform Analyze Direct Marketing Graphs Utilities Add-ons Window Help

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4	q_4	Numeric	11	0	Experience in years	(1, Below 5)	None	11	Right	Nominal	Input
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6	q_6	Numeric	11	0			None	11	Right	Scale	Input

Data View Variable View

IBM SPSS Statistics Processor is ready. 3:03 PM 5/25/2021

Recording... You are viewing Vijaya kumar Gajenderan's screen View Options

IBM SPSS Statistics Data Editor

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3	q_3	Numeric	11	0	Educational qualification	(1, UG)...	None	11	Right	Nominal	Input
4	q_4	Numeric	11	0	Experience in years	(1, Below 5)...	None	11	Right	Nominal	Input
5	q_5	Numeric	11	0		None	None	11	Right	Scale	Input
6	q_6	Numeric	11	0		None	None	11	Right	Scale	Input

IBM SPSS Statistics Processor is ready

Unmute Start Video Security Participants Chat Share Screen Pause/Stop Recording Reactions End



Recording... You are viewing Vijaya kumar Gajenderan's screen View Options

SEM Model_26th may 2021 [Compatibility Mode] - Microsoft Word

SEM Analysis

```

graph LR
    PI((Purchase Intention)) --> E((Expectation))
    P((Perception)) --> E
    E --> S((Satisfaction))
    S --> L((Loyalty))
  
```

Develop SEM for the data given in Sample - Path data to the above model

Page: 1 of 1 Words: 16

Unmute Start Video Security Participants Chat Share Screen Pause/Stop Recording Reactions End



Lavanya Veeran

Zoom Meeting

You are viewing Vijaya kumar Gajenderan's screen

View Options

Recording...

View

SEM Analysis

	Purchase Intention	Expectation	Satisfaction	Loyalty
Purchase Intention	0.43			
Perception	0.24	0.51		
Expectation		0.34	0.44	
Satisfaction			0.44	0.38
Loyalty				0.38

Develop SEM for the data given in Sample-Path data to the above model

Vijaya kumar Gajenderan

Chat

From Prabhuraj J to Everyone:
good afternoon all

From MRS.THEBORAL VICTORIYA M to Everyone:
Good Afternoon all

From Bhuvaneswari Devaraj to Everyone:
Good afternoon all

From Davis Joseph to Everyone:
yes

From Lavanya Veeran to Everyone:
Exogenous - Independent variables
Endogenous - Dependent variable

Unmute

Start Video

Security

Participants 28

Chat

Share Screen

Pause/Stop Recording

Reactions

End

Type here to search

99°F

02:22 PM 26-05-2021

Zoom Meeting

Recording...

Analysis Output

Parameter Summary (Group number 1)

	Weights	Covariances	Variances	Means	Intercepts	Total
Fixed	3	0	0	0	0	3
Labeled	0	0	0	0	0	0
Unlabeled	5	1	5	0	0	11
Total	8	1	5	0	0	14

Vijaya kumar Gajenderan

Chat

From Prabhuraj J to Everyone:
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From MRS.THEBORAL VICTORIYA M to Everyone:
Good Afternoon all

From Bhuvaneswari Devaraj to Everyone:
Good afternoon all

From Davis Joseph to Everyone:
yes

From Lavanya Veeran to Everyone:
Exogenous - Independent variables
Endogenous - Dependent variable

Type here to search

100°F

02:43 PM 26-05-2021

Recording...

Amos Output

Estimates (Group number 1 - Default model)

Scalar Estimates (Group number 1 - Default model)

Maximum Likelihood Estimates

Regression Weights: (Group number 1 - Default model)

		Estimate	S.E.	C.R.	P	Label
Expectation <--	Purchase	240	.035	6.846	***	par_1
Expectation <--	Perception	242	.042	5.692	***	par_2
Satisfaction <--	Perception	392	.053	7.336	***	par_3
Satisfaction <--	Expectation	382	.084	4.565	***	par_4
Loyalty <--	Satisfaction	106	.025	4.249	***	par_5

Standardized Regression Weights: (Group number 1 - Default model)

		Estimate
Expectation <--	Purchase	.455
Expectation <--	Perception	.279
Satisfaction <--	Perception	.510
Satisfaction <--	Expectation	.317
Loyalty <--	Satisfaction	.329

Covariances: (Group number 1 - Default model)

		Estimate	S.E.	C.R.	P	Label
Purchase <-->	Perception	11.508	1.959	5.875	***	par_6

Correlations: (Group number 1 - Default model)



Vijaya kumar Gajenderan

Chat

From Prabhuraj J to Everyone:

good afternoon all

From MRS.THEBORAL VICTORIYA M to Everyone:

Good Afternoon all

From Bhuvaneswari Devaraj to Everyone:

Good afternoon all

From Davis Joseph to Everyone:

yes

From Lavanya Veeran to Everyone:

Exogenous - Independent
variables
Endogenous - Dependent
variable

From Lavanya Veeran to Everyone:

CMIN - Should less than 3
GFI, AGFI, CFI - Should be
more than 9

To: Everyone

File

Type message here...

