

FACULTY DEVELOPMENT PROGRAM

on

Functional Analysis and its Applications

July 13- July 18, 2015



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 (JSS). It is situated near the Electronic City at Noida and is at a distance of about 3 kms from New Delhi – UP border. The state-of-the-art campus aims to become 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 Institute 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 Methods etc. The Department has a good blend of pure and applied Mathematics which provides a vibrant research atmosphere and offers M. Tech. program in Applied and Computational Mathematics. At present a number of research scholar 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 and Computational Continuum Mechanics; Wavelets; Fractals and Chaos; Mathematical Analysis; Statistics; Queuing, Fuzzy and Information Theory.

FACULTY OF THE DEPARTMENT

Prof. Bani Singh	Dr. Pato Kumari
Prof. G. S. Srivastava	Dr. Pankaj K. Srivastava
Prof. Alka Tripathi	Dr. Akhilesh K. Singh
Dr. A. K. Aggarwal	Dr. Dinesh Bisht
Dr. B. P. Chamola	Dr. Anuj Bhardwaj
Dr. Sanjeev Sharma	Dr. Gagandeep Singh
Dr. Lokendra Kumar	Dr. Yogesh Gupta
Dr. Amit Srivastava	Dr. Puneet Rana
Dr. Parul Tewari	Dr. Lakhveer Kaur

OBJECTIVES

Functional Analysis is recognized as a basic area of mathematics which encompasses the topics of linear algebra, abstract algebra, metric spaces and of course classical analysis. Now a days, it is finding many applications in Science and Engineering. The aim of this faculty development program is to give an exposure of the recent advances in Functional Analysis theory along with its fusion with approximation and wavelet theory to those who already have a background in this area and to provide a working knowledge of the tools to the faculty members, scientists, engineers from educational institutions. The main emphasis will be on the various applicational aspects without diluting the theoretical rigor.

CONTENTS OF THE PROGRAM

- Linear Algebra and Group Theory
- Metric Spaces
- Banach Spaces and their properties
- Hilbert Spaces and their properties
- Fixed Point Theory
- Approximation Theory and Wavelets
- Applications

WHO CAN PARTICIPATE

The program is open to all the faculty members/ scientists/ engineers working in Educational Institutes/ Industries/ R&D organizations.

REGISTRATION FEE

The Registration fee is **Rs. 2000/-** (Rs. Two Thousand only) which includes lunch and tea during the program. No TA/DA or lodging will be provided to the participants. Registration fee can be paid through a demand draft drawn in favour of "**Jaypee Institute of Information Technology**" payable at Noida, which may be sent to the following address along with the registration form and a passport size photograph of the applicant.

Prof. G.S.Srivastava

(PROGRAM COORDINATOR)

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Last Date of Registration: July 4, 2015

The registration form can also be down-loaded from our website www.jiit.ac.in.

A certificate of participation would be provided to the participants on conclusion of the programme.

For further information visit: <http://www.jiit.ac.in>.

REGISTRATION FORM

Name :

Academic Qualification:

Designation:

Department :

Organization :

Address (O) :

Phone/Fax :

E-mail :

Payment Details (DD No./Date/Amount) :

Signature of the Candidate