

**School of Commerce, Finance & Accountancy and
School of Business & Management**

**Report on the Online Research Workshop on “Structural Equation Modelling using
AMOS”**

Held on 20th March, 2021 at 9:30 A.M-1:30 P.M

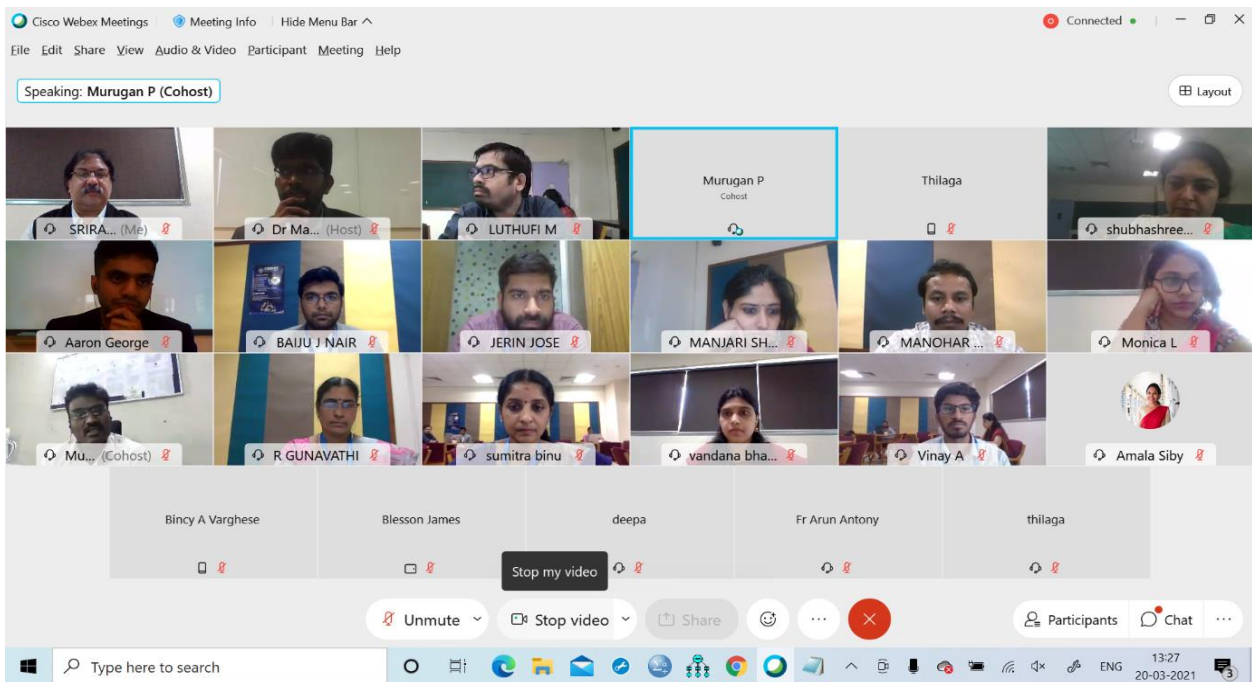
The School of Commerce, Finance and Accountancy and the School of Business and Management of CHRIST (Deemed to be University), Pune Lavasa Campus – The Hub of Analytics organized an Online Workshop on “Structural Equation Modelling using AMOS” on Saturday, the 20th of March.

About the Workshop

In management research, theory development and theory testing are widely used practice. Methodologists have developed structural equation modelling techniques by integrating the features of multiple regression and factor analysis. Theory testing or theory confirmation is the process of testing the proposed theoretical model with the data. In SEM the model fit values are used as a criterion to assess the fit of the data with the theoretical model. In the recent literature, in most of the cases, researchers have used a structural equation modelling approach to test their theories.

