

#### KARNATAKA STATE OPEN UNIVERSITY

MUKTHA GANGOTHRI, MYSURU-570 006



#### DEPARTMENT OF STUDIES AND RESEARCH IN COMMERCE

## Report on Five days National Level Faculty Development Programme on "Data Analysis using SPSS and AMOS"

#### **Organised by**

Department of Studies and Research in Commerce, KSOU, Mysuru.

Date: 25<sup>th</sup> to 29<sup>th</sup> July 2023 Venue: KSOU, Mysuru.



#### **About the Programme**

The five days' faculty development programme on "Data Analysis using SPSS and AMOS" is designed to train and develop faculty and research scholars in the various area of research. The programme is likely to provide essential tools and techniques through hands-on experience. Keeping in view of the importance of Statistical Data Analysis, this workshop explores the basic and advanced statistical techniques using SPSS and AMOS. SPSS is a powerful tool for data analysis and reporting. The programme is designed to cover all relevant aspects of Statistical Data Analysis starting from the very basics of Data Preparation, Data Cleaning to Advance Statistical tools using SPSS. Structural Equation Modelling (SEM), is a powerful statistical tool that combines factor analysis and regression analysis to explain the relationship between variables. Whenever the researcher is interested in testing a particular theory, SEM helps in building and testing statistical models. This type of analysis is desirable because researchers often hypothesize that a given outcome of interest is influenced by more than one variable which will be shown through AMOS. This Programme shall provide the participants a descriptive theoretical and practical knowledge to SEM, moderation and mediation. SPSS and AMOS will be used to learn all the statistical technique, which is uniqueness of the programme.

#### **Objectives of the Programme**

- 1. To enhance the knowledge of the researches using quantitative methods.
- **2.** To create awareness of the basic concepts related to SPSS and AMOS software with hands on lab sessions.
- **3.** To provide hands on training of basic and advanced tools and techniques to perform Data Analysis using SPSS and SEM using AMOS.

#### **Uniqueness of the Programme**

- 1. To provide exposure to the participants on the importance of Data Analysis and Structural Equation Modelling for research.
- 2. To enable the faculty members of multidisciplinary areas (marketing, HR, finance, accounting, analytics, entrepreneurship) to gain insight for collection of data and how to utilise the various statistical analytical tools and Structural Equation Modelling.
- 3. Hands on lab sessions.

#### **Programme Schedule**

Day	Timings	Topic	Resource Person
25 <sup>th</sup> July	10.00 AM To 11.00 AM	Inauguration	
	11.00AM To 5.30 PM	<ul> <li>Introduction to Data Analysis</li> <li>Basics of Statistics</li> <li>Basics of Hypothesis and Testing of Hypothesis</li> <li>Types of Data</li> <li>Data Entry and Data Importing into SPSS</li> <li>Data Transformation</li> <li>Data Cleaning</li> <li>Test of Reliability</li> <li>Test of Normality</li> </ul>	Dr. V Rajesh Kumar
26 <sup>th</sup> July	10.30AM To 5.30PM	<ul> <li>One-sample t test</li> <li>Independent sample t-test</li> <li>Paired t-test</li> <li>One-way ANOVA</li> <li>Chi-square Test of Goodness of Fit</li> <li>Chi-square Test of Independence</li> <li>Kruskal Wallis Test</li> <li>Mann-whitney u Test</li> <li>Wilcoxon Sign Test</li> </ul>	Dr. V Rajesh Kumar
27 <sup>th</sup> July	10.30AM To 5.30PM	<ul> <li>Cluster Analysis</li> <li>Discriminant Analysis</li> <li>Factor Analysis</li> <li>Correspondence Analysis</li> </ul>	Dr. Kasilingam R.
28 <sup>th</sup> July	10.30AM To 5.30PM	<ul> <li>Multivariate Analysis</li> <li>Multi-dimensional Scaling</li> <li>Logistic Regression</li> <li>Structural Equation Modelling using AMOS</li> </ul>	Dr. KasilingamR.
29 <sup>th</sup> July	10.30AM To 4.30PM	<ul> <li>Structural Equation Modelling (continued)</li> <li>Analytical Hierarchy Process</li> <li>Data Envelopment Analysis</li> </ul>	Dr. Kasilingam R.
	4.30PM To 5.30PM	Valedictory and Certificate Distribution	Page <b>2</b> of <b>1</b> (

