

## **SSM Institute of Engineering and Technology**

### **“BORN GENIUS RAMANUJAN – MATHEMATICS CLUB”**

#### **Objectives**

- To motivate the students towards the art of mathematics with interest and involvement
- To promote mathematics to Engineering students in an easy way
- To provide excellent opportunities for students to break away from the monotony of a grid and structured classroom environment.
- To create an idea of practical utility of mathematics.

#### **Importance of Mathematics Club**

Math club can also be a low-investment, high return resource for students which produces a win-win benefits for all. A well-run math club will also make it fun for math club students to learn math by training them in problem solving abilities through fun and enticing problems. Through math club, students no longer have to face aforementioned conflicts that burden them. Math club students tend to make the transition into calculus more smoothly, and tend not to lose focus about the purposes of math.

Outside of math club, math is less a matter of logic, but simple memorization. Memorization is a technique that works perfectly well until the students reach Calculus, a field of mathematics that draws very little upon the interconnected fields of math before Calculus. Students with a strong logic foundation in math succeed in Calculus, while students who follow the technique of memorization tend to struggle. Problem solvers can make the adaptation quickly, and while other students relying on memorization will also be able to do so as well, it takes them much more effort and dedication to do so. Many calculus students find themselves going through the course without a basic understanding of the foundational concepts. They simply try to absorb and regurgitate the material on tests, which is not only a painful strategy but one that will fail them in the long run unless they make quick adjustments, starting from ground zero. This contributes to the negative social stigma of math.

| S.NO | Date                           | Event   | Expert Details   |
|------|--------------------------------|---|--|
| 1    | 29.07.2017                     | “Born Genius Ramanujan” Math Club Inauguration  | Dr. R. Chandran, Campus Director, SSMIET.<br>Dr. M. Saravanan, Principal, SSMIET.                                  |
| 2    | 22.12.2017                     | “National Mathematics Day” Magazine Release and Math Expo   | Dr. T. Ramachandran, Head of the Department, Department of Mathematics, MVM Government Arts college for women      |
| 3    | 26.07.2018                     | Math Club Inauguration and Logo Release   | Dr. R. Chandran, Campus Director, SSMIET.<br>Dr. M. Saravanan, Principal, SSMIET.                                  |
| 4    | 04.02.2019<br>to<br>08.02.2019 | Play With Math.   | Dr. R. Chandran, Campus Director, SSMIET.<br>Dr. M. Saravanan, Principal, SSMIET.                                  |
| 5    | 12.02.2019                     | Valedictory Function and Magazine Release.  | Dr. R. Uthaya Kumar, Professor and Head, Department of Mathematics, Gandhigram Rural Institute (Deemed University) |
| 6    | 29.01.2020                     | SCIFEST-2020 organized by Born Genius Ramanujan-Math Club and Young Innovators Club jointly.                                      | Dr. R. Chandran, Campus Director, SSMIET.<br>Dr. M. Saravanan, Principal, SSMIET.                                  |
| 7    | 06.05.2021                     | IDEATHON 2021 organized by Institute Innovation Council of SSMIET with Born Genius Ramanujan-Math Club and Young Innovators Club. | Dr. K. A. Sundararaman, AP & HoD<br>S. Dhamodharan, AP/ ECE  |

**Academic Year:** 2017-2018

Born Genius Ramanujan - Math club was inaugurated on 29<sup>th</sup> July, 2017 with 150 students enrolled. Students were selected from various branches as the office bearers for the academic

year 2017 – 2018. The motto of the club is to promote mathematics to Engineering students in an easy way. The club makes the students become passionate towards Mathematics.



**Event Name: National Mathematics Day**

**Date: 22<sup>nd</sup> December, 2017**

As a tribute to the great mathematician **Srinivasa Ramanujan**, his birthday 22<sup>nd</sup> December 2017 was celebrated as **National Mathematics Day** in our college.



**Name of the Math Club: “Born Genius Ramanujan” - Math Club**

**Inauguration and Logo Release: 26<sup>th</sup> July, 2018**

**Academic Year: 2018-2019**

Born Genius Ramanujan - Math club was inaugurated on 26<sup>th</sup> July, 2018 with the enrollment of 550 students. Students were selected from various branches as the office bearers for the

academic year 2018 – 2019. On that day, Math Club logo was released by our Principal, Dr.M.Saravanan.

