



**J.K.K.MUNIRAJAH MEDICAL RESEARCH FOUNDATION'S
ANNAI JKK SAMPOORANI AMMAL COLLEGE OF PHARMACY**

Ethirnedu, B.Komarapalayam – 638 183, Namakkal Dist. Tamilnadu. India
Approved by : Pharmacy Council of India, New Delhi & The Tamilnadu Dr.M.G.R Medical University, Chennai.
Website : www.jkkmmrfpharmacy.edu.in | E-Mail : principal@jkkmmrfpharmacy.edu.in
Contact No. : +919789456750, +919943069944, +919943066944

DATE: 07/04/21

DEPARTMENT OF PHARMACY PRACTICE

REPORT

WORKSHOP -Structural Equation Modeling with 'Smart PLS'

VENUE: SEMINAR HALL

DATED: 05/04/21

RESOURCE PERSON

Mr. A.SRINIVASAN, M.PHARM.

Associate Professor, JKKMMRF's Annai JKK Sampoorani Ammal
College of Pharmacy, Komarapalayam.

No. of students enrolled: 250

No. of students certified: 250

No. of students certified in our Institution : 38

On 05/04/21, a workshop on structural equation modeling with "Smart PLS" was held at JKKMMRF's College of Pharmacy in the seminar hall. The workshop was attended by 250 students and aimed to provide an introduction to structural equation modeling and the use of the "Smart PLS" software for conducting such analyses.

The workshop began with a presentation on the basics of structural equation modeling, including the concepts of latent variables and measurement models. The facilitator discussed the advantages of structural equation modeling over traditional regression techniques, and the various steps involved in conducting a structural equation model analysis.

The workshop concluded with a discussion on best practices for using structural equation modeling and "Smart PLS" in research. The facilitator emphasized the importance of carefully planning and designing the analysis, and the role of "Smart PLS" in providing a user-friendly and powerful tool for conducting such analyses.

Overall, the workshop provided valuable insights and practical skills for using structural equation modeling and "Smart PLS" in research. The students who attended the workshop left with a better understanding of the concepts and techniques involved in structural equation modeling, and the skills needed to effectively use "Smart PLS" in their own research.

A. Srinivasan
Programme Co-ordinator

[Signature]
Principal

**Dr. N.SENTHILKUMAR,
PRINCIPAL**

JKK MUNIRAJAH MEDICAL RESEARCH FOUNDATION
ANNAI JKK SAMPOORANI AMMAL COLLEGE OF PHARMACY
ETHIRMEDU, KOMARAPALAYAM - 638 183.
NAMAKKAL DISTRICT, TAMILNADU, INDIA.



[Signature]
**Dr. N.SENTHILKUMAR,
PRINCIPAL**

**JKK MUNIRAJAH MEDICAL RESEARCH FOUNDATION
ANNAI JKK SAMPOORANI AMMAL COLLEGE OF PHARMACY
ETHIRMEDU, KOMARAPALAYAM - 638 183.
NAMAKKAL DISTRICT, TAMILNADU, INDIA.**



**J.K.K.MUNIRAJAH MEDICAL RESEARCH FOUNDATION'S
ANNAI JKK SAMPOORANI AMMAL COLLEGE OF PHARMACY**

Ethirmedu, **B.Komarapalayam** – 638 183, Namakkal Dist. Tamilnadu. India
Approved by : Pharmacy Council of India, New Delhi & The Tamilnadu Dr.M.G.R Medical University, Chennai.
Website : www.jkkmmrfpharmacy.edu.in | E-Mail : principal@jkkmmrfpharmacy.edu.in
Contact No. : +919789456750, +919943069944, +919943066944

Date: 29/03/2021

REF.NO: JKKM/PH/WORKSHOP/REQ/2021/02

From

Department of Pharmacy Practice
JKKMMRF'S Annai JKK Sampoorani Ammal College of Pharmacy.
Komarapalayam, Namakkal [Dist]
Tamil Nadu, PIN:638183.

To

The Principal,
JKKMMRF'S Annai JKK Sampoorani Ammal College of Pharmacy.
Komarapalayam, Namakkal [Dist]
Tamil Nadu, PIN:638183.

Respected Sir,

Sub: Letter for requesting Permission to Conduct workshop regarding:-

We Are writing this letter to request permission to conduct a workshop in the Seminar hall on 05/04/21. We wish to conduct the workshop on **Structural Equation Modeling with 'Smart PLS'**. We believe that this will be a very informative session that many students will wish to attend.