Type here to search

Zoom Meeting 40-Minutes

Participants: Vishnu S, Anitha G, Parvathy V, Anitha M, Princy Joseph, GOWITHAM R

Dr Mahesh Kumar T

Unmute, Start Video, Security, Participants (14), Chat, Share Screen, Pause/Stop Recording, Reactions, End

Type here to search

36°C Mostly sunny, 02:00 PM, 27-05-2021

Introduction

- **Survey research** is used: “to answer questions that have been raised, to solve problems that have been posed or observed, to assess needs and set goals, to determine whether or not specific objectives have been met, to establish baselines against which future comparisons can be made, to analyze trends across time, and generally, to describe what exists, in what amount, and in what context.” (Isaac & Michael, 1997, p. 136)



Unmute Start Video

Security

Participants 19

Chat

Share Screen

Pause/Stop Recording

Reactions

End

Steps involved in conducting Survey Research

- Step 1: Determination of the aims and objectives of study
- Step 2: Define the population to be studied
- Step 3: Design and construct a survey
- Step 4: Select a representative sample
- Step 5: Administer the survey
- Step 6: Analyze and interpret the findings of the survey
- Step 7: Prepare the report of the survey
- Step 8: Communicate the findings of the survey



Unmute Start Video

Security

Participants 20

Chat

Share Screen

Pause/Stop Recording

Reactions

End

METHODS/INSTRUMENTS USED IN COLLECTING DATA THROUGH SURVEY RESEARCH

Sampling:

The technique of sampling can in itself act as an instrument in collecting data in survey research. For example if the researcher wants to study the level of job satisfaction amongst the employees of an organization, then the researcher can select and study the attitude of at least ten persons of each department of the organization.

In order to avoid any bias, the sampling can be done with the help of randomization (a method of sampling which provides an equal chance for each subject to be involved in the study, which can be done with the help of lottery or fish bowl technique) or stratification (a method of sampling which categorizes the population in to various categories and subcategories and then conducting the research).



Unmute Start Video

Security

Participants 22

Chat

Share Screen

Pause/Stop Recording

Reactions

End

Contd.,

Questionnaire:

Questionnaires are basically a kind of paper pencil and multiple choice test in which the individual needs to select the most suitable alternative. The researcher may collect data with the help of a questionnaire from a large number of samples at a single time. Questionnaires can be administered to the sample in three ways: (i) Mail survey (ii) Group administered questionnaire and (iii) household drop off survey.



Unmute Start Video

Security

Participants 23

Chat

Share Screen

Pause/Stop Recording

Reactions

End

Interview:

Interview is a kind of face to face interaction which helps in providing more honest answers and responses from the sample, as the interviewer (the one who is interviewing i.e., the researcher) works directly Survey Research with the respondent or the interviewee (the one who is being interviewed). Unlike questionnaires, the interviewer has an opportunity to ask follow-up questions. They are the best suitable methods for those questions which require opinions or impressions from the respondents.

- i) **Structured interview**
- ii) **Unstructured interview**
- iii) **Telephonic interview**



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- i) **Structured interview**
- ii) **Unstructured interview**
- iii) **Telephonic interview**



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CONSTRUCTING A SURVEY RESEARCH

The survey instruments are the back bone of research and that is why the statements or the questions of the researcher should be short and specific as well. Once the framework of the process of research is decided, then the researcher constructs the survey instrument by framing questions.

While writing the questions for the survey, the researcher needs to take care of a few basic aspects,

- Deciding the content, scope and objectives of the question.
- Selecting the most convenient format of response (for example- Likert type five point scale/ multiple choice questions and so on).
- Deciding on how to frame the questions that would elicit the required response.
- Formatting the series of questions to bring out the best response and favorable conditions for the survey.
- The researcher needs to be very sensitive while preparing the questions and take full care of the moral values and ethics of the respondents to get the best results.

Dr Mahesh Kumar T

Chat

From Prabhuraj J to Everyone:
good afternoon all

From Lavanya Veeran to Everyone:
Good Noon Sir

From Me to Everyone:
Good Afternoon Sir and All

From Meerabai.M to Everyone:
good afternoon all.

From Lavanya Veeran to Everyone:
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To: Everyone

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Zoom Meeting 40-Minutes

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PRECAUTIONS WHILE DESIGNING INSTRUMENTS

While preparing the questionnaire or the survey instrument, the researcher should take full care of the following aspects:

- 1) The items or the questions of the instruments **should be clear , specific, relevant and short.**
- 2) The respondents of the research should also be **capable enough to answer the questions.**
- 3) The researcher should have full empathy with the respondents and should **avoid those questions which might have a negative impact on the respondent.**
- 4) The researcher should also **avoid any kind of bias either towards the questions or towards the respondents** of the questions.