### Math Club – LOGO



### Activities of Mathematics Club

**Event Name: National Mathematics Day**

**Date: 22<sup>nd</sup> December, 2017**

To expose the student's talents, more than 30 mathematics models were exhibited with fun games on National Mathematics Day. Students actively participated in that event. To encourage the students towards Mathematics, an annual Math Magazine was also published on National Mathematics day.

### **Magazine Release**



| S. No.                   | Branch  | No. of participants |
|--------------------------|---------|---------------------|
| 1                        | II CSE  | 28                  |
| 2                        | I ECE   | 3                   |
| 3                        | II ECE  | 1                   |
| 4                        | II Auto | 1                   |
| Total number of students |         | 33                  |

### **Math Models**



## SSM INSTITUTE OF ENGINEERING AND TECHNOLOGY

### DEPARTMENT OF MATHEMATICS

#### REPORT ON –MEGA MATH FEST “PLAY WITH MATH”

To encourage young learners to get involved in math, to dispel math phobia and create a love for the subject, to perceive the connection of mathematical concepts with real life situations, were the primary objectives of the “**Play with Math**” celebrations that was in perfect sync with the objectives of



our very own Born Genius Ramanujan Math club. The resounding success of the celebrations is the outcome of tireless efforts put in by the resource team comprising of students and maths faculty members, ably guided by the head of the department and well supported by the principal, Director and the management.

Mega Math Fest- “Play with Math” was celebrated in SSMIET, Dindigul from 4<sup>th</sup> to 8<sup>th</sup> February, 2019 across all branches.

On Day 1 (04.02.2019), the events conducted were ‘**Math Billionaire**’ and ‘**Paper Presentation**’ where more than 50 students actively participated. For ‘Paper Presentation’ event Dr.G.Sankaranarayanan, HOD/ Mechanical, Mr.D.Manoj, AP/ EEE and Dr.K.Renganathan, AP/Mathematics were invited as the jury. Students presented various papers regarding the application of Mathematics in Engineering.

On Day 2 (05.02.2019), the events conducted were ‘**Math Debugging**’ and ‘**Math Rangoli**’ where more than 60 students actively participated. For ‘Math Rangoli’ event Dr.P.Booma Devi, HOD/EEE, Ms.T.Leela Priyadharsini, AP/ ECE and Mrs.S.Kavitha, AP/Mathematics were invited as the juries. Students gained knowledge to find the logical errors in solving math problems by participating in the event “Math Debugging”.

On Day 3 (06.02.2019), the events conducted were ‘**Math Hunt**’ and ‘**Math Art**’ where more than 70 students actively participated. For ‘Math Art’ event Dr.M.Santhosh, HOD/Automobile Engineering, Mr.N.Saravanakumar, HOD/ Civil Engineering and Ms.R.Vithya Devi, AP/Mathematics were invited as the jury. Students exposed their talents by participating in the event ‘Math Art’ on the topic Beauty of Mathematics. Students participated in ‘Math Hunt’ really enjoyed in solving mathematical questions to find their next clue.

On Day 4 (07.02.2019), the events conducted were ‘**Math Modelling**’ and ‘**Math Photography**’ where more than 40 students actively participated. For ‘Math Modelling’ event Dr.K.A.Sundararaman, AP/Mechanical Engineering, Mr.M.Ramesh, AP/ Mechanical Engineering and Ms.S.Sudha, AP/Mathematics were invited as the juries. Students exhibited their talents by participating in the event ‘Math Modelling’. Our Principal Dr.M.Saravanan visited and motivated the students for participating in the event ‘Math Modelling’. For ‘Math Photography’ event Dr.N.Sampath Kumar, HOD/Chemistry, Dr.Sri NithyaNareshananda, AP/ Physics and Mrs.S.Kavitha, AP/Mathematics, were invited as the juries. Students exposed their talents by taking photographs in the topic “Nature and Mathematics”. That is, how mathematics is correlated with the real world. Participants were highly appreciated by the juries.