We request you to kindly permit to conduct training program as this would be a great opportunity for Students to learn all about **Structural Equation Modeling with 'Smart PLS'** that would help to shape the students.

Looking forward for your approval.

Thanking you

Yours sincerely,

Dr. N. SENTHILKUMAR,
PRINCIPAL,

**JKK MUNIRAJAH MEDICAL RESEARCH FOUNDATION
ANNAI JKK SAMPOORANI AMMAL COLLEGE OF PHARMACY,
ETHIRMEDU, KOMARAPALAYAM - 638 183.
NAMAKKAL DISTRICT, TAMILNADU.**





**J.K.K.MUNIRAJAH MEDICAL RESEARCH FOUNDATION'S
ANNAI JKK SAMPOORANI AMMAL COLLEGE OF PHARMACY**

Ethirmedu. **B.Komarapalayam** – 638 183, Namakkal Dist. Tamilnadu. India
Approved by : Pharmacy Council of India, New Delhi & The Tamilnadu Dr.M.G.R Medical University, Chennai.
Website : www.jkkmmrfpharmacy.edu.in | E-Mail : principal@jkkmmrfpharmacy.edu.in
Contact No. : +919789456750, +919943069944, +919943066944

Circular

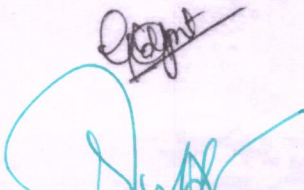
This is to inform all the students of our college that the workshop on **Structural Equation Modeling with 'Smart PLS'** for the academic year 2021-2022 will be commenced on 05/04/21 for all the batches. Hence request all the interested candidates to register for the workshop.

Course Name	Schedule	Venue	Resource Person
Structural Equation Modeling with 'Smart PLS'.	05/04/21	SEMINAR HALL	A.SRINIVASAN

All the above mentioned students must enrol and actively participate in the course without fail.

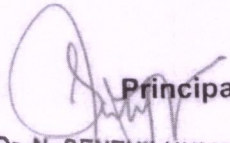
NOTE: Certificates should be issued to all the students after completion of the course and examination.

Programme Co-ordinator

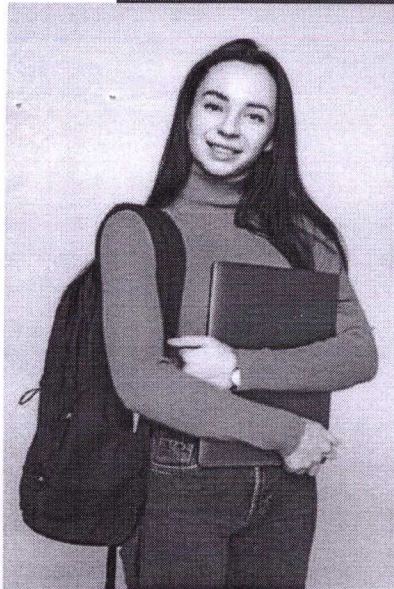

Dr. N.SENTHILKUMAR,
PRINCIPAL



Principal


Dr. N. SENTHILKUMAR,
PRINCIPAL,
JKK MUNIRAJAH MEDICAL RESEARCH FOUNDATION
ANNAI JKK SAMPOORANI AMMAL COLLEGE OF PHARMACY,
ETHIRMEDU, KOMARAPALAYAM - 638 183,
NAMAKKAL DISTRICT, TAMILNADU.

JKK MUNIRAJAH MEDICAL RESEARCH FOUNDATION
ANNAI JKK SAMPOORANI AMMAL COLLEGE OF PHARMACY
ETHIRMEDU, KOMARAPALAYAM - 638 183,
NAMAKKAL DISTRICT, TAMILNADU, INDIA.