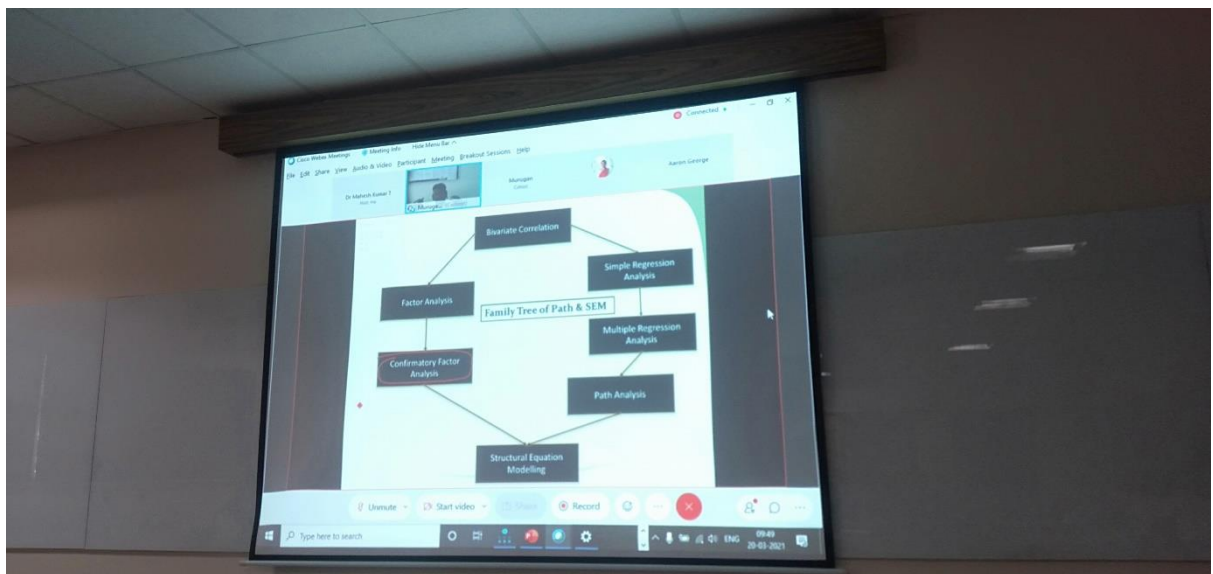
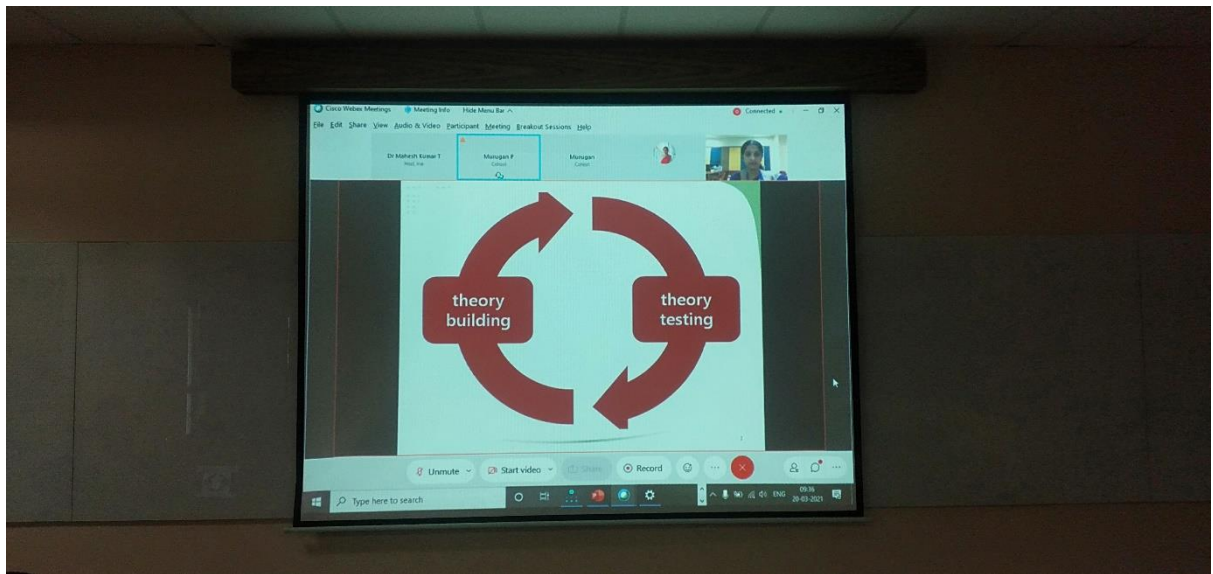
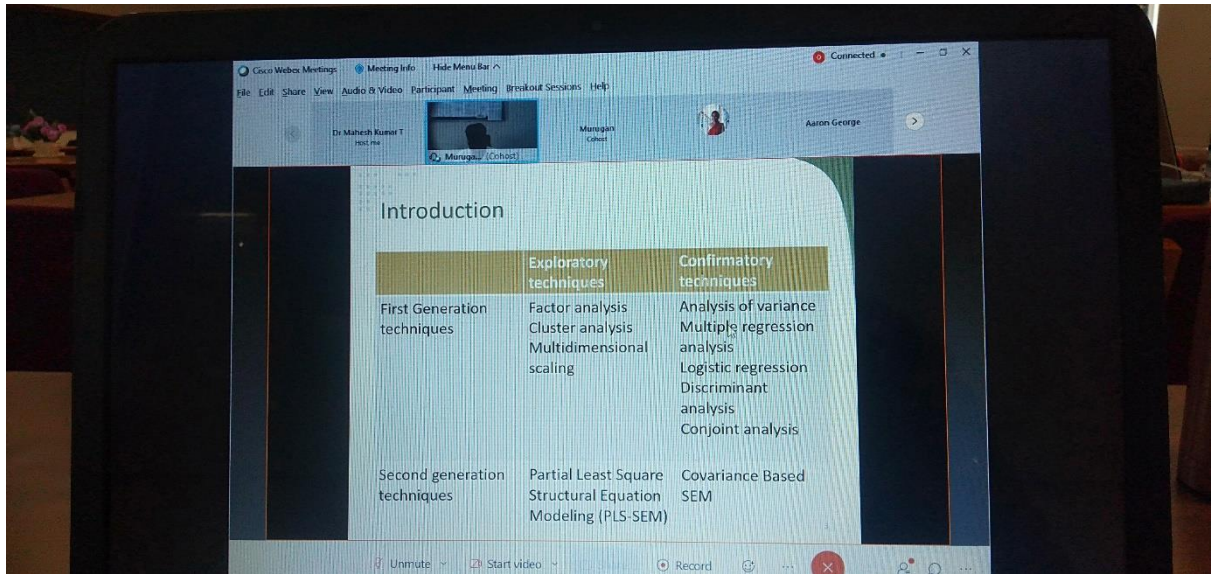
About the Speaker

