

# Department of Mathematics

## Annual report 2016-17

### **Seminars / Invited talks**

The department conducted a regional seminar on 'Cardinal numbers' on 22-12-2016 as part of Education Innovation programme. Sri Shinoj K M , St. Joseph's College, Devgiri was the resource person. An invited talk on 'Calculus of several variables' was conducted on 8-3-2017 as part of WWS. Dr Sandeep K, Associate Professor G, TIFR Centre for Applicable Mathematics, Bangalore, Winner of Shanti Swarup Bhatnagar Award was the resource person. A talk on 'The Monte Hall Problem and related topics' by Dr Muhammed Fareed, Principal, W M O Arts & Science College was conducted on 19-12-2016 as part of inauguration of Mathematics Association.

### **Observance of National Mathematics Day**

Observing National Mathematics Day, a series of programmes were conducted in the third week of December 2016. A Mathematics poster presentation competition was conducted on 22-12-2016 and the winners were awarded prizes. Two documentaries on the Life of Ramanujan and his contributions, were exhibited. A mathematics Quiz was conducted on 21-12-2016.

### **Participation in Seminars/Workshops/ Conferences**

1. Mr Santhoshkumar attended Seminar on 'Linear Algebra' at Govt. College, Chittur during January 12-14, 2017.
2. Mr Santhoshkumar attended Refresher course for College Teachers on 'Algebraic Number Theory and Differential Equations' at Kerala School of Mathematics, Kozhikode during March 9-12, 2017.
3. Mr Santhoshkumar attended State level Seminar on 'Problems and prospects on Higher Education' at St. Mary's college, Sulthan Bathery during December 5, 2016.
4. Mr Syam Krishnan attended Summer Workshop for College teachers and Post graduate students at KSOM, Kozhikode during April, 2016.

### **Extension Programmes**

A coaching programme for State Eligibility Test(SET) was conducted during June- July, 2016 and January 2017. Mr Aboobacker P was the co-ordinator.

### **Extension Lectures delivered by Faculty Members**

Mr Aboobacker delivered a talk on 'Applications of Integration' at Imam Gazzali College, Koolivayal on 10-01-2017.

Mr Santhoshkumar delivered a talk on 'Vedic Mathematics' at St. Mary's College, Sulthan

Bathery.

### **Association Activities**

The Mathematics Association of the year 2016-17 was formally inaugurated by Dr Muhammed Fareed, Principal, W M O Arts & Science College on 19-12-2016. On that occasion, he delivered a talk on 'The Monte Hall Problem and related topics'. Association Secretary Mr. Jishnu P and team co-ordinated the meetings of the Mathematical Circle and other activities like Observance of National Mathematics Day, National Science Day, Pi Day etc.

A cartoon competition on the topic was conducted on 27-02-2017 for students of the college observing the National Science Day. The winners of the cartoon competition: I prize- Abdul Azees, I BA English, II prize – Muhammed Mushtak I BA English, III prize – Basila Fathima V A, I MSc Mathematics and Tony Mathew, III BSc Mathematics.

Observing Pi Day, a Mathematics Quiz was conducted on 14-3-2017 for students of other departments in the college. The winners of the Mathematics Quiz : I prize – Devendran K and Amjad Roshan M K, I BSc Physics, II prize – Sreelakshmi and Mufeetha K A, I BSc Physics, III prize – Akhina Prasad and Saisree M P, I BSc Chemistry.

### **Academic Visits**

A team of Mathematics students and teachers visited Kerala School of Mathematics on 23-12-2016. Dr.Parasar Mohanty, Dept of Mathematics, IIT Kanpur delivered a talk on 'Countable and uncountable sets' for the students.

A team of 38 Mathematics Statistics students and teachers visited Indian Institute of Science, Bangalore on 4-3-2017 to observe Open Day programme. An interactive session with Dr A K Nandakumaran, Professor, IISc Bangalore was conducted.

### **The Mathematical Circle**

Students of Dept. of Mathematics and Dept. of Statistics were divided in to 18 groups and they lead meetings of the Mathematical Circle performing various events like Exploring new mathematical ideas, Mathematical games and puzzles, short math quizzes, Math magics, problem contests etc. A total of 14 meetings of the Circle was conducted during the year 2016-17.

### **Mathematical Problems Contests**

During the year, Five Mathematics problems contests were conducted. Mr Muhammed Shaheer, Ms Akhila Maria Regal, Mr Saneesh Babu and Ms Kavya P V are the winners.

### **Manuscript magazine**

A manuscript magazine 'Noolizha' was released on 7-4-2017. Ms Riya Scariya, II BSc Mathematics was the student editor of the magazine.

## **Achievements of Students**

1. Syam Krishnan, II MSc Mathematics secured CSIR-JRF in June 2016.
2. Athulya P S and Jihana Sherin of II BSc Mathematics won I prize in the intercollegiate Mathematics Quiz held at Mary Matha Arts & Science College, Mananthavady
3. Sarang M J and Kavya P V of I BSc Mathematics won II prize in the intercollegiate Mathematics Quiz held at Farook College, Kozhikode
4. Sarang M J and Ramshad V won first prize for Science Quiz at W M O Arts & Science College conducted by Dept. of Computer Science.
5. Many students won prizes for individual and group items during F-Zone Arts Fest.