

About Aligarh Muslim University

Sir Syed Ahmad Khan, a great social reformer of his times started a school in 1875 which later became Mohammedan Anglo Oriental College and finally Aligarh Muslim University in 1920. Modelled on the pattern of University of Cambridge, it is one of the premier institutions of higher learning offering more than 280 courses. It draws students from all corners of India as well as from abroad. Aligarh is situated in the middle of *Doab* – the land between Ganga and Yamuna rivers, at a distance of 130 km southeast of Delhi on the Delhi – Kolkata rail route and the Grand Trunk Road. The latitude is 27°54' N and longitude is 78°0' E. The climate is fairly warm in March (Temperature between 16°C to 35°C). The university campus is 3 km away from Aligarh Railway Station and about 90 km from Agra, the city of Taj Mahal.

About the Department

The teaching of Statistics commenced in 1953 and a course leading to M.Sc. degree was started in 1958 in the Department of Mathematics and Statistics and an independent Department of Statistics came into existence in April 1975. During the period 1980 – 1985, two major academic events took place. A research journal entitled “The Aligarh Journal of Statistics” was introduced to the academic community, the first issue of which was released in 1981 and its 37th issue is in press. It has been placed in the list of core journals by CIS. The other major event was the institution of a Master's degree in Operations Research in 1983. The department was renamed in 1989 as the Department of Statistics and Operations Research.

Theme of the Workshop:

Research methodology is an indispensable tool to be learnt by researchers in almost every field. In order to validate their hypotheses scientifically, researchers must acquire the knowledge of using a proper sample size and how the samples are to be taken. Once the data are collected, one needs to know what kind of statistics and optimization tools are to be used. Statistical analysis plays an important role in medicine engineering, science,

and other applied disciplines. The formulation of statistical models and their applications to address particular type of study objectives forms the core component of standard approaches to the analysis.

It is felt that the workshop will cater to the needs of researchers in achieving the said objectives. Realizing the need of the computational tools, the workshop also offers training on analysis and interpretation of results through statistical software packages namely SPSS, Minitab, R, TORA and Lingo. This workshop is being organized with an objective to acquire an applied knowledge of statistical and optimization modelling using software packages.

Topics to be covered:

The Workshop will cover broadly the following topics:

Introduction to Software packages (SPSS, Minitab, R, TORA and Lingo) with necessary commands, Descriptive and Exploratory Data Analysis, Categorical Data Analysis, Correlation and Regression Diagnostics (Simple, Multiple, Stepwise, Best Subset, Logistic), Testing of Hypothesis, Parametric and Non-Parametric Tests, ANOVA, MANOVA, Medical Statistics, Various Multivariate Techniques, Linear Programming Problem, Transportation and Assignment Problems.

Tentative Resource Persons:

- Prof. T.R. Gulati, Indian Institute of Technology, Roorkee.
- Prof. S.K. Sharma, Panjab University, Chandigarh
- Prof. Masood Husain Siddiqui, Jaipuria Institute of Management, Lucknow
- Prof. Qazi Mazhar Ali, A.M.U., Aligarh
- Prof. Athar Ali Khan, A.M.U., Aligarh
- Prof. Aquil Ahmed, A.M.U., Aligarh

Eligibility for Participation:

Research Scholars, faculty from interdisciplinary subjects from Universities/ Colleges/ Institutes and Industrial Professionals working in the field of Statistics and Optimization are eligible to apply. Participants must have experience of working on

computers and must bring their own laptops with R and demo versions of SPSS, Minitab and Lingo software packages installed for practical hands on sessions.

Registration Fee	On or before 27th April, 2018	After 27th April, 2018
Industrial Professionals	Rs. 5000	Rs. 6000
Faculty/Post Doc	Rs. 3000	Rs. 3500
Research Scholars	Rs. 1500	Rs. 2000

Selected candidates will pay the registration fee online with the details given below:

Name of the Account Holder: Chairman, Department of Statistics and O.R., A.M.U. Aligarh.

Account Number: 5247101004262

Name of the Bank: Canara Bank, AMU Branch, Aligarh

IFSC Code: CNRB0005247

Selected candidates will be informed by 23th April, 2018 through email only.

Accommodation:

The participants will have to arrange accommodation on their own if required. However, accommodation can be arranged on the request of the needy participants on payment basis. Please note that no TA/ DA will be paid to the participants.

Number of Seats:

The number of seats are limited to 50.

Last Date to Apply:

The duly filled registration forms must be sent on or before 22nd April, 2018