RESOURCE PERSON

A. Srinivasan
Associate Professor,
JKKMMRF'S College Of Pharmacy,
Komarapalayam, Nammakal
Dist-638183

WORKSHOP

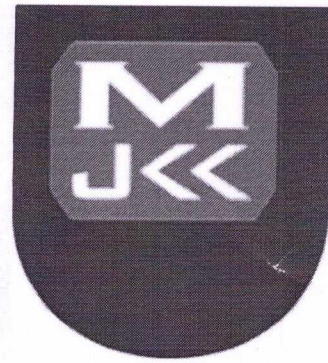
TOPIC: Structural
Equation modeling
with 'Smart PLS'

Date : 05/04/21

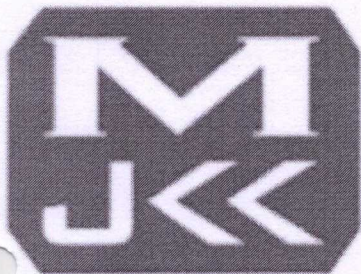
Venue: Seminar Hall

Structural equation modeling (SEM) is a statistical technique used to test and estimate relationships between variables in complex systems. Smart PLS is a software tool that can be used to assist with the analysis of data using SEM.

On 5th April 2021, a workshop on structural equation modeling with Smart PLS was held in the seminar hall at JKKMMRF's College of Pharmacy. The workshop was designed to provide participants with an in-depth understanding of the principles and process of conducting SEM, as well as the tools and techniques needed to effectively analyze data using Smart PLS.



**JKKMMRF'S-
SAMPOORANI
AMMAL COLLEGE OF PHARMACY**
komarapalayam, Nammakal
Dist-638183



The workshop was led by experienced experts in the field, who provided participants with a step-by-step guide to conducting SEM and using Smart PLS for data analysis. Topics covered included:

- The principles of SEM and its strengths and limitations
- Defining a research model and selecting the appropriate SEM technique
- Collecting and organizing data for SEM analysis
- Importing and organizing data in Smart PLS
- Analyzing data using Smart PLS's SEM features, including the estimation of model parameters and the assessment of model fit
- Presenting and interpreting the results of a SEM analysis

Throughout the workshop, participants had the opportunity to work through practical exercises and case studies, allowing them to apply what they had learned and gain hands-on experience with using Smart PLS for SEM analysis.

Overall, the workshop on structural equation modeling with Smart PLS provided participants with a valuable opportunity to learn about this powerful statistical technique and gain the skills and knowledge needed to effectively analyze and interpret

About Us

JKKMMRF's College of Pharmacy is a higher education institution located in Komarapalayam, Tamil Nadu, India. The college is affiliated with The Tamil Nadu Dr. M.G.R. Medical University and offers undergraduate and postgraduate programs in pharmacy.

The college was founded in 1992 with the goal of providing students with a high-quality education in the field of pharmacy and preparing them for successful careers in the pharmaceutical industry. The college has a strong focus on practical learning and provides students with hands-on experience through internships and laboratory work.

In addition to its academic programs, JKKMMRF's College of Pharmacy also has a number of research centers and facilities, including a Central Research Laboratory and a Computer Center. The college encourages students to engage in research and has published numerous research papers in national and international journals.



JKKMMRF's College of Pharmacy is a well-respected institution that is dedicated to providing students with a comprehensive education in pharmacy and preparing them for successful careers in the field.



**JKKMMRF'S-
SAMPOORANI
AMMAL COLLEGE OF PHARMACY**
komarapalayam, Nammakal
Dist-638183

Dr. N. Senthil Kumar,
PRINCIPAL,

**JKK MUNIRAJAH MEDICAL RESEARCH FOUNDATION
ANNAI JKK SAMPOORANI AMMAL COLLEGE OF PHARMACY,
ETHIRMEDU, KOMARAPALAYAM - 638 183,
NAMAKKAL DISTRICT TAMIL NADU**



J.K.K.MUNIRAJAH MEDICAL RESEARCH FOUNDATION'S ANNAI JKK SAMPOORANI AMMAL COLLEGE OF PHARMACY

Ethirmedu, B.Komarapalayam – 638 183, Namakkal Dist. Tamilnadu. India
Approved by : Pharmacy Council of India, New Delhi & The Tamilnadu Dr.M.G.R Medical University, Chennai.
Website : www.jkkmmrfpharmacy.edu.in | E-Mail : principal@jkkmmrfpharmacy.edu.in
Contact No. : +919789456750, +919943069944, +919943066944

Structural Equation Modeling with 'Smart PLS'

Structural equation modeling (SEM) is a statistical method that is used to test and estimate relationships between variables. It is a multivariate technique that allows researchers to test complex research models that include both latent (unobserved) and observed variables. Smart PLS is a software tool that is commonly used for SEM, particularly in the field of business and management research.