On Day 5 (08.02.2019), the events conducted were ‘**Multimedia Presentation**’ and ‘**Brain Teaser Games**’ with nearly 70 students participated. For ‘Multimedia Presentation’ event Dr.S.Singaravadevel, AP/Chemistry, Dr.Sri NithyaNareshananda, AP/ Physics and Mr.R.Satheesh Babu, AP/Mathematics were invited as the juries. Students exposed their talents by participating in the event ‘Multimedia Presentation’ on the topic “World without Mathematics”. Students enjoyed in participating in the event Brain Teaser Game.

| Technical Events         | No. of participants |
|--------------------------|---------------------|
| Math Billionaire         | 36                  |
| Paper Presentation       | 19                  |
| Math Debugging           | 25                  |
| Math Hunt                | 80                  |
| Math Art                 | 12                  |
| Brain Teaser Games       | 69                  |
| Math Photography         | 28                  |
| Multimedia Presentation  | 13                  |
| Math Rangoli             | 18                  |
| Math Modelling           | 19                  |
| Total number of students | 319                 |



**SSM INSTITUTE OF ENGINEERING AND TECHNOLOGY**

**DEPARTMENT OF MATHEMATICS**

**MEGA MATH FEST “PLAY WITH MATH”**

DAY 1: 04.02.2019

**Math Billionaire**





DAY 1: 04.02.2019

### **Paper Presentation**



DAY 2: 05.02.2019

### **Math Debugging**



DAY 2: 05.02.2019

### Math Rangoli



DAY 3: 06.02.2019

### Math Hunt



DAY 3: 06.02.2019

### **Math Art**



DAY 4: 07.02.2019

### **Math Modelling**



DAY 4: 07.02.2019

**Math Photography**

**Fractals**





DAY 5: 08.02.2019

**Multimedia Presentation**



DAY 5: 08.02.2019

**Brain Teaser Games**





**SSM INSTITUTE OF ENGINEERING AND TECHNOLOGY**

**DEPARTMENT OF MATHEMATICS**

**MEGA MATH FEST “PLAY WITH MATH”**

**Valedictory Function and Magazine Release**

**Date: 12.02.2019**



The week long celebrations of Mega Math Fest – Play with Math came to a close with a valedictory function and Magazine release. Dr.R.Uthaya Kumar, Professor and Head, Department of Mathematics, Gandhigram Rural Institute (Deemed University) was invited as the chief guest. He delivered the lecture on "Mathematics around us". He enthralled the audience with a lecture on the beauty of mathematics in architecture, 'taxi cab geometry' and graph theory. Our Principal Dr.M.Saravanan, Campus Director Dr.R.Chandran and our chief guest released the Annual Math Magazine Volume -2. The Prize distribution of various competitions held during the week was distributed much to the excitement of the students. The curtains were brought down with the reading of the formal vote of thanks.



**SSM INSTITUTE OF ENGINEERING AND TECHNOLOGY**

**Born Genius Ramanujan-Math Club and Young Innovators Club**

**SICFEST-20**

**Date: 29.01.2020.**



## Report on SICFEST-20

Born Genius Ramanujan-Math Club and Young Innovators Club jointly organize SCIFEST-2020. The purpose of this event is to showcase and enhance the skills of the students. Both Technical and Non-Technical events have been conducted. Each event was guided by the faculty team. Events were divided into 4 slots. Each student can participate in any number of events.

| Technical Events         | No. of participants | Non-Technical Events           | No. of participants |
|--------------------------|---------------------|--------------------------------|---------------------|
| Science Billionaire      | 10                  | SSM First Year<br>Super Singer | 6                   |
| Paper Presentation       | 10                  | Mime                           | 17                  |
| Debugging                | 20                  | Cook without Fire              | 23                  |
| Crack Your Brain         | 6                   | Photography                    | 6                   |
| Project Expo             | 5                   | Art from Waste                 | 28                  |
| JAM ( Just a Minute)     | 20                  | Group Dance                    | 13                  |
| Total number of students |                     |                                | 164                 |

## Crack your Brain



## Paper Presentation



## Project Expo:



Science Billionaire



Art from waste



**Cook without fire**



**JAM**





**SSM Super Singer**



## Report on **IDEATHON 2021**

Institute Innovation Council of SSMIET jointly with Born Genius Ramanujan-Math Club & Young Innovators Club organizes the event IDEATHON – 2021 for the students on 06.05.2021. The main aim of this event is to encourage, inspire and nurture young students by supporting them to work with new ideas and transform them into prototypes.

Participants – First Year Students from all branches

Total number of participants : 24



