



NATIONAL CONFERENCE ON MATHEMATICS

“GOOGOL 2017”

ORGANIZED BY

BIRLA BALIKA VIDYAPEETH, PILANI (RAJ.)



Birla Balika Vidyapeeth, a Platinum Jubilee School has initiated a series of National Conferences inviting eminent personalities of different subjects from all over the country since year 2016. A National Conference on Mathematics was organized on 15th & 16th April 2017. The motive is to provide a bigger horizon & higher goals for our young minds . A total of 10 schools with 16 participants each from the age group of classes VI to XII participated in the Conference. The two day National Conference was held with five sessions as follows:



Session 1-Commenced with the Inaugural Ceremony & Keynote address by the Chief Guest **Prof. Govindan Rangarajan**, Chairman Interdisciplinary Science Research, Department of Mathematics, Indian Institute of Science, Bangalore on the topic “**Brain Machine Interface**” . The talk enlightened the audience with the role of Mathematics in successful working of the brain, a theme with perfect blend of Maths, Physics and Biology.

Session 2– A lecture session chaired by **Dr. Amit Kumar Verma** on the theme “**Maths made easy**”

Dr. Prashant Srivastava, Indian Institute of Technology, Patna, on the topic “**Fun with mathematics**” was interactive and was all about playing **Mathemagic** with numbers. **Dr. Dheerendra Mishra**, LNM institute of information & Technology, Jaipur presented on the topic “**The Mathematics of Secret Writing**” discussing about new language i.e., Cipher ‘**Encryption & Decryption**’. **Dr. Amol M. Marathe**, Birla Institute of Technology & Science, Pilani presented on the topic “**Euler Characteristics**” gave some amazing facts about relations between vertex, edge and faces of a 3D figures. He explained the concept of connectivity in 3D shapes. **Dr. Amit Kumar Verma**, Indian Institute of Technology, Patna presented on the topic “**Fermat’s Last Theorem from Pythagoras to Andrew Wiles**” was extremely interesting. He introduced all the young brains to think of research by following the work of a Mathematician, talked about Princeton University and Abel Prize which will widen their horizon and that is the basic motive of conducting such conferences.

Most important aspect of these lectures was that they were interactive and Professors of IISc. Bangalore & IIT level could come down to the level of our students and our students could understand what they are explaining.

GLIMPSES OF LECTURE SESSION



Prof. Govindan Rangarajan



Dr. Amit K Verma



Dr. Amol Marathe



Dr. Dheerendra Mishra



Dr. Prashant Srivastava

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PROF. GOVINDAN RANGARAJA
 Chairman, Division of Interdisciplinary Research
 Department of Mathematics, Indian Institute of Science
 Bangalore

GUEST SPEAKERS
Dr. AMIT KUMAR VERMA,
 Indian Institute of Technology, Patna
Dr. PRASHANT SRIVASTAVA,
 Indian Institute of Technology, Patna
Dr. AMOL M MARATHE,
 Birla Institute of Technology & Science, Pilani
Dr. DHEERENDRA MISHRA,
 IITM Institute of Information Technology, Tapur



Session 3 – Competitions for students on the Theme “**Maths made interesting**”. Here the department of Mathematics, Birla Balika Vidyapeeth designed the events in a such way the students of Class VI to Class XII could showcase their mathematical logical thinking aptitude & intelligence.

MATHS WIZARD was a written test for Class XI & XII. The question paper was a multiple choice paper designed by Dr. Amit Verma testing their Intelligence Quotient.

DESIGNING SHAPES was the event for Class VI & VII students – a kit of 12 shapes was provided to each team, children were to design the shapes and speak about their imagination. This event was judged by Dr. Lajja Verma, Ms. Swati Sharma, Ms. Shruti and Ms. Bhavya Tripathi.

MATHS MUSING was the event displaying a Poster related to any topic of Mathematics for students of classes IX to XII. This was judged by Dr. Amol Marathe, Dr. Prashant Srivastava and Dr. Dheerendra Mishra. Around 10 posters were presented by the students on the stage. The competition assessed the Creativity, Presentation and Knowledge Quotient of students.

The Field event consisted of **solving rubiks cube** by 400 students of Vidyapeeth in a given 5 minutes time.

MATHEMATICAL RELAY RACE was a competition for the students of Class VIII & IX in which the students had to run a distance of 25 metres to solve a question & return to give the pen to another participant. The questions were based on Vedic & Mental Maths . The three BITS PhD scholars judged the event. This interesting event was to test the students Speed & Numerical Quotient. The field events culminated with a spectacular Band Display .



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Session 4 – A PANEL QUIZ for the students of Class XII designed and conducted by Dr. Amit Kumar Verma. The Quiz assessed the students on Mathematical Applications in real life, concept understanding and speed.

MATHS APPS was a Project presentation by the students of Classes IX to XII. The students were given 6 minutes to present a topic on “**Discovering Mathematics**” and were judged by Dr. Amol Marathe, Dr. Amit Verma and Dr. Lajja Verma. The objective of this competition was to encourage the young minds towards research, presentation and learning outcome of the team.

A cultural evening displaying cultural extravaganza entertained the guests and participants on 15th April



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Session 5 - In the Valedictory session, Feedback from all the participants of all schools were invited Student representatives of all schools opened up their mind on the necessity and usefulness of such conferences. Overall Result— BBV students bagged Winner’s Trophy, BIS students bagged 1st Runner’s up Trophy and BPS students bagged 2nd Runner’s up Trophy. Mrs Achala Verma, Sr Academic Coordinator and the Organizing Secretary of the Conference, presented the brief report of the conference. Dr. Amit Kumar Verma presented the Valedictory note and the Chief Guest Prof Govindan Rangarajan delivered the Valedictory Address to the gathering. Mrs. Usha Dhaka, HOD Mathematics and Convener proposed the vote of thanks.

