

POST GRADUATE AND RESEARCH DEPARTMENT OF MATHEMATICS

Annual REPORT- 2020-2021

The post Graduate and Research Department of Mathematics has been vibrant, dynamic and successful during the academic year 2020-2021 in terms of curricular, co-curricular and extended activities. The highlights of the year as follows:

Conferences/Workshops:

To build a strong research culture and bring in exchange of ideas, experiences between scientists, academicians and student fraternity the department organizes workshop, conference, guest lectures, webinars periodically. In this regard

National Conference on Mathematical Modelling with differential equations was conducted in online from 14th - 17th October, 2020. Distinguished resource person like Dr.P.G.Siddheshwar, Senior Professor, Department of Mathematics, Christ,Bengaluru, Dr.A.S.Vasudeva Murthy, Professor, Department of Mathematics, TIFR,CAM Bengaluru, Dr.Vijay Kumar,Professor,Department of Mathemaics, Faculty of Engg And Technology, Manav Rachna International Institute of Research & Studies, Faridabbad, Dr.S.Minirani, Associate Professor of Mathematics, Department of Basic Sciences and Humanities, MPSTME, NMIMS, Mumbai, India gave the talk related to the title of the conferences.

The second UGC Sponsored Online National Conference on Analysis and its Applications Focused on Fixed Point Theory was conducted on 24th - 25th February, 2021. Eminent resource person- Dr. S. Minirani, Associate Professor, Department of Basic Sciences & Humanities, MPSTME, NMIMS, Mumbai, Dr. Izhar Uddin, Assistant Professor, Department of Mathematics, Jamia Millia Islamia, New Delhi, Dr. M Marudai, Honorary Professor, Department of Mathematics, Bharathidasan University, Trichy and from various Universities gave the talk on Fixed point theory and its applications.

Department conducted two workshops. First workshop was on the topic “Geogebra” was conducted by Dr. S. Ganesh Mathematics teacher, PUM School, and the second workshop on Learning Latex was presented by Dr. S. Siva Subramanian Professor of Mathematics, Head of the Department Science and Humanities Anna University College of Engineering

Faculty Development Programme:

To improve the performance of faculty members in research and administration two Faculty development programme were conducted by the department. one on General and the other related to subject were conducted in the online mode. Renowned speakers like Ms. Rohini Chandramouli Freelance Trainer and Consultant, Examiner- Cambridge University, Dr. Thuppil Venkatesh Lead Man of India, Professor Emeritus, Department of Bio Chemistry and Biophysics, St. Johns Medical College, Bangalore, Dr. Mala Sridharan Associate Professor and Head, Department of Psychology, NMKRV College, Bangalore, Dr. T.S. Prema Associate Professor & Head, Department of Economics, DG Vaishnav College, Chennai, Dr. Murali Ganam Head, MA English DG Vaishnav College, Chennai gave the talk for the

general FDP Promising Success through inclusive Development . For the Subject FDP “Aspects of Mathematics we had the Renowned resource person Dr. Parameswaran Sankaran, Professor, Institute of Mathematical Sciences, Chennai, Dr. Kusumdeep, Professor, Department of Mathematics, Indian Institute of Technology, Roorkee, Dr. Jagadish Chand Bansali, South Asian University, New Delhi, Dr. K N Ragavan, Institute of Mathematical Sciences, Dr. Nagaraj, Professor, Chennai Mathematical Institute and professors from various universities across India.

Webinars:

The Department took a major role in the conduct of Webinars on pure and applied mathematics to give the students an in depth exposure to Mathematics. In this regard 27 webinars were conducted by the department with eminent resource person like Dr. T. Venkatesh, Director, Mathematical Science Institute Belgavi, Karnataka, Dr. K. A. Venkatesh, Adjunct Professor IIIT Bangalore, Professor of Mathematics and computer Science Myanmar Institute of Information Technology, Dr. Rajeswari Seshadri, Professor and Head Department of Mathematics, Ramanujan School of Mathematics, Pondicherry University, Dr.P.Srinivasan, Associate Professor, Department of Mathematics, Bharathidasan University etc.

Extension activity:

The department extended its expertise and knowledge sharing by conducting C⁴ – Chase, Conquer, Crack CSIR- NET a free online coaching class for NET aspirants of Mathematical Sciences .The series of online classes was inaugurated by the Principal Capt. Dr. S. Santosh Baboo, on 4th October 2020. The programme is a series of class conducted every week Saturday from 6.00 pm to 8.00 pm and Sunday from 11.00 am to 1.00 pm for the benefits of NET Aspirants. The topics include Analysis, Linear Algebra, Topology, Complex Analysis, Functional Analysis, Ordinary differential equations, Linear Integral equations and so on. More than 537 participants registered for this programme. So far 35 sessions have been conducted. The sessions were handled by Dr. K. A. Venkatesh, Dr. M. Marudai, Dr. N. Sridharan, Dr. Karupiah Kannappan, Dr. C. Elango, Mr. Gnanaprakasam, Dr. R. Sivaraman, Dr. S.P. Vijayalakshmi Dr. S. Hariharan, Dr. S. VaithyaSubramanian, Mr. P. Thirumal.

Research activity:

Teachers’s class was organized by the department of mathematics. The purpose of Teacher’s Class is to have intra and interdisciplinary collaborative research on open problems. The Teachers’ Class was inaugurated on 9th March 2021by Principal Dr. S. Santhosh Baboo. Principal emphasized the importance of providing solutions to real world problems through mathematics. He also mentioned about the role of mathematics in data science and data Analytics.

Annual Meet – Mathcipher:

- ❖ The annual Mathematics Meet “ Mathcipher- Inter collegiate students technical event” was hosted by the department on 18th March 2021 with the participation from various colleges. Many brainstorming competitions viz., Math quiz, Math Relay – Matharon, Paper Presentation, IPL Auction, Math π Rates were conducted and prizes were distributed to the winners.

Student Activity - BRAHMAGANITH- Mathematics Club:

Mathematics club named “BRAHMAGANITH” was inaugurated by the Dr. K. A. Venkatesh, Adjunct Professor, IIIT-B, India, Professor of Mathematics & Computer Science, Myanmar Institute of Information Technology, Mandalay, Myanmar.

As a part of Brahmaganith Mathematics club of DDGD Vaishnav college guest lectures were conducted by Dr. P. Usha and Lt. Somasundara Ori .

- ❖ The department also released the annual News letter “Mathphile”