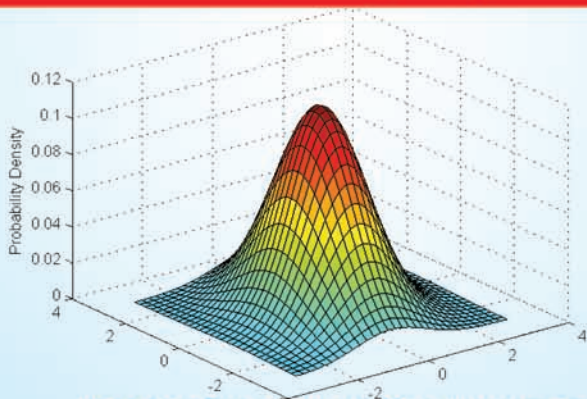


FACULTY AND STAFF DEVELOPMENT TRAINING CENTRE

Government Engineering College, Thrissur



Faculty Development Programme on **MULTIVARIATE DATA ANALYSIS** December 19 – 23, 2016



Organised by

Department of Economics
Government Engineering College
Thrissur 680 009

Sponsored by
DIRECTORATE OF TECHNICAL EDUCATION
Government of Kerala

Course Coordinator:

Rajesh P.

Asst. Professor of Economics
Govt. Engg. College, Thrissur

Overview of the Programme

While mathematics is generally thought to be the language of science, *data analysis* is the language of research. Multivariate data analysis is an integral part of research and decision making in almost all disciplines.

Multivariate statistics are increasingly popular techniques for analysing complicated data sets. Multivariate analysis refers to all statistical techniques that simultaneously analyse more than two variables. Because of the difficulty of addressing complicated research questions and data sets with univariate analyses and because of the availability of powerful statistical software for performing multivariate analyses, multivariate statistics have become widely used.

This training programme is designed to make multivariate data analysis more comprehensible and less toxic. The programme intends to provide the participants a conceptual understanding of some important multivariate statistical techniques and its practical implementation in the research using the appropriate software packages. Upon successful completion of the training, the participants are expected to develop their capability in the selection of the appropriate multivariate statistical techniques, its computation using software, and the proper interpretation of the results, particularly in their research works and professional decision making. This training programme will be more useful for the faculty members, who are engaged in research, for developing their data analysis skills.

Course Content

The training programme expects to provide conceptual clarity and hands-on practical training on the following topics:

- ▣ Overview of Multivariate Statistical Methods and Exploratory Data Analysis
- ▣ Hypothesis testing: ANOVA, ANCOVA, MANOVA, MANCOVA
- ▣ Multiple Regression Analysis: Specification, Estimation and Model Adequacy Tests
- ▣ Time Series Analysis
- ▣ Panel Data Analysis.
- ▣ Discriminant Analysis and Logistic Regression
- ▣ Exploratory Factor Analysis
- ▣ Confirmatory Factor Analysis
- ▣ Structural Equation Modelling

Pedagogy

The course delivery will be a mix of interactive lectures, demonstrations, and hands-on practical training using appropriate statistical software packages.

Resource Persons:

The course content will be delivered by reputed and experienced experts in the subject from nationally reputed research institutes, universities and colleges.

Who can participate?

This programme is designed for the faculty members working in the AICTE approved government/aided/self-financing engineering colleges and Polytechnic colleges in Kerala. Since it is an interdisciplinary programme, faculty members from all engineering/non-engineering disciplines are eligible to participate in it. **No prior knowledge on advanced statistical methods is required for participating in the programme.**

How to Apply?

The interested faculty members from the AICTE approved engineering colleges and poly-technique colleges in Kerala are required to send the dully filled registration form to the coordinator as early as possible. The filled-in registration form should reach the course coordinator latest by December 14, 2016. A scanned copy of the registration form may be e-mailed to the coordinator as an advance copy. **The number of participants is limited to a maximum of 20. Registrations will be done on 'first come first served' basis.**

Registration Fee

No registration fee will be charged from the participants.

Travelling Allowance & Accommodation

Outstation candidates are eligible for travelling allowances, and the TA will be provided as per the FSDTC norms, subject to the availability of fund. **Accommodation will be arranged for the participants, if needed. The participants who need accommodation may inform the same to the coordinator in advance.**

Important Dates:

Last date for receiving the filled-in registration form:

14th December, 2016.

Programme dates :

19th -23th December, 2016

About Government Engineering College, Thrissur

The Government Engineering College, Thrissur, established in 1957, is one of the premier institutes of technological education in Kerala. Affiliated to the APJ Abdul Kalam Technological University, the college offers seven undergraduate programmes, six part-time undergraduate programmes, ten post graduate programmes and doctoral programme in engineering. Besides the engineering programmes, the college also offers undergraduate and post graduate programmes in Architecture and Post-graduate programme in Computer Applications (MCA). The college, which is an ISO 9001: 2000 certified institution, is recognized by the AICTE and programmes are accredited by the NBA. The college campus is spread over an area of 75 acres and is located at Ramavarmapuram, which is about 5 km from the heart of Thrissur Town and about 6 km from Railway Station.

About the Department of Economics

The Economics Department at GEC, Thrissur offers courses in economics (Engineering Economics and Business Economics) to the students belonging to all the branches of engineering. The courses aim to provide them with the economic and financial and decision making tools suitable for efficient and optimum decision making in their engineering profession. The department has successfully organised 4 short-term training programmes for the faculty members and researchers during the last 2 years.

The Faculty and Staff Development Training Centre

The Faculty and Staff Development Training Centre (FSDTC) at Government Engineering College, Thrissur provides a suitable platform for personal, academic and professional development of faculty members and supporting staff of various engineering colleges and Polytechnic colleges in Kerala. The centre strives to improve the quality of the teaching-learning process and research in technological education in Kerala by instilling proper and up-to-date methodologies in the system. FSDTC of our college organises a series of training programmes on various relevant topics for the faculty members and the supporting staff of engineering colleges and polytechnic colleges in the state.

Address for Communication

Rajesh P., Assistant Professor, Department of Economics
Govt. Engineering College, Thrissur – 680 009, KERALA.
Phone: 09447344410 E-mail: rajesh@gectcr.ac.in

Note: Participants are requested to bring their own laptops for the practical sessions in data analysis.

Enquiry: For any further clarification or information please feel free to contact the coordinator.

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Government Engineering College, Thrissur
Faculty Development Programme on
MULTIVARIATE DATA ANALYSIS

December 19 – 23, 2016

REGISTRATION FORM

(Please use Capital Letters)

1. Name
2. Age 3. Gender : Male Female
4. Designation.....
5. Department.....
6. Organization
7. Type of Organization : Govt. Aided Self Financing
8. Address for Correspondence.....
.....
.....
.....
9. Mobile No.....
10. Email
11. Highest Educational Qualification.....
12. Years of Professional Experience.....

Declaration by the Applicant

The above mentioned information is true to the best of my knowledge and belief. I agree to abide by the rules and regulations governing the course.

Place:

Date:

Signature of the Applicant

Recommendation by the Head of the Institution

Mr./Ms./Mrs./Dr.....

is an employee of this institution. He/she will be permitted to attend the training programme, if selected.

Place:

Date:

Signature of the Principal /
Head of the Institution

Office seal

Photocopies can be used