#### **Resource Persons**

Sl. No.	Name of the Resource Person	University/Department
01	Dr. V. Rajesh Kumar	Professor and Dean,
		School of Commerce and Management,
		Chanakya University, Bangalore.
02	Dr. R. Kasilingam	Professor, Dept. of Management Studies,
		School of Management, Pondicherry
		University, Pondicherry.

Inaugural Session				
Chief Guest	Dr. Nagesh V. Bettakote			
	Hon'ble Vice Chancellor,			
	Karnataka State Dr. Gangubai Hangal Music & Performing Arts			
	University, Mysuru.			
President	Dr. Sharanappa V. Halase			
	Hon'ble Vice chancellor, KSOU, Mysuru			
Presence	Dr. K.L.N Murthy			
	Registrar, KSOU, Mysuru.			
Presence	Dr. N. Lakshmi			
	Dean Academic KSOU, Mysuru.			
Presence	All Statutory Officers, KSOU, Mysuru			
Programme Director	Dr. Usha C.			
	Chairperson,			
	DOS & R in Commerce, KSOU, Mysuru.			

Inauguration of Five days National Level Faculty Development Programme was started at 10.30am with an invocation song by Amma Ramachandra G. followed by welcome and key note address address by Dr. Usha C. Chairperson and Programme Director, DoS &R in Commerce, KSOU, Mysuru. All the dignitaries lighted the Lamp and gave start to the programme. Dr. Savitha P Chairperson DoS & R in Management, KSOU, Mysuru, introduced Chief Guest and Resource Person. Prof. Nagesh V. Bettakote Hon'ble Vice-Chancellor, Karnataka State Dr. Gangubai Hangal Musical & Performing Arts University, Mysuru, delivered the chief guest speech on the importance in upgrading in Ph.D. statistical tools and also using software in research. The resource person and chief guest was honored by the dignitaries on the dias. Prof. N. Lakshmi, Dean Academic KSOU, Mysuru gave a speech regarding importance of conducting such programmes and expressed her interest in such programmes. Later Prof. K.L.N Murthy,

Registrar, KSOU, Mysuru addressed the gathering and extended support for the success of programme. Prof. Shanarappa V. Halse, Hon'ble, Vice- Chancellor, KSOU, Mysuru gave a presidential remarks and congratulated to Commerce Department for organizing programme. Dr. Sukanya R. gave vote of thanks for the programme.



















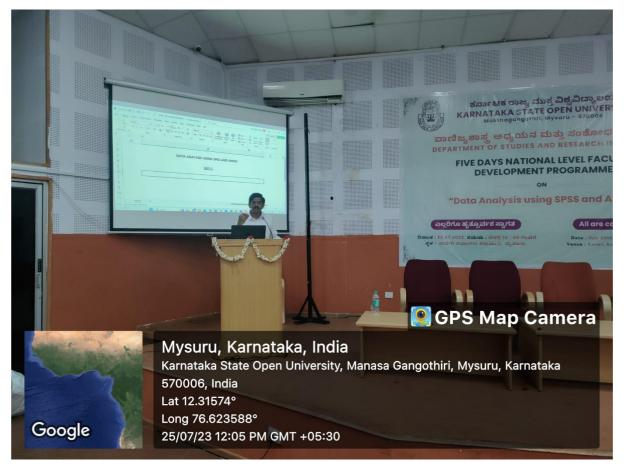








The first technical session was started by the resources person Dr. V. Rajesh Kumar, where he started with steps in research which covered (Why, What, How) aspects of research then covered Data Analysis. He gave clear picture about types of Data, and then told about the formulation of Hypothesis and identification of test depending upon variables.