Dr Mahesh Kumar T

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Good Afternoon Sir and All

From Meerabai.M to Everyone:
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From Lavanya Veeran to Everyone:
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To: Everyone

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PRECAUTIONS WHILE DESIGNING INSTRUMENTS

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02:29 PM 27-05-2021

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There has been a rapid development of multivariate analysis which may be defined as "all statistical methods which simultaneously analyze more than two variables on a sample of observations"

Multiple Regression Analysis: This analysis is adopted when the researcher has one dependent variable which is presumed to be a function of two or more independent variables. The objective of this analysis is to **make a prediction about the dependent variable based on its covariance with all the concerned independent variables.**

Multiple Discriminant Analysis: This analysis is appropriate when the researcher has a single dependent variable that cannot be measured, but can be classified into two or more groups on the basis of some attribute. The objective of this analysis is **to predict an entity's possibility of belonging to a particular group based on several predictor variables.**

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Report Writing :

Research report is considered a major component of the research study; otherwise the research task remains incomplete. As a matter of fact, even the most brilliant hypothesis, highly well designed and conducted research study, and the most striking generalizations and findings are of little value unless they are effectively communicated to others. The purpose of research is not well served unless the findings are made known to others. Research results must invariably enter the general store of knowledge. All this explains the significance of writing research report.

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Chat

From Parvathy V to Everyone: 02:39 PM

- no of childrens
- No of students in a class

From Lavanya Veeran to Everyone: 02:40 PM

- To know the performance of the students may be

From Me to Everyone: 02:42 PM

- GDP of a Country - Measurable
- Intuition of Resposndents - Non Measurable

To: Everyone File

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Writing a research report is a technical activity which demands all the skills and patience from the researcher. It requires **"considerable thought, effort, patience and an overall approach to the problem, data and analysis, as well as firm control over language and greater objectivity"**. To write the report, a vast amount of planning and preparation is necessary for organizing and then writing the report. Besides, **perfection in the research report is achieved by continuous and persistent thought and creative and intelligent writing.**

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Conclusion

Social science methodology largely depends upon survey methods in its research endeavor as it has the advantage of wide scope to have a great deal of information from a larger population. It can also be adapted to obtain personal and social facts, beliefs and attitudes. It is also said that survey research method is an inappropriate tool for the study of multitudes.

The survey research **requires a considerable amount of research knowledge, experience and sophistication on the part of the investigator with reference to sampling and sampling procedure, construction of questionnaire/ schedule, art of interviewing, tabulation and analysis of data, report writing etc.** The contributions made by the psychologists, sociologists, anthropologists, economists, political scientists, and statisticians to the procedures and methods of survey research deserve mention.

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“Research comprises defining and redefining problems, formulating hypothesis or suggested solutions, collecting, organizing and evaluating data, making deductions and reaching conclusions; and at last carefully testing the conclusions to determine whether they fit the formulating hypothesis”

- Clifford Woody

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Introduction

Electronic Resource is defined **as a source which need computer access or any electronic item for consumption that distribute a compilation of information**, be it manuscript referring to complete book bases, electronic periodical, depiction, other multimedia products and arithmetical, graphical or time based, as a commercially obtainable label that has been published with an aim to being marketed. The data may store on CD ROM, on tape, via internet and so on. **The entry of modern library was changed the entire library system, it invented many new techniques for the storage of data which created the documents in an electronic form.**

Thus the librarians change the present situation into innovative techniques, namely electronic resources, It is a collection of data, files, journal, thesis etc., in an electronic form, all the data may digitalized, the user can use it through computer, smart phone via internet, through this e-resources the user can get numerous resources depending upon their needs, it will make them satisfy.

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Importance

The E-resources plays a vital role in the all over world, every user must knew the importance of e-resources, it is accepted by all kind of people because of its accessibility, affordability, usability and readability.

1. The information preserves at standard interval and can be reserved **always up-to-date in electronic media.**
2. Smooth the progress of **easy replication into new media and sharing the data.**
3. Incorporation of special media (**Image, Sound, Video etc.**)
4. Afford **hyper links** to related additional resources.
5. The electronic resources unresponsive to environment exposure and if handle with care, it will prove huge stability which cannot be attain on paper based print media.
6. **Saves massive time** by providing easy and immediate access without slaying time for processing, printing, binding and delivery.

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Contd.,

7. It also saves the space of the library.
8. It gives **awareness to the user community** such as PG students, research scholars, faculty, staff etc.
9. The user can get all the **data in digitalized format**, so there is no need for printing and binding.
10. The cost of e-resources is less than the print version
11. It allocates the interactive facility.
12. Have possible to preserve **delicate / valuable unique materials**.
13. To access and recover appropriate articles, number of search engines is available.

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Types of E-Resources

- E-Books :** www.digitalbookindex.com
www.bookbunker.biz
www.blackmask.com
- E-Journals**
- E-Zine:** www.indiatoday.com
www.musicindia.com etc.
- E-Thesis and dissertation (ETD) :** www.unesco.org/webworldtd/contribution.html
<http://scholar.lib.vt.edu/theses>
www.geocites.com
- E-News Papers:** India Today.com
USA today.com
Los Angeles Time
Mid Day
- E-Reference books :** Atlas, Dictionary, handbook thesaurus, encyclopedia
<http://www.britannica.com/>
<http://dictionary.cambridge.org/>

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Major Focus


Locating Research Papers

a) **Familiarizing with library database**

- Identifying papers using EBSCO, ProQuest, Wiley Online, Emerald, Sage, JSTOR, Google Scholar, Web of Science

b) **Familiarizing thesis**

- Awareness about thesis & research articles
- Awareness on government reports & business reports