The guest speaker for the workshop was Dr P Murugan. Dr P. Murugan has worked as a Data Analyst at the Australian Council for Educational Research, New Delhi, and the National Institute of Technology, Tiruchirappalli. He holds a deep passion for research and has served as a resource person for several workshops and FDP programs held at many universities across India. He has papers published in Thomson Reuter’s impact factor (SSCI) and ABDC listed journals along with several papers presented at both the national and International Level. He currently works as an Assistant Professor in the School of Management Studies in the University of Hyderabad.



Proceedings of the Workshop:

The workshop began at 9:30 AM with the welcome address being delivered by one of the organizers of the workshop, Dr Mahesh Kumar T. Following the welcome address, Dr P Murugan commenced the workshop.



Dr Murugan detailed the usage of AMOS, covering topics such as:

1. Introduction to Structural Equation Modeling
2. Literature evidence on SEM
3. Introduction to Confirmatory factor analysis
4. Construct validity
5. Testing SEM models
6. Reporting the SEM results in paper/thesis

The workshop ran for four hours, concluding at 1:30 PM. Mr Aaron George of the School of Commerce, Finance and Accountancy delivered the vote of thanks, thanking the management, the organizers, the guest speaker and the attendees.



Prepared by

Mr Aaron George



School of Commerce, Finance & Accountancy

School of Business & Management



CHRIST

(DEEMED TO BE UNIVERSITY)

PUNE LAVASA CAMPUS
The Hub of Analytics

ONLINE RESEARCH WORKSHOP

Structural Equation Modeling Using AMOS



20th March 2021

09:30 AM - 01:30 PM

PLATFORM

Cisco
WebEx

Resource Person

Dr. P. Murugan

Assistant Professor
HRM and Analytics

School of Management Studies,
University of Hyderabad (UoH), Hyderabad.



