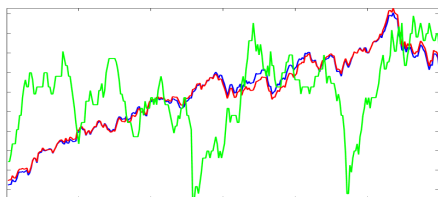


Faculty Development Programme
Statistical Methods and
Scientific Applications

(SMASA-18)

May 14-19, 2018



Organized by



Department of Mathematics
National Institute of Technology Calicut
Kozhikode - 673601, Kerala

Under TWINNING WITH



Govt. Engineering College Bharatpur
Bharatpur, Rajasthan - 321303

Sponsored by TEQIP – III, MHRD

About the Department

The Department of Mathematics is one of the oldest Departments in this Institute. It was established at the inception stage of the Calicut Regional Engineering College (CREC), which was the forerunner to the present National Institute of Technology Calicut (NITC) in 1961. In addition to the courses offered for the B.Tech, B.Arch, M.C.A. and M. Tech programmes of the institute, the Department offers the following programmes - Ph. D. in Mathematics and M.Sc. Degree in Mathematics.

The Stochastic Modelling group of the Department carry out research in different areas of Stochastic modeling and Applied Statistics. Active research work is going on in the Department in Time Series Modelling, Stochastic Processes and its applications. Optimization Techniques, Statistical Inference, Bayesian Reliability of Systems, Stochastic Programming, Reliability Modelling and Designs etc. Also the department has strong research groups in the areas of Discrete Mathematics, Applied Mathematics and Pure Mathematics.

About NIT Calicut

National Institute of Technology Calicut (NITC), is fully centrally funded by MHRD and is governed by the NIT Act 2007. Institute has ten departments, three schools and nine research centers. It offers ten UG, and thirty PG programmes along with the Ph.D programme in various fields of Science, Technology and Engineering. Faculties in the various Departments have active collaborations with universities and elite institutions within and outside India for research and have active consultancy for industries. For details visit the website: www.nitc.ac.in

About GEC Bharathpur

Government Engineering College (GEC) Bharatpur is an autonomous institute under Bharatpur Society, Rajasthan, India. GECB was established in the year 2007. The college has six departments namely Mechanical Engineering, Civil Engineering, Electronics & Communication Engineering, Electrical Engineering, Computer Science & IT and Applied Science & Humanities and for details see the website <http://www.ecbharatpur.ac.in>

About TEQIP III

Technical Education Quality Improvement Programme (TEQIP) was launched in December, 2002 by the Ministry of Human Resource Development, India with the World Bank assistance. The programme was conceived and designed as a long term project to be implemented in 10-12 years in 3 phases to support excellence and transformation in Technical Education in the country. Third phase of the programme namely TEQIP III was started in the year 2017 and will be ending in 2020. The main objective of TEQIP III is to improve the quality of Engineering Education in existing government institutions in the educationally backward states and also arrange for twinning them with other institutions like NITs and a few affiliating technical Universities(ATU).

About Kozhikode

NITC is located about 22 kilometers north-east of Kozhikode (Calicut) City. Kozhikode, is known as the city of spices. Kozhikode is a major knowledge hub of Kerala and is the hometown of institutions of national importance including NITC, IIMK, NIELIT, CWRDM etc. Kozhikode is connected by direct trains/road/air to all major cities in India. Kozhikode beach, Kappad beach where Vasco De Gama landed first, Kadalundy bird sanctuary, Tusharagiri Waterfalls. Pazhassiraja Museum, Tali Temple and Kuttichira Masjid are some of the local attractions.

Preamble

Statistical methods are tools for scientific decision making. This course is an inter - disciplinary course which is aimed at equipping the faculty members of various academic institutions /researchers/ industrial personnel. Statistical methods form part of the curriculum of B. Tech, M. Tech, M. Sc Mathematics and Statistics and Ph. D course work. It is the need of the day to update the topics and enrich the faculty with the knowledge on the variety of scientific applications of statistical methods to mentor their students.. Also the course will be beneficial for researchers and industrial personnel interested in applying statistical methods for decision making.

Topics covered in this FDP:

- Basics of Probability theory and Statistics
- Statistical Decision making
- Design and analysis of experiments
- Regression analysis
- Predictive analysis
- Reliability analysis
- Stochastic Optimization
- Application of statistical methods in water resource management and transportation
- Industrial applications of statistical methods
- Interactive session by participants

(Participants are encouraged to bring their Laptop for the hands-on training classes)

Resource Persons:

The sessions will be handled by experts from NIT Calicut, GECEB, Accenture Analytics, Bengaluru, and experts from IIMK

Eligibility:

- Faculty members from various AICTE approved Engineering Colleges/polytechnic Institutions can apply (**Maximum seats: 30 out of which 20 under TEQUIP III**)
- Working professionals and practicing engineers from various Research Organizations and Industries, and Research scholars (Maximum seats 10) who are in need of applying Statistical Methods.

Registration Fee

- Industry/ Research Organizations: Rs.5000+18% GST
- Academic institutions: Faculty* Rs. 2000+18% GST
- Research scholars: Rs. 2000+18% GST

The Registration Fee includes only fee for registration and course materials. Boarding and lodging will be of extra cost. (*For selected 20 faculty members **under TEQUIP III scheme** the registration is free of charge and the selection to this is on **first come first serve basis** from the applicants from the AICTE approved Engineering Colleges/ polytechnic Institutions)

For registration, fill the online form at

<https://goo.gl/forms/JVG9fMg07ue4W1mi1> and upload the scanned copy of the signed endorsement form. The registration fee has to be paid through online transfer. The bank details are given below for online transfer.

Account Name: Director NIT Calicut, Continuing education programme, Account No: 37618269594; Branch: SBI, NIT Calicut, IFSC code: SBIN0002207

Last date for registration is 10 May 2018.

Travel Expenses

No TA/DA will be paid for any participant. Institutions are expected to provide the support.

Boarding & Lodging

All faculty and research scholars may be accommodated in the hostel /international hostel on payment basis if they request for it. Participants from industry /research organizations may be provided lodging in the Institute Guest house on payment basis, subject to availability

Charges : International hostel Rs. 450/Room/day
Ladies/Men's hostel Rs. 250/Room/day
Guest house Rs. 350/Room/day
Breakfast Lunch and dinner Rs. 250/- per day

Endorsement of the Head of the Institution/Department

Certified that Mr./ Ms./ Dr.
.....

is an employee of this institution and is hereby sponsored for the training programme on **Statistical Methods and Scientific Applications (SMASA-18)**, at NIT Calicut during May 14-19, 2018. He/she will be permitted to attend the course, if selected.

Place:

Date:



Name & Signature of the
Sponsoring Authority
(*seal of the institution*)

Scan the QR Code for online registration and upload the signed endorsement form. Last date for registration is 10 May 2018.

Coordinator

Dr. Jessy John C

Department of Mathematics

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Co-Coordinator

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