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a) **Familiarizing with library database**

Identifying papers using

- Google scholar
- EBSCO
- ProQuest
- Wiley
- Emerald
- Sage
- Sci - Hub
- JSTOR
- Web of science
- Harvard Business Review



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- Google Scholar is a freely accessible web search engine that indexes the full text of scholarly literature across an array of publishing formats and disciplines.
- Google Scholar index includes
 - ✓ Most peer-reviewed online academic journals
 - ✓ Books
 - ✓ Conference papers
 - ✓ Theses and Dissertations
 - ✓ Preprints
 - ✓ Abstracts
 - ✓ Technical reports
- While Google does not publish the size of Google Scholar's database, researchers estimated it to contain roughly 389 million documents including articles, citations and patents making it the world's largest academic search engine in January 2018.

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 - ✓ Most peer-reviewed online academic journals
 - ✓ Books
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Dr Mahesh Kumar T

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Q. Find a participant

- L Lavanya Veeran
- M Meerab... Ask to Unmute More >
- MV MRS.THEBORAL VICTORIYA M
- M Muthukalyani T
- NM Nivedda MK
- PV Parvathy V
- PK Poornima KM
- PS Poornima S
- Prabhuraj J
- Praveen K B
- Princy Joseph
- SS SAKTHI S Ask to Unmute More >
- SV Sathyavathi V
- SD Sree Durga
- V vaishali
- YR Yuvaraj R

Invite Mute All

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Step 4: Copy reference

scholar.google.co.in/scholar?hl=en&as_sdr=0&C58q=business+analytics&oeq=business+

Google Scholar

business analytics

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Since 2020
Since 2017
Custom range...
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Sort by relevance
Sort by date

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pmj Emerging trends in business analytics
R Kohli, NU Rothleder, E Simoudis - Communications of the ACM, 2002 - dl.acm.org

Business Users Even with these advances, business users, while expert in their particular areas, are still unlikely to be expert in data analysis and statistics. To make decisions based on the data collected by and about their organizations, they must either rely on data analysts ...
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A unified foundation for business analytics
C Holappa, A Lee-Post, R Pakath - Decision Support Systems, 2014 - Elsevier

Synthesizing prior research, this paper designs a relatively comprehensive and holistic characterization of business analytics—one that serves as a foundation on which researchers, practitioners, and educators can base their studies of business analytics. As ...
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F Asilo, V Shams - 2014 - Elsevier

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Management challenges in creating value from business analytics
R Vogen, S Shaw, DB Grant - European Journal of Operational Research, 2017 - Elsevier

The popularity of big data and business analytics has increased tremendously in the last decade and a key challenge for organizations is in understanding how to leverage them to create business value. However, while the literature acknowledges the importance of these ...
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Using library database

Step 1: Click on Library Resource

CHRIST

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Library Resources

Databases +

E-Books +

E-Magazines +

Digital Repository +

RemoteXS

Print Journals +

Newspapers +

Institutional Membership +

E-shodhsindhu +

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• Step 2: Click data bases

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Library Resources

Databases -

EBSCO (Psychology)

EBSCO (Management)

SCC Online

Manupatra

ProQuest

PROWESS IQ CMIE

Taylor and Francis

Print Journals +

Newspapers +

Institutional Membership +

E-shodhsindhu +

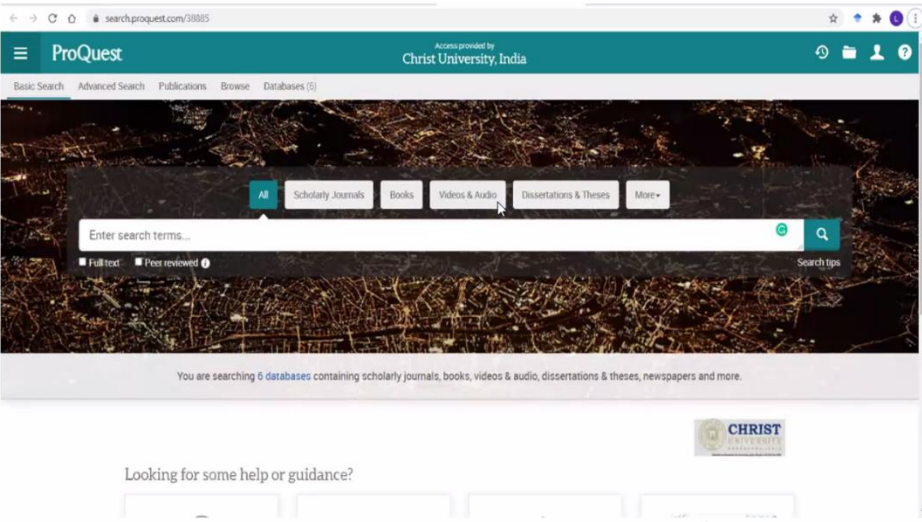
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• Step 3: Click ProQuest

