

**REPORT ON THE SECOND TWO-DAY WORKSHOP FOR MATHEMATICS TEACHERS OF
STANDARDS 9 TO 12**

The Second Two-day Workshop for Mathematics Teachers of Standards 9 to 12, sponsored by Azim Premji University and Ramanujam Mathematical Society was held on 7th and 8th of November, 2014 at the Department of Mathematics, CUSAT. The day one began with a short Inaugural meeting, in which Prof. Ambat Vijayakumar, Prof. P G Romeo (HOD), Smt. Sneha Titus and Mr. K Suresh spoke. Academic programmes started by focusing on an interesting publication ‘At Right Angles’, by Azim Premji University, which is a true resource for school mathematics. A theme based publication, ‘Learning Curve’ was also included. This was followed by a review of the previous workshop, Birthday paradox and origamics. A puzzle ‘Dumble Door’ was also discussed .

The forenoon session continued with an eye-opening lecture on “What is Happening in Mathematical Sciences- Challenges and Excitements”, through an RMS lecture by Dr. Ambat Vijayakumar, Professor, Department of Mathematics, CUSAT. He opened to us the vast and varied topics which we have not even heard about. He told us that new theories in Mathematics are evolving every day. The Euclidean geometry and Galilean theory have been receiving fundamental changes and that they may not hold true in real world always. Therefore new branches of geometry and theories have evolved. He imbibed in us the thought that we have to keep learning and exploring every time. He took us to the subjects like fractals, coding theory and cryptology.

The afternoon session began with a ‘Pentomino Puzzle’ by Smt. Sneha Titus from the Azim Premji University. She used activities of paper folding and cutting as a tool for introducing proofs. She insisted on the idea that students should be allowed to explore and understand the properties themselves through various activities, thereby stating the theorems and proofs on their own, than giving theorems to them directly. It was a very interesting experience.

The second day of the workshop began with a Cipher problem by Smt. Sneha Titus. She enthralled us by explaining ciphering and deciphering with examples. This was followed by RMS lecture by Dr. Manju. K. Menon, from St. Paul’s College, Kalamassery on ‘Recurrence Relations’. The presentation was quite satisfactory .The afternoon session was about conic sections through paper folding and Geogebra.

The workshop concluded with an interactive session where the teachers who had attended previous workshops shared their experience of using the ideas and activities included in the magazine ‘At

Right Angles'(AtRiA). All teachers spoke very high of the magazine and urged others to subscribe the magazine and follow the methods explained in it.

The workshop was attended by about 40 teachers from different parts of Kerala from aided, unaided and government sectors.

Prepared by:

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