Smart PLS is a user-friendly software that allows researchers to fit and test SEM models using partial least squares (PLS) estimation. PLS is a statistical method that is particularly useful for analyzing data from small or moderate-sized samples, and is particularly well-suited for analyzing data from structured questionnaires or other self-report measures.

Some of the key features of Smart PLS include:

1. Model specification: Smart PLS allows researchers to specify and test a wide range of SEM models, including simple, nested, and multiple group models.
2. Data import and preprocessing: Smart PLS allows researchers to import and preprocess data from a variety of sources, including Excel, SPSS, and CSV files. It also includes tools for data cleaning and transformation.
3. Model estimation and evaluation: Smart PLS includes a range of tools for estimating and evaluating SEM models, including bootstrapping, cross-validation, and Monte Carlo simulations. It also includes a range of tools for model visualization and interpretation.
4. Model comparison: Smart PLS allows researchers to compare and contrast multiple SEM models, including nested and non-nested models, using a range of goodness-of-fit measures.

Smart PLS is a powerful tool for SEM that is widely used in business and management research. It is particularly useful for researchers who are interested in testing complex research models with small or moderate-sized samples, and for those who are interested in using PLS estimation.




Dr. N. SENTHILKUMAR,
PRINCIPAL,

JKK MUNIRAJAH MEDICAL RESEARCH FOUNDATION
ANNAI JKK SAMPOORANI AMMAL COLLEGE OF PHARMACY,
ETHIRMEDU, KOMARAPALAYAM - 638 183.
NAMAKKAL DISTRICT, TAMILNADU.



J.K.K.MUNIRAJAH MEDICAL RESEARCH FOUNDATION'S ANNAI JKK SAMPOORANI AMMAL COLLEGE OF PHARMACY

Ethirmedu, B.Komarapalayam – 638 183, Namakkal Dist. Tamilnadu. India
Approved by : Pharmacy Council of India, New Delhi & The Tamilnadu Dr.M.G.R Medical University, Chennai.
Website : www.jkkmmrfpharmacy.edu.in | E-Mail : principal@jkkmmrfpharmacy.edu.in
Contact No. : +919789456750, +919943069944, +919943066944

DEPARTMENT OF PHAREMACY PRACTICE

WORKSHOP FEEDBACK FORM

STUDENT NAME:

DATE:

YEAR/ COURSE:

NAME OF THE WORKSHOP:

COURSE CODE:

DURATION:

EVALUATE HONESTLY:

Questions	Excellent	Good	Fair	Poor
The objectives of the training were				
The instructor's contribution to the course was:				
The presentation materials were relevant				
The instructor's effectiveness in teaching the subject matter was:				
Answers to the students questions by the instructor				
The venue was appropriate for the event				
Course organisation was:				
Level of course was				
Course content was:				

Student Participation

1. On average, how many hours a week did you spend on this course (in and out of class)?
A) 0-2 B) 2-5 C) 6-10 D) 11-14 E) 15UP
2. What grade do you expect in this course?
A) BELOW 50% B) 50-60% C) 60-70% D) 70-80% E) ABOVE 80%



Dr. N. SENTHILKUMAR,
SIGNATURE

JKK MUNIRAJAH MEDICAL RESEARCH FOUNDATION
ANNAI JKK SAMPOORANI AMMAL COLLEGE OF PHARMACY,
ETHIRMEDU, KOMARAPALAYAM - 638 183.
NAMAKKAL DISTRICT, TAMILNADU.



J.K.K.MUNIRAJAH MEDICAL RESEARCH FOUNDATION'S ANNAI JKK SAMPOORANI AMMAL COLLEGE OF PHARMACY

Ethirmedu, B.Komarapalayam – 638 183, Namakkal Dist. Tamilnadu. India
Approved by : Pharmacy Council of India, New Delhi & The Tamilnadu Dr.M.G.R Medical University, Chennai.
Website : www.jkkmmrfpharmacy.edu.in | E-Mail : principal@jkkmmrfpharmacy.edu.in
Contact No. : +919789456750, +919943069944, +919943066944