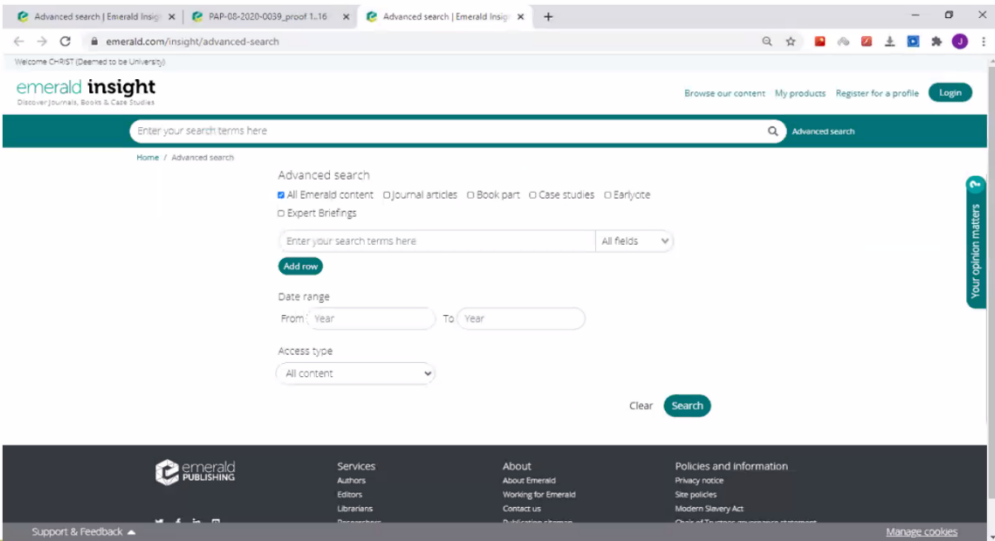


Looking for some help or guidance?

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Can Use advanced Search option for more customized search



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Conclusion

It is very familiar among the various fields of peoples, In fact, it is now hard to envisage a world without e-resources. The stipulation and use of e-resources is element of the complete system, to both the students, institutions and information professionals. The e-resources assist to deliver the sources to their user very fast, so the user time was saved. Nowadays e-resources have totally reduced the usage of paper material. These e-resources are convenient to use, reachable at a reasonable cost and can be accessed from anywhere and by many users concurrently, these databases are most advantageous utilize to put in to the academic excellence and achievement of its user community.



Thank You



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Preparation of Ph.D Synopsis

By
Dr.Sathish.P
Associate Professor
Bharath (Deemed to be University)

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Synopsis

- Detailed summary of the work with important results highlighting the original contributions in the thesis to be submitted. It should give an outline of the thesis.
- The review of earlier work is to be minimized with just enough to highlight the contributions in the research work to be reported in the thesis.
- **Synopsis has to be submitted before submission of Ph.D Thesis.**

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1. Cover Page & Title Page
2. Declaration
3. Table of Contents
4. Abstract (1 Page)

Chapter 1: Introduction

- Brief about the study
- Statement of the Problem
- Research Questions
- Research Objectives
- Research Hypothesis
- Limitations of the study

Chapter 2: Literature Review

- Highlights the Theory
- Mention only the crucial literature
- Mention recent literature

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Chapter 3: Research Methodology

- Description of the Variables used
- Instruments used
- Sampling Methods
- Determination of Sample Size
- Data Collection
- Mention areas or region where the data is collected
- Statistical tools used

Chapter 4: Data Analysis and Interpretation

- Mention important table and interpretation

Chapter 5: Findings and Conclusion

References

- Pointed references only in the body (As per the format)

List of Publications (From the Ph.D work)

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Chapter 3: Research Methodology

- Description of the Variables used
- Instruments used
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List of Publications (From the Ph.D work)

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Synopsis Draft (Sathish P 15PHD) x PhD SYNOPSIS MANUAL (1).pdf x

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influences the investment decision of DIIs. Moreover, when DIIs invest or withdraws from the market, it has an impact on FIIs. In addition, it also presents a proof that whenever there is any change in the NIFTY, both the FIIs and DIIs do make alternate decisions. The depreciation of INR against US\$ adversely affect the S&P CNX Nifty return. Further, any fluctuations or changes happen in the U.S. market index will cause the Indian stock market. Foreign portfolio investors prefer to invest in the emerging countries stock markets in order to get maximum return. For that, whenever the emerging market index is increases, FPI inflows from different countries will increase in Indian equity market. Since the majority of flows from U.S. in the form of foreign portfolio investments into India that causes the DJIA move towards downtrend.

Further, the study proven that there is bi-directional causality between the institutional investors (FPI and DII) and Indian stock market in the short run but no causation the long run. Foreign Portfolio Investors are positive feedback traders while Domestic Institutional Investors are negative feedback traders in the Indian stock market.

FPI and DII net inflows are significantly influenced by S&P CNX Nifty return in both short run as well as long run. Also, the other macroeconomic factors such as Domestic

Sathish P

Participants (19)

Q. Find a participant

GOWTHAM R (Host, me) Sathish P Aashiek Cheriyan Anitha G Anitha M Bhuvaneswari Devaraj

Invite Mute All

Chat

From Me to Everyone: Good Afternoon Satish Sir

From Sathish P to Everyone: Gud afternoon

From Prabhuraj J to Everyone: good afternoon

To: Everyone File

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Plagiarism

The term plagiarism denotes the illegal or unauthorized use of someone else's work and passes it off under their names.