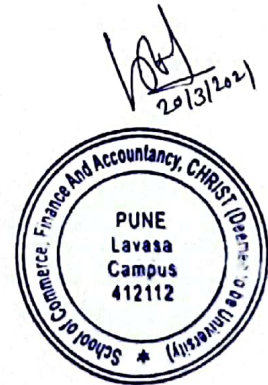
CHRIST (Deemed to be University), Pune Lavasa Campus - 'The Hub of Analytics'

☎ 1800 123 2009

Handwritten signature and date: 20/3/2021



Christ (Deemed to be University) Pune Lavasa	
School of Commerce, Finance & Accountancy	
AMOS Workshop Attendance	
Date: 20 March 2021	
Resource Person: Dr. P Murgan	
S.No	Name
1	Jerin Jose
2	Vandana Bhagat
3	Dr.R.Gunavathi
4	BINCY A VARGHESE
5	Blesson James
6	Sumitra Binu
7	Amala Siby
8	Manohar Giri
9	Shubhashree Acharya
10	Manjari Sharma
11	Baiju J Nair
12	Luthufi
13	Sriram.M
14	Vinay A
15	Monica L
16	Lt Dinesh Kumar R
17	K.Deepa
18	Dr Mahesh Kumar T



Online Research Workshop on "Structural Equation Modeling using AMOS"

2 messages

Maheshkumar T School of Business and Management <maheshkumar.t@christuniversity.in> Fri, Mar 19, 2021 at 3:58 PM
Bcc: JOSSY P GEORGE <frjossy@christuniversity.in>, Arun Antony Chully School of Business and Management <frarun@christuniversity.in>, Jayant Mahajan School of Business and Management <jayant.mahajan@christuniversity.in>, SUMITRA BINU <sumitra.binu@christuniversity.in>, Deepa Kumaravelan <deepampahlhr@gmail.com>, thilagaasakthivel@gmail.com, ba3132@srmlst.edu.in, MONICA L <monica.l@christuniversity.in>, Stanny Dias School of Business and Management <stanny.dias@christuniversity.in>, blesson.james@christcollegepune.org, Dinesh Kumar R Commerce <dinesh.kumar@christuniversity.in>, poonam.usb@cumall.in, MANJARI SHARMA <manjari.sharma@christuniversity.in>, Luthufi M <luthufi.m@christuniversity.in>, VANDANA VIJAY BHAGAT <vandana.bhagat@christuniversity.in>, VINAY A <vinay.a@christuniversity.in>, BAIJU J NAIR <baiju.nair@christuniversity.in>, Sriram M School of Business and Management <sriram.m@christuniversity.in>, Shubhashree P K School of Business and Management <shubhashree.acharya@christuniversity.in>, Tripti Mahara School of Business and Management <tripti.mahara@christuniversity.in>

Dear Participants,

Greetings !!

First of all, I want to convey my sincere thanks to you for registering for the Workshop.

Herewith I am sending the Details, Software to be Installed, and Joining link for the Online Research Workshop on **"Structural Equation Modeling using AMOS" on 20.03.2021 (Saturday)**

Time: 09.30 am to 01.30 pm

Online Research Workshop

Hosted by Dr. Mahesh Kumar T

<https://christlavasa.webex.com/christlavasa/j.php?MTID=macb98ecb56916af1c02be4a557f89cc1>

Saturday, Mar 20, 2021, 9:00 am | 5 hours | (UTC+05:30) Chennai, Kolkata, Mumbai, New Delhi

Meeting number: 184 108 4744

Password: 987654321

Join by video system

Dial 1841084744@christlavasa.webex.com

You can also dial 210.4.202.4 and enter your meeting number.

Join by phone

+65-6703-6949 Singapore Toll

Access code: 184 108 4744

About the Workshop

In management research, theory development and theory testing is the widely used practice. Methodologists have developed structural equation modeling techniques by integrating the features of multiple regression and factor analysis. Theory testing or theory confirmation is the process of testing the proposed theoretical model with the data. In SEM the model fit values are used as a criterion to assess the fit of the data with the theoretical model. In the recent literature, in most of the cases, researchers have used a structural equation modeling approach to test their theories.