After lunch, the participants had hands on session in Lab where participants, practical experience "Data entry using SPSS". Later, he explained the importance of reliability test and demonstrated using SPSS software to know whether the data is reliable for future analysis. At the end of the session sir also told about the Testing of Data.





Dr. Rajesh Kumar V. started the session of day-2 at 10.00 am. He commenced by highlighting the significance of Data Cleaning and demonstrated how to rank statement using "Garret Rank". Further, he emphasized on the importance of testing of normality of data to know which test has to be applied, by the end of session the participants were clarified with finding Impossible Values, Missing Values, Outliers, Testing of Independent Sample of T-Test, One – way ANOVA, Kruskal wallis Test, Chi-Square Test of Independence, Pearson Chi- Square Test, One Sample t – Test, Chi- Goodness of Fit, Parired Sample Test and how one data related to another.







Finally, the day-2 session was ended by vote of thanks by Dr. Chinnaiah P.M., Assistant professor, DOS & R in Commerce, KSOU, Mysuru and handed over the certificate and honorarium to resource person. At last, group photo was taken in the campus of KSOU, Mysore with resource person Dr. V Rajesh Kumar.





On 3<sup>rd</sup> day, the session was started by introducing another resource person Prof. R. Kasilingam, Professor, department of Management Studies, Pondicherry University, by Dr. Chinnaiah P.M., Assistant professor, DOS & R in Commerce, KSOU, Mysuru and handed over the boquet to resource person.



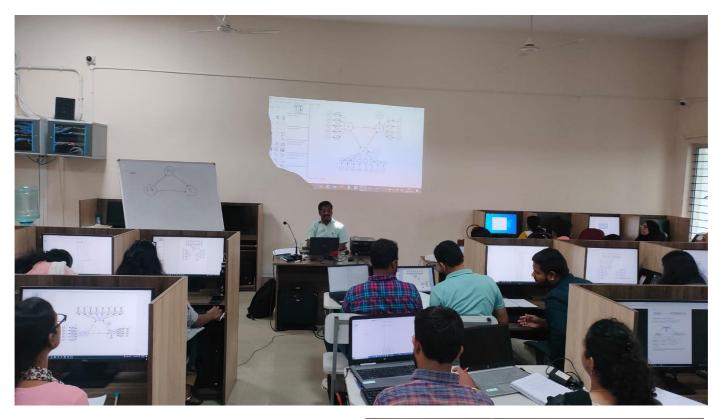
Prof. Kashiligam took over the programme. He gave the participants brief foundations on Descriptive Statistics, where he explained measure of central tendency, Descriptions and Distribution of data. Further, explained about which test has to be applied depending on variables. He highlighted about Chi-square Test, Independent Sample T-Test, applying Regression and also most importantly interpretation of Data in a Specified manner.



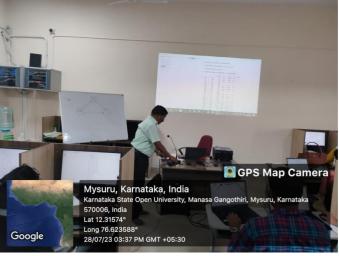


In the afternoon session, the participants were given knowledge of testing of Skewness, Applying of Test for different Data, Bi- Variable, Combination of Variable, Chi- Square Test, Independent Sample t-test Graphical Representing of Data. At the end of day-3 determination of degree of determination by R-Square Value which helps in interpretation was demonstrated.

