

- Technical Reports(Last Five Years)

2016-17

A National Seminar on Functional Analysis and Harmonic Analysis:

A National Seminar on Functional Analysis & Harmonic Analysis was organized during 16th to 18th January 2017 in the department of mathematics. This seminar was sponsored by UGC-SAP-DRS-III. Dr Prakash A. Dabhi was the organizing secretary. The aim was to provide platform to the young mathematicians. There was no registration fee for the participants. All of them were provided boarding and lodging. We gave 30 to 40 minutes to each speaker to present their recent research work. There were about 43 participants all together from the nation. Among them 25 were speakers including paper presentation.

8th Workshop on Problem Solving in Mathematics:

Continuing its series of workshops, the Department of Mathematics, organized Eighth Workshop on Problem Solving in Mathematics under the auspices of its third phase of the UGC Special Assistance Programme during 25–30 January 2017. D J Karia was a Coordinator and J G Mehta was an Organizing Secretary of the workshop. Nearly 50 participants including 20 from other universities in Gujarat. All in all fourteen resource persons excluding our department faculty conducted these formal sessions devoted to problem solving in Topology, Complex Analysis, Real Analysis, Probability, Differential Equations, Number Theory, Algebra etc. The four formal sessions were followed by a session mathematically enlightening and refreshing. The session is christened as “Fun Session” in which the stock of the day would be taken and light problems/puzzles would be posed. A compilation of more than 3000 problems has evolved through this series of workshops and the same was shared with all the applicants in soft copy, saving the papers. The students were given lodging and boarding without any charge. There was no registration fees collected. The enthusiastic students also joined the online discussion group hosted by yahogroups.com named UGCNETMATH.

2017-18

A National Conference on Differential Geometry and General Relativity:

A “National Conference on Differential Geometry and General Relativity” was organized on November 28-29, 2017 in the department of mathematics. This conference was sponsored by The Tensor Society of India. This conference is regarded as Annual Conference of The Tensor Society of India. Prof. A.H. Hasmani was the Coordinator. The aim was to provide platform to the young mathematicians all over India. This year being birth centenary year of Prof. P.C. Vaidya, the keynote address of the Inaugural function was based on his life and work, the address was given by Prof. Zafar Ahsan. There were about 76 participants all together. Among them 44 were speakers. There were 24 speakers including 2 plenary talks, 11 invited talks, 11 paper presentations on Differential Geometry and 20 paper presentations on General Relativity. Four different awards were given to the unpublished research work by young researchers.

9th Workshop on Problem Solving in Mathematics:

Continuing its series of workshops, the Department organized Ninth Workshop on Problem Solving in Mathematics funded by the UGC Special Assistance Programme during 02-07 May 2018. D J Karia was a

Coordinator and J G Mehta was an Organizing Secretary of the workshop. There were 21 outside participants and 26 local participants. The number of resource persons was twenty. All of them cleared NET-JRF in the past. The problems covered in this workshop include subjects like Topology, Complex Analysis, Real Analysis, Probability, Differential Equations, Number Theory, and Algebra. We did not keep registration fee. The boarding and lodging were provided free of charge. A compilation of problems has evolved through this series of workshops and the same was shared with all the applicants in soft copy, saving the papers.

An International Conference:

An “International Conference on Banach Algebra, Harmonic Analysis and Operator theory” was organized on November 20-22, 2018 under UGC-SAP-DRS-III program. The conference was a great success. There were 6 foreign speakers, 12 senior Indian speakers, 14 papers presentations and total more than 60 participants. The Vice- Chancellor of our university, Prof. Shirish Kulkarni inaugurated the conference. Prof. H.V.Dedania was organizing secretary as well as Coordinator of Scientific committee. Prof. A.H. Hasmani was Coordinator of Advisory committee.

2019-20

10th Workshop on Problem Solving in Mathematics:

Continuing its series of workshops, the Department of Mathematics organized 10th Workshop on Problem Solving in Mathematics funded from the Departmental Development Fund during 17th -22nd February 2020. Prof. H. V. Dedania was a Coordinator, and J G Mehta and VaishaliGoswami were Organizing Secretaries. The registration fee was Rs. 250 for department students and Rs. 500 for other students. There were 66 participants including 26 from other universities. There were 21 resource persons conducting one session each. In this workshop, we invited resource persons who cleared NET-JRF recently. There were 4 resource persons in Linear Algebra, 4 in Real Analysis, 2 in Abstract Algebra, 2 in Topology, 2 in Complex Analysis, 2 in Linear Integral Equations, 2 in Probability Theory, 1 in ODE& PDE, 1 in Numerical Analysis, and 1 in Number Theory.

N.B.: The Department brings out Technical Reports containing announcements of departmental research and they are circulated in India and abroad. Technical reports are being brought out since 1980 and so far 28 reports brought out.