

FACULTY DEVELOPMENT PROGRAM

on MATHEMATICAL AND STATISTICAL COMPUTATIONS

July 09-14, 2018



Organized by

*Department of Mathematics
Jaypee Institute of Information Technology
A-10, Sector-62, Noida, UP-201307,
INDIA*

JIIT AND THE DEPARTMENT OF MATHEMATICS

The Jaypee Institute of Information Technology (JIIT) is declared as a deemed to be University under section 3 of UGC Act. 1956. JIIT is fully backed and supported by the Jaypee Group of Companies through its not-for-profit trust – Jaiprakash Sewa Sansthan. It is situated at Sector 62, Noida. The state-of-the-art campus is aimed at becoming a center of excellence in the field of information technology & related emerging areas of education, training and research comparable to the best in the world for producing professionals who shall be leaders in innovation, entrepreneurship, creativity and management. The University offers Doctoral (Ph.D.), Post Graduate (M. Tech. and MBA) as well as Under Graduate (B. Tech.) programs in the various disciplines of Engineering, Sciences and Management.

Mathematics plays a key role in the development of modern sciences, engineering, management and many other important areas of activities. With this aim in mind the Department of Mathematics was created from the very inception of the institute. Besides catering to the basic needs of the various B.Tech./M.Tech. programs of the Institute, it had a strong fervour towards research and development from the very beginning and efforts are being made for the convergence of Mathematics with other

disciplines by introducing courses of interdisciplinary nature such as Wavelets, Fractals and Chaos, Finite Element Method etc. The Department has a good blend of pure and applied Mathematics which provides a vibrant research atmosphere. The Department offers M. Tech. program in Applied and Computational Mathematics. At present a number of research scholars are working for a Ph. D. degree in various areas of specialization. Some of the areas in which research is being carried out are: Numerical Analysis, Computational Continuum Mechanics, Wavelets, Fractals and Chaos, Mathematical Analysis, Statistics, Fuzzy and Information Theory.

OBJECTIVE OF FDP

All over the world, human beings create an immense and ever-increasing volume of data, with new kinds of data regularly emerging from science and industry. A new understanding of the value of these data to society has emerged with a new and leading role for statistics. In order to produce sensible theories and draw accurate conclusions from data, cutting-edge statistical methods are needed. These methods use advanced mathematical ideas combined with modern computational techniques, which require expert knowledge and experience to apply.

KEY CONTENTS OF THE PROGRAM

- Error in Large Scale Surveys
- Model Building in Time Series Analysis
- Inferential statistics using R environment/ SPSS
- Heuristic and Metaheuristic Optimization
- Multiple Regression Analysis using SPSS
- Machine Learning and Statistical Techniques to understand Cancer and Other Disease
- Statistical Visualization and its Applications
- Business Statistics

WHO CAN PARTICIPATE

The program is open to all the faculty members/ scientists/ engineers working in Educational Institutes/ Industries/ R&D organizations. The registration form can also be downloaded from our website.

REGISTRATION FEE

The registration fee is **Rs. 2500/-** which includes lunch and tea during the program. No TA/DA or lodging will be provided.

A certificate of participation would also be provided to the participants.

CHIEF PATRON

Prof. S.C. Saxena, Vice-Chancellor, JIIT

CONVENER

Prof. Alka Tripathi, HOD (Mathematics), JIIT

EXTERNAL RESOURCE PERSONS

Prof. Sridhar Srivastava, NCERT, New Delhi

Dr. R. Pandey, University of Delhi, New Delhi

Dr. Himani Gupta, IIFT, New Delhi

PROGRAM COORDINATORS

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HOW TO REGISTER

Registration fee of Rs 2500/- can be paid either by cash, online transfer or demand draft drawn in favour of "Jaypee Institute of Information Technology" payable at Noida.

To complete the registration, the applicants are requested to fill the Google form provided in the link below

<https://docs.google.com/forms/d/1HZUjNaSinfES34ULmOhwHtXA7XYgTYGs2n-EjABKE>

or

The applicants are requested to e-mail a scanned copy of the duly filled following registration form at the email id: puneetranaiitr@jiit.ac.in along with payment proof.

Last Date for Online Registration: July 06, 2018

REGISTRATION FORM

Name :

Academic Qualification:

Designation :

Department :

Organization :

Address (O) :

Phone/Fax :

Email :

Payment Details (DD No./ :
Transaction No. etc)

Signature of the Candidate