On 4<sup>th</sup> day of programme, sessions were focused on using AMOS graphical software, where participants learnt about path analysis. The resource person was explained the importance of Regression and Mediators and R- Square Values. By end of the session, he introduced the participants about Structural Equation Modeling using AMOS. Measuring of Moderation for one variable, two variable and Multi variable and introduced CFA and EFA







Prof. Kasilingam continued with Structured Equation Modeling with various variables. He addressed about test of reliability between constructs and explained how to analyse by introducing dummy regression, Binary Logistics. Finally, session was ended with designing different Models Equation for different variables which gave insight to participants about AMOS.



#### **Valedictory Programme**



The valedictory address was scheduled on 29<sup>th</sup> July 2023, between 4:30 pm to 5:30 pm in Kaveri Auditorium, KSOU, Mysuru. The programme started with a prayer by smt. Yashaoda S.M. Welcome speech was carried by Sunaina. Later, brief report of the five days national level FDP was read by Mrs. Sahana S. Three participants were given feedback on the programme. Further, Dr. Kasilingam, Professor, Department of management Studies, Pondicherry University was delivered the chief guest address of valedictory function. Later Dr. Kasilingam sir was honored by Prof. K.L.N Murthy, Registrar, KSOU, Mysuru. Prof. K.L.N Murthy, Registrar, KSOU, Mysuru has delivered presidential address for the valedictory programme. The certificates were distributed by the Registrar, Programme Director and Resource Person. The programme was ended by giving vote of thanks by Dr. Usha C. Chairperson and Programme Director DoS & R in Commerce, KSOU, Mysuru. All the participants and the dignitaries were asked to end the programme by saying National Anthem.

Finally the programme was ended with group photo.













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### Five-day Faculty Development Programme begins at KSOU



Music University Vice-Chancellor Prof. Nagesh V. Bettakote (extreme left) and KSOU Vice-Chancellor Dr. Sharanappa V. Halse seen inaugurating the five-day National-level Faculty DevelopmentProgrammeatKSOUthismorningasotherslookon.

Mysuru, July 25 (PM&TRR) - A five-day National-level Faculty Development Programme on 'Data Analysis using SPSS and AMOS,' organised by the Department of Studies and Research in Commerce, Karnataka State Open University (KSOU) was inaugurated by Karnataka State Dr. Gangubai Hangal Music and Performing Arts University Vice-Chancellor of Prof. Nagesh V. Bettakote at Kaveri Auditorium in KSOU premises in city this morning.

Speaking after inaugurating the Faculty Development Programme, Prof. Bettakote said that for the development of any country, it is essential to give importance to higher education and research. "A programme like this will benefit research enthusiasts. At present, it has become a challenge to achieve progress in the field of education and hence there is a need to give more importance to higher education in the country," he added.

Stating that the grants that are being given by the present Governments were not satisfactory, the Music Varsity Vice-Chancellor said that experts are of the opinion that unless priority is given by the Governments to higher education and research, no nation can progress. "Basic infrastructure, technology and financial grants by Governments are very essential to promote higher education and research. Our country is famous for valuebased education since ages and we had great Universities in our country thousands of years ago.

But of late, one feels that we are engaged only in formulating education policies and rules. If our Governments introspect about the financial grants given to education and the number of students pursuing higher education and research in the country, they will realise that much more has to be done in the field of higher education," Prof. Bettakote added.

Continuing, he said that there is a University in every district but the lack of basic infrastructure is glaring at all these Universities. "Teaching faculty is facing issues with their salaries and the Government must give its attention to all these issues as nothing can be achieved without basic amenities," he said and added that KSOU has come out of its bad time under the leadership of Vice-Chancellor Dr. Sharnappa V. Halse and is gaining popularity apart from earning a good name.

Registrar Prof. K.L.N. Murthy, Dean (Academic) Prof N. Lakshmi, Chairperson and Programme Director, Department of Studies and Research in Commerce Dr. C. Usha, Registrar (Evaluation) Prof. K.B. Praveena, Finance Officer A. Khadar Pasha and others were present on the occasion.

#### **JOB VACANCY**

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