Plagiarism is the stealing of intellectual properties. Copying of any artwork, written piece, blogs, and PowerPoint presentation is illegal, and these can give rise to instances of plagiarism.

Use Turnitin Software for checking your article, thesis and dissertation



Sathish P

UnmuteStart Video

SecurityParticipants12ChatShare ScreenPause/Stop RecordingReactions

End

Recording...

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View

Removing Plagiarism

Step 1: Writing in own words

Step 2: Proper use of citations

Step 3: Use of synonyms and article rewriter (smallseotools)

Sathish P

UnmuteStart Video

SecurityParticipants23ChatShare ScreenPause/Stop RecordingReactions

End

Zoom Meeting You are viewing Sathish P's screen View Options

Recording... View

PLAGIARISM CHECKERS AVAILABLE

Paid (provided by Institutions)	Free Sources
Drillbit	Viper
Unicheck	Duplicheck
Plagiarism.org	Plagscan
Turnitin	Grammerly
Urkund	
Plagiarismchecker.com	
Plagiatrismdetector.com	
shodhshuddi	



Sathish P

Participants (22)

Q. s

- Sathish P
- SS SAKTHI S
- SD Sree Durga
- PS Poornima S
- AC Aashiek Cheriyan
- MV MRS.THEBORAL VICTORIYA M

Invite Mute All ...

Chat

From Parvathy V to Everyone:
screen is not visible

From Davis Joseph to Everyone:
ok

From Parvathy V to Everyone:
ok sir

To: Everyone File ...

Type message here...

Unmute Start Video Security Participants 22 Chat Share Screen Pause/Stop Recording Reactions End

Type here to search 36°C Partly sunny ENG 02:24 PM 30-05-2021

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Recording... View

Choosing Reputed Journals for Publications

- Select the Journal based on the scope of study and quality of your manuscript
- If your study contents covers under the scope of the journal, then select the journal
- Check the particular journal website where it has indexed in such as Scopus, ABDC, WoS, EBSCO, UGC Care list.
- Also, need to be cross verified with indexed list
- Read the author guidelines, paid or unpaid and prepare your manuscript as per their format.
- Consider the review process for the particular journal
- Submit your manuscript through online in the given website

Sathish P

Participants (24)

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View Options

Recording...

Various Indexing Database

- SCI (Science Citation Index)
- SCIE (Science Citation Index Expanded)
- Scopus Index
- Emerging Source Citation Index (ESCI)
- Social Citation Index (SCI)
- EBSCO
- Directory of Open Access Journals (DOAJ)
- Google Scholar
- ABDC Listed Database

Sathish P

Participants (24)

Search

Sathish P

SS SAKTHI S

SV Sathyavathi V

SD Sree Durga

PS Poornima S

AC Aashiek Cheriyan

Invite Mute All

Chat

From Parvathy V to Everyone: screen is not visible

From Davis Joseph to Everyone: ok

From Parvathy V to Everyone: ok sir

To: Everyone

Type message here...

Unmute Start Video Security Participants 24 Chat Share Screen Pause/Stop Recording Reactions End

Type here to search

36°C Partly sunny

ENG 02:37 PM 30-05-2021

Zoom Meeting

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View Options

Recording...

In which Journal You Can Publish?

You can publish in a free/unpaid Scopus or SCI or SCIE or any other indexed journal have peer review.

Don't go for Predatory Journal for publication

Sathish P

Participants (24)

Search

Sathish P

SS SAKTHI S

SV Sathyavathi V

SD Sree Durga

PS Poornima S

AC Aashiek Cheriyan

Invite Mute All

Chat

From Parvathy V to Everyone: screen is not visible

From Davis Joseph to Everyone: ok

From Parvathy V to Everyone: ok sir

To: Everyone

Type message here...

Unmute Start Video Security Participants 24 Chat Share Screen Pause/Stop Recording Reactions End

Type here to search

36°C Partly sunny

ENG 02:39 PM 30-05-2021

Zoom Meeting

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Recording...

1. Citation
2. Self Citation
3. Impact Factor
4. H-Index
5. I10-Index
6. h -Index Vs i10- index

Sathish P

Participants (24)

Sathish P
SS SAKTHI S
SV Sathyavathi V
SD Sree Durga
PS Poornima S
AC Aashiek Cheriyen

Chat

From Parvathy V to Everyone:
screen is not visible

From Davis Joseph to Everyone:
ok

From Parvathy V to Everyone:
ok sir

To: Everyone

Unmute Start Video Security Participants 24 Chat Share Screen Pause/Stop Recording Reactions End

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Recording...