Objectives of the workshop:

1. To understand the confirmatory factor analysis to test the measurement theory.
2. To understand the structural equation modeling testing process.
3. To identify the method variance effect in the confirmatory factor analysis model

Topics to be covered in the workshop are:

1. Introduction to Structural equation Modeling
2. Literature evidence on SEM
3. Introduction to Confirmatory factor analysis
4. Construct validity
5. Testing SEM models
6. Reporting the SEM results in paper/thesis

Prerequisite:

1. Basic understanding of research methods.
2. Understanding basic statistics, exploratory factor analysis, and multiple regression analysis.
3. Basic understanding of AMOS.

Useful references:

1. Chen, F., Bollen, K. A., Paxton, P., Curran, P. J., & Kirby, J. B. (2001). Improper solutions in structural equation models: Causes, consequences, and strategies. *Sociological Methods & Research*, 29(4), 408-508.
2. Jackson, D. L., Gillaspay Jr, J. A., & Purc-Stephenson, R. (2009). Reporting practices in confirmatory factor analysis: an overview and some recommendations. *Psychological methods*, 14(1), 6.
3. Peter, J. P. (1981). Construct validity: A review of basic issues and marketing practices. *Journal of marketing research*, 18(2), 133-145.
4. Schreiber, J. B., Nora, A., Stage, F. K., Barlow, E. A., & King, J. (2006). Reporting structural equation modeling and confirmatory factor analysis results: A review. *The Journal of educational research*, 99(6), 323-338.
5. Ullman, J. B. (2006). Structural equation modelling: Reviewing the basics and moving forward. *Journal of personality assessment*, 87(1), 35-50.
6. Williams, L. J., Vandenberg, R. J., & Edwards, J. R. (2009). 12 structural equation modeling in management research: a guide for improved analysis. *The Academy of Management Annals*, 3(1), 543-604.
7. Byrne, B. M. (2013). *Structural equation modelling with AMOS: Basic concepts, applications, and programming*. Routledge.
8. Hair, J. F., Black, W. C., Babin, B. J., Anderson, R. E., & Tatham, R. L. (2013). *Multivariate data analysis*, 7/e. Pearson India.

Software used in the workshop:

1. Excel
2. SPSS and AMOS. Trial version link is available here: https://drive.google.com/drive/folders/1lo9CcBx1y292_I0o8SYHS-GLnFoQBjJL?usp=sharing

About the speaker:

Dr. P. Murugan is working as an Assistant Professor in the School of Management Studies and assisting Centre for Digital Learning Training & Resources as an Additional Director at the University of Hyderabad (UoH), Hyderabad. Before joining UoH he worked as a Data Analyst at the Australian Council for Educational Research, New Delhi, and the National Institute of Technology, Tiruchirappalli. He has a passion for Research and he has been a resource person for more than 150 workshops and FDP programs held at many universities and B-Schools in India (e.g., IIT Bombay, SPJIMR-Mumbai, Anna University-Chennai, NIT-Trichy, NIT-Calicut, CUSAT-Cochin, VIT-Vellore).

His expertise lies in the areas of Multivariate Data Analysis Techniques, Mediation Analysis, Moderation Analysis, Structural Equation Modeling, Latent Profile Analysis, and Item Response Theory. He is also familiar with data analysis software such as Mplus, AMOS, Python, R, JAMOVI, JASP, SPSS, Bluesky Statistics, Conquest, and IRT pro.

His papers are published in SSCI, ABS and ABDC listed journals. During the COVID-19 pandemic, he has started to offer online workshops in the area of ICT tools in education, Open educational resources, MOOC course development process, HR analytics, and interacted with more than 10,000 participants. He has developed online lecture videos for three of the courses offered through the SWAYAM platform.

Kindly Install the software by today itself. The datasets will be shared tomorrow by the External Expert during the session.

Make sure that, you are muted throughout the session and for any queries/clarifications kindly use the chatbox. It will be addressed/discussed at the end of the session.

With Regards,

Dr. Mahesh Kumar.T
Assistant Professor
School of Commerce, Finance & Accountancy
CHRIST (Deemed to be University)
Pune Lavasa Campus - The Hub of Analytics

Mob: 80563 99905, 94895 49905

Maheshkumar T School of Business and Management <maheshkumar.t@christuniversity.in> Fri, Mar 19, 2021 at 4:22 PM
To: Amala Siby School of Business and Management <amala.siby@christuniversity.in>

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