

**NODAL OFFICE**  
**CHRIST ( Deemed to be University)**  
**THIRUVANANTHAPURAM**

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**3 DAY TRAINING WORKSHOP ON**

**STRUCTURAL EQUATION MODELLING (SEM) USING AMOS**

**MARCH 7-9, 2019. TIME 9AM to 5PM**

**CHRIST (Deemed to be University)**

CHRIST (Deemed to be University) was born out of the educational vision of St Kuriakose Elias Chavara, an educationalist and social reformer of the nineteenth century in South India. He founded the first Catholic indigenous congregation, Carmelites of Mary Immaculate (CMI), in 1831 which administers CHRIST (Deemed to be University).

Established in 1969 as Christ College, it undertook path-breaking initiatives in Indian higher education with the introduction of innovative and modern curricula, insistence on academic discipline, imparting of Holistic Education and adoption of global higher education practices with the support of creative and dedicated staff. The University Grants Commission (UGC) of India conferred Autonomy to Christ College in 2004 and identified it as an Institution with Potential for Excellence in 2006. In 2008 under Section 3 of the UGC Act, 1956, the Ministry of Human Resource Development of the Government of India, declared the institution a Deemed to be University, in the name and style of CHRIST (Deemed to be University). One of the first institutions in India to be accredited in 1998 by the NAAC, and subsequently in 2004 and 2016, CHRIST (Deemed to be University) has the top grade 'A' in the 4-point scale.

**NODAL OFFICE, CHRIST (Deemed to be University)**

The CHRIST (Deemed to be University) Nodal Office at Thiruvananthapuram, Kerala is established with the objective of reaching out to other Southern States of India through research, extension and consultancy. Situated in the beautiful ambience of Thiruvananthapuram, the capital city of Kerala, the Nodal Office is under the administration of CHRIST (Deemed to be University), Bangalore.

The Nodal Office is mandated to achieve its objective by undertaking research projects on pressing social issues and by organizing conferences, seminars and workshops in relevant areas with both internal and external funding and offer Training and Development in building academic and leadership competencies in the region.

LOCATION: <https://goo.gl/maps/3LdNRopK4Rt>

## STRUCTURAL EQUATION MODELLING (SEM)

Quantitative Data Analysis basically starts with Explorations > Descriptives, goes with Comparison of Means, then to Associations > Relations > Correlations > Covariance > Regression > Functional / Relational modelling etc. This schema is based on -- One-To-One; Many-To-One; One-To-Many relationships of variables.

But when variables are closely interconnected and are believed to be having “Many-To -Many” Relationships, (or) where a variable is having a Relationship with a Target Variable operating through an Intermediate or Operational Variable (ex:  $x$  depends on  $y$  through  $a$ ), regular Quantitative Techniques are not feasible or to say, very tedious to calculate. Even though, we calculate with difficulties, the end result will never be a valid one logically.

SEM comes to handy in situations like this. In social sciences research, usually, a single (or Multi) variable will be associated with almost all variables of the Research and the Reverse is also the case. Though, we have MCDM / MCOM (Multi Criterion Decision/Options Modelling) techniques available, SEM is believed to be the highest pinnacle in the Multivariable -- Multi-Relationship Quantitative data analysis.

## WORKSHOP CONTENTS

- **Basic Concepts of Covariance, Regression & Moments**
- **Determining Sample Size required for Structural Equation Modelling using GPower**
- **Data Simulation using Microsoft Excel**
- **Data Management for SEM using AMOS**
- **Installation & Introduction to AMOS**
- **Confirmatory Factorial Analysis (CFA) using AMOS**
- **Model Building using AMOS**
- **Model Corrections / Refinement**
- **Evaluating the model's efficiency**
- **Finalizing the model**
- **Report preparation for SEM models**

## DELEGATE PROFILE

All Research Guides, Researchers including Post-Graduate, M.Phil. & Ph.D. students & Business Data Modellers from Industry are welcome to participate.

## WORKSHOP FEE

**Fees of Rs: 3000** may be paid by online BY USING THE LINK GIVEN. (*Fees include costs of training materials, stationery, lunch ,two time tea and snacks on the three training days*)

FEE PAYMENT - <https://christuniversity.in/online-payment-portal>  
DETAILS FOR REGISTRATION - <https://goo.gl/forms/Tvw0ki3vyQkwZ6cw1>

## ACCOMMODATION

Accommodation will be arranged at an affiliated institution. Participants must bear the costs. No advance payment is required. Participants can clear the bills at the respected venues on the day as instructed by affiliated institution that is giving the accommodation. Accommodation may cost Rs: 300/- (approx...) per day on three sharing basis. The accommodation charges have to be taken up by the participants and Nodal office would only guide the participants to the institution affiliated. THE ACCOMMODATION FACILITY AT THE AFFILIATED CENTER IS LIMITED AND IT WOULD BE ON FIRST COME FIRST SERVE BASIS.