Impact Factor of a journal is defined as total number of citations for the articles published in a proceeding 2 years divided by total number articles published in 2 years.
Value of the journal can be estimated by IF

The Journal of FINANCE
The Journal of THE AMERICAN FINANCE ASSOCIATION

Edited By: Stefan Nagel
Impact factor: 6.813
2019 Journal Citation Reports (Clarivate Analytics): 2/109 (Business, Finance) 5/373 (Economics)
Online ISSN: 1540-6261
© American Finance Association

Sathish P

Participants (23)

Lavanya Veeran
Meerabai.M
MRS.THEBORAL VICTORIYA M
Muthukalyani T
Nivedda MK
Parvathy V
Poornima KM
Poornima S
Prabhuraj J
Praveen K B
Princy Joseph
Prithivi
SAKTHI S
Sathyavathi V
Sree Durga
vaishali

Chat

Find a participant

Unmute Start Video Security Participants 23 Chat Share Screen Pause/Stop Recording Reactions End

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Recording... View

- **Self Citation:** It refers your own previously published articles
- **Institutional Citation:** is individuals belongs to same institution referring previously published articles.

h-Index

It is an author level metric calculated by counting the number publication for which an author has been cited by other authors at least that same number of times.

N number of article cited by N times, the h index will be the N

Example: If a researcher has 15 papers, each of which has at least 15 citations, their **h-index** is 15.

Sathish P

Participants (23)

Q. Find a participant

- L Lavanya Veeran
- M Meerabai.M
- MV MRS.THEBORAL VICTORIYA M
- M Muthukalyani T
- NM Nivedda MK
- P Parvathy V
- PK Poornima KM
- PS Poornima S
- Prabburaj J
- Praveen K B
- Princy Joseph
- P Prithivi
- SS SAKTHI S
- SV Sathyavathi V
- SD Sree Durga
- V vaishali

Unmute Start Video Security Participants 23 Chat Share Screen Pause/Stop Recording Reactions End

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Recording... View

PLAGIARISM CHECKERS AVAILABLE

Paid (provided by Institutions)	Free Sources
Drillbit	Viper
Unicheck	Duplicheck
Plagiarism.org	Plagscan
Turnitin	Grammerly
Urkund	
Plagiarismchecker.com	
Plagiatrismdetector.com	
shodhshuddi	

Sathish P

Chat

From Meerabai.M to Everyone:
Not audible sir.

From Parvathy V to Everyone:
screen is not visible

From Davis Joseph to Everyone:
ok

From Parvathy V to Everyone:
ok sir

From Meerabai.M to Everyone:
audio gone.

From Davis Joseph to Everyone:
Sir, can you please share the slide with the name of plagiarism checking tools.

From Parvathy V to Everyone:
Removing plagiarism
step 2: can you give some example like how to write with a proper use of citation.



To: Everyone File Type message here...

Mute Start Video Security Participants 21 Chat Share Screen Pause/Stop Recording Reactions End

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Pondicherry Central University

Scientific Research...



2
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Pondicherry Central University

Hypothesis Development and Validation of Data Collection Instrument in Scientific Research...

❑ Scientific Research Process

1. Defining the Research Problem
2. Drafting the Objectives & Hypothesis
3. Methodology (Research & Survey Design)
4. Data Collection
5. Data Analytics (Analysis)
6. Report Writing
7. Submission for Evaluation
8. Presentation
9. Publication
10. Further Research



3
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Pondicherry Central University

Hypothesis Development and Validation of Data Collection Instrument in Scientific Research...

- 1 • Questionnaire Preparation
- 2 • Validity & Reliability Analysis
- 3 • Hypothesis Framing & Testing
- 4 • Data Analytics

4
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Pondicherry Central University

Case Study... "Students Teachers Relationship in Schools"

- A primary survey was conducted to understand the "Students Teachers relationship in Schools" with the sample teachers of 30. Fifteen attributes were identified through review of literature and a 5 point scale (Strongly Agree to Strongly disagree) was prepared for data collection.
- See Questionnaire

5
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Questionnaire Preparation... ***

- 1 Data Collection Tool
- 2 Questionnaire / Interview Schedule
- 3 Open Ended / Closed Ended
- 4 Scaled / Un-scaled

6
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Dr.V.Arulmurugan

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Questionnaire STR - Microsoft Word

Home Insert Page Layout References Mailings Review View Developer

Times New Roman 10

1 Normal 1 No Spac... Heading 1 Heading 2 Title Subtitle Subtitle Em... Emphasis Change Styles Editing

A STUDY ON STUDENT-TEACHER RELATIONSHIP IN SCHOOLS

Name & Address:

1. Age group : ☐ Below 20 years ☐ 20-40 years ☐ Above 40 years

2. Sex : ☐ Male ☐ Female

3. Education : ☐ Metric SSLC ☐ Higher Secondary ☐ Under Graduate
☐ Post Graduate ☐ Others (please specify)

4. Occupation : ☐ Government ☐ Private Sector

5. Marital Status : ☐ Married ☐ Un married

6. Annual Income : ☐ Below 1,00,000 ☐ Rs.1,00,000-Rs.2,00,000
☐ Rs.2,00,000-Rs.3,00,000 ☐ Above Rs.3,00,000

7. Annual Family Income : ☐ Below Rs.3,00,000 ☐ Rs.3,00,000 to Rs.6,00,000
☐ Above Rs.6,00,000

8. Locality : ☐ Rural ☐ Urban ☐ Semi Urban

9. Work Experience : ☐ Below 1 year ☐ 1-3 years ☐ More than 3 years


10. Give your perception on your relationship with students:

Particulars	Strongly Agree	Agree	Neutral	Dis Agree	Strongly Disagree
I share an affectionate, warm relationship with this child.					
If upset, this child will seek comfort from me.					
This child and I always seem to be trusting each other.					