LIST OF PARTICIPANTS

JEEVA P	SEM-V	B.PHARM
MOULEESHWARAN M	SEM-V	B.PHARM
NAVEENKUMAR P	SEM-V	B.PHARM
SATHISHKUMAR M	SEM-V	B.PHARM
SURESHMANI S	SEM-V	B.PHARM
VASANTH M	SEM-V	B.PHARM
ACHUKA LORRAINE KWAMBOKA	SEM-V	B.PHARM
AKILESH M	SEM-V	B.PHARM
ARCHANA P	SEM-V	B.PHARM
BARATH M	SEM-V	B.PHARM
BHARATH G	SEM-V	B.PHARM
BHAVADHARANI G	SEM-V	B.PHARM
BOOPATHI K	SEM-V	B.PHARM
CHANDRASEKAR R	SEM-V	B.PHARM
DEEBAK K C	SEM-V	B.PHARM
DEEPIKA P	SEM-V	B.PHARM
DHINESH KARTHIK P	SEM-V	B.PHARM
DINESH B	SEM-V	B.PHARM
DINESHMOORTHY M	SEM-V	B.PHARM
ELAVARASAN P	SEM-V	B.PHARM
GAUTHAM G	SEM-V	B.PHARM
GOKULPRIYA M	SEM-V	B.PHARM
HARISH A	SEM-V	B.PHARM
INBAKUMAR K	SEM-V	B.PHARM
JAYAPRAKASH D	SEM-V	B.PHARM
JEEVA S	SEM-V	B.PHARM
JISHAN M.K	SEM-V	B.PHARM
JOHN PAUL E	SEM-V	B.PHARM
KALAISELVAN P	SEM-V	B.PHARM
KALIRAJ S A	SEM-V	B.PHARM
KARAN M	SEM-V	B.PHARM
KAVI PRIYA M	SEM-V	B.PHARM
KAVIARASU G	SEM-V	B.PHARM
KAVIN P	SEM-V	B.PHARM
KAVIN S	SEM-V	B.PHARM
MADHAN KUMAR N	SEM-V	B.PHARM
MOHANDAS N	SEM-V	B.PHARM
MUTHUKUMAR E	SEM-V	B.PHARM



Dr. N. SENTHILKUMAR,
PRINCIPAL,

JKK MUNIRAJAH MEDICAL RESEARCH FOUNDATION
ANNAI JKK SAMPOORANI AMMAL COLLEGE OF PHARMACY,
ETHIRMEDU, KOMARAPALAYAM - 638 183.
NAMAKKAL DISTRICT, TAMIL NADU



JKKMMRF's Annai JKK Sampoorani Ammal

College of Pharmacy

Komarapalayam - 638183, Namakkal



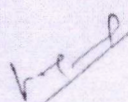
DEPARTMENT OF PHARMACY PRACTICE

One Day Workshop on

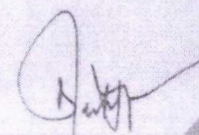
Structural Equation Modeling with ' Smart PLS '

This is to certify that

has appreciated for his/her contribution as Delegate/Resource person/Organizing Committee Member in the One Day Workshop held on 5 April 2021.



Organizing Secretary



Convenor




Dr. N. SENTHILKUMAR,
PRINCIPAL,

JKK MUNIRAJAH MEDICAL RESEARCH FOUNDATION
ANNAI JKK SAMPOORANI AMMAL COLLEGE OF PHARMACY,
ETHIRMEDU, KOMARAPALAYAM - 638 183,
NAMAKKAL DISTRICT, TAMILNADU.



JKKMMRF's Annai JKK Sampoorani Ammal

College of Pharmacy

Komarapalayam-638183, Namakkal



DEPARTMENT OF PHARMACY PRACTICE

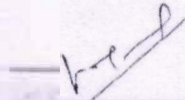
One Day Workshop on


Structural Equation Modeling with 'Smart PLS'

This is to certify that

Gautham G

has appreciated for his/her contribution as Delegate/Resource person/Organizing Committee Member in the One Day Workshop held on 5 April 2021.



Organizing Secretary


Convenor



Dr. N. Senthilkumar,
PRINCIPAL,
JKK MUNIRAJAH MEDICAL RESEARCH FOUNDATION
ANNAI JKK SAMPOORANI AMMAL COLLEGE OF PHARMACY,
ETHIRMEDU, KOMARAPALAYAM - 638 183,
NAMAKKAL DISTRICT, TAMILNADU.




Dr. N. Senthilkumar
PRINCIPAL
JKK MUNIRAJAH MEDICAL RESEARCH FOUNDATION
ANNAI JKK SAMPOORANI AMMAL COLLEGE OF PHARMACY,
ETHIRMEDU, KOMARAPALAYAM - 638 183,
NAMAKKAL DISTRICT, TAMILNADU.