Running virus scan...

Dr.V.Arulmurugan

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Pondicherry
Central
University

Hypothesis Framing & Testing...

Focus of the Objectives	Researchability of Objectives	
	Association (A)	Differences (D)
	PA	PD
	DA	DD
	EA	ED
	PA	PD

10

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Security

Participants 19

Chat

Share Screen


Pause/Stop Recording

Reactions

End



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Central
University

Hypothesis Framing & Testing...

Focus of the Objectives	Researchability of Objectives	
	Association (A)	Differences (D)
	PA	PD
	DA	DD
	EA	ED
	PA	PD

10

Unmute Start Video

Security

Participants 19

Chat

Share Screen

Pause/Stop Recording

Reactions

End



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Pondicherry Central University

Hypothesis Framing & Testing...

- **Association**
 - There is no significant association between Variable 1 and Variable 2
- **Difference**
 - There is no significant differences between Variable 1 on Variable 2

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Participants (21)

Q. Find a participant

- B Bhuvaneswari.D
- B Bincy A Varghese
- DJ Davis Joseph
- D Dr.S.Chitra
- EM Ezhil Maran
- L Lavanya Veeran

Invite Mute All

Chat

From Parvathy V to Everyone:
Sir how to check reliability for ordinal data?
ok sir

From Davis Joseph to Everyone:
yes sir

To: Everyone File

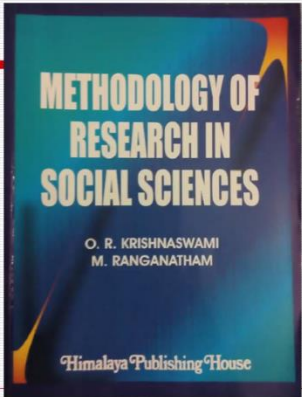
Type message here...

Unmute Start Video Security Participants 21 Chat Share Screen Pause/Stop Recording Reactions End

Type here to search 38°C 03:10 PM 31-05-2021

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Dr.V.Arulmurugan

Participants (21)

Q. Find a participant

- B Bhuvaneswari.D
- B Bincy A Varghese
- DJ Davis Joseph
- D Dr.S.Chitra
- EM Ezhil Maran
- L Lavanya Veeran

Invite Mute All ...

Chat

From Parvathy V to Everyone:

Sir how to check reliability for ordinal data.?

ok sir

From Davis Joseph to Everyone:

yes sir

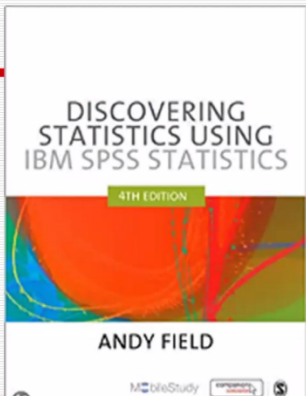
To: Everyone File ...

Type message here...

Unmute Start Video Security Participants 21 Chat Share Screen Pause/Stop Recording Reactions End

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Pondicherry Central University

Dr.V.Arulmurugan

Participants (21)

Q. Find a participant

- B Bhuvaneswari.D
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- DJ Davis Joseph
- D Dr.S.Chitra
- EM Ezhil Maran
- L Lavanya Veeran

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To: Everyone File ...

Type message here...

Unmute Start Video Security Participants 21 Chat Share Screen Pause/Stop Recording Reactions End


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RESEARCH

Pondicherry Central University

Scientific Researcher - Required Skills...

- ☐ Typing & Formatting
- ☐ Online Material Collection
- ☐ Data Collection & Analytics
- ☐ Conceptual & Statistical Significance
- ☐ Drafting & Proof Reading
- ☐ Logical Thinking & Doing
- ☐ Multi Tasking
- ☐ Understanding with Supervisors



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RESEARCH

Pondicherry Central University

Scientific Researcher - Required Skills...

- ☐ Typing & Formatting
- ☐ Online Material Collection
- ☐ Data Collection & Analytics
- ☐ Conceptual & Statistical Significance
- ☐ Drafting & Proof Reading
- ☐ Logical Thinking & Doing
- ☐ Multi Tasking
- ☐ Understanding with Supervisors
- ☐ Get Help from Others




18

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Pondicherry Central University

Scientific Researcher - Required Skills...

- ☐ Typing & Formatting
- ☐ Online Material Collection
- ☐ Data Collection & Analytics
- ☐ Conceptual & Statistical Significance
- ☐ Drafting & Proof Reading
- ☐ Logical Thinking & Doing
- ☐ Multi Tasking
- ☐ Understanding with Supervisors
- ☐ Get Help from Others
- ☐ **Do it by Your Self...**



18

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