

## Mathematical Model Exhibit : Individual Event

To prepare mathematical models in any sub-discipline of mathematics and bring it for display. Maximum of 2 exhibits per college.

**General rule :** All events are purely mathematics related.

### IMPORTANT DATES:

Last Date for Paper Submission : 02.02.2019  
Intimation of Selected Papers : 07.02.2019  
Confirmation of participation by students : 08.02.2019  
**\*REGISTRATION** (for all events) via Email or College Website **CLOSES ON** : 04.02.2019

\*Spot registration NOT PERMITTED.

### Dr. K. Subathra

Convener, Mathophilia – 2019  
Sri Sairam Engineering College  
West Tambaram – 600044.

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**Note :** Participants are kindly requested to follow formal dress code.

Mobile phones are prohibited inside the campus.



## PROGRAM SCHEDULE

Registration	: 8.30 a.m.
Inauguration	: 9.15 a.m.
Paper/Poster presentation:	10.00 a.m. to 12 noon
Model Exhibit	: 10.00 a.m. to 12 noon
Olympiad	: 11.00 a.m. to 12 noon

(Students who participate in Paper presentation, Poster presentation and Olympiad will be presenting their paper and poster before 11.00 a.m.)

Lunch	: 12.00 noon to 1.00 p.m.
Prelims Quiz	: 1.00 p.m. to 1.30 p.m.
Sudoku	: 1.30 p.m. to 1.50 p.m.
Quiz finals	: 2.15 p.m. to 3.15 p.m.
Prize Distribution	: 3.15 p.m. to 3.45 p.m.



## Department of Mathematics - Maths Club

One Day Intercollegiate Mathematics Contest

# Mathophilia-2019

Thursday, 14<sup>th</sup> February 2019



### Ramanujan's nested radical

$$3 = \sqrt{1 + 2\sqrt{1 + 3\sqrt{1 + 4\sqrt{1 + \dots}}}}$$

*Proof:* Define  $f(x) = x + n + a$ , so that  $f(x)^2 = ax + (n+a)^2 + xf(x+n)$ .  
Set  $a = 0$ ,  $n = 1$ ,  $x = 2$  and substitute recursively for  $f(x)$ .



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## SAIRAM ENGINEERING COLLEGE

Accredited by NBA and NAAC "A+" | An ISO 9001:2015 Certified and MHRD NIRF ranked institution

Sai Leo Nagar, West Tambaram, Chennai-44

www.sairam.edu.in

## ABOUT THE INSTITUTION

Sri Sairam Engineering College, Chennai was established in the year 1995 by Philanthropist, Educationist and Industrialist, Shri. M. Jothi Prakasam alias MJF. Ln. LEO MUTHU, Chairman and Managing Director of Sai Leo group of companies and Educational Institutions. The college is situated among sylvan surroundings in an area of more than 100 acres at Sai Leo Nagar and well within the metropolitan city limits. The location of our institution with its lush greenery is calm and conducive for excellent academic pursuits.

Our college offers nine B.E. / B.Tech. Under-Graduate Degree and nine Post Graduate Degree programmes. More than three hundred well-qualified, experienced and dedicated faculty members are contributing towards the growth and development of this institution.

Our College is an ISO 9001:2015 certified, NBA and NAAC 'A+' accredited institution. The Institution has well-established infrastructure facilities. Fully Air-conditioned College Library has more than Seventy Five thousand books and journals in the various fields of Engineering, Technology and Science. The laboratories are well – equipped and managed by skilled technicians.

## ABOUT THE DEPARTMENT

The Department of Mathematics has dedicated, well-qualified and research oriented faculty members. Eight of them possess doctoral

degrees and others are pursuing their Ph.D. programs.

Presently the department is active in the following areas of research namely Artificial Intelligence, Complex Analysis, Cryptography, Fuzzy set theory, Graph theory, Mathematical Biology, Operations Research and Wavelets.

## OBJECTIVES OF THE CONTEST

To motivate and encourage students to learn additional mathematical concepts apart from the prescribed syllabus and help them understand, appreciate and enjoy applications of Mathematics in their field of study, Mathematics Club was started in the year 2006.

As part of the Mathematics Club, a One Day Intercollegiate Mathematics Contest “Mathophilia 2019” is being organized with the aim of

- ★ Stimulating interest in the learning of Mathematics
- ★ Enhancing the skill for applying Mathematics in various domains
- ★ Providing a platform for mathematically talented students to exhibit as well as test their potential
- ★ Giving opportunity for fruitful interaction between students of Science and Engineering disciplines.

## EVENT DETAILS

### Paper presentation : Individual Event

Duration: 10 minutes

- Topics:**
1. Applications of Graph Theory in Computer Science
  2. Mathematics in Robotic Automation
  3. Statistics in Data Analytics

Maximum of 2 participants per college.

### Poster presentation : Individual Event

To prepare a poster and illustrate the application of mathematics with respect to anyone of the following topics:

1. Contribution of Srinivasa Ramanujan
2. Mathematical Models in Science and Engineering

Maximum of 2 participants per college.

### Olympiad : Individual Event

Duration: 60 minutes

Ten problems will be given; maximum possible number of them to be solved.

Maximum of 2 participants per college.

### Quiz : Team Event

Duration: 60 minutes

Each team to consist of two members; five teams to be selected for finals based on their performance in the prelims.

Maximum of 2 teams per college.

### Sudoku Contest: Individual Event

Duration: 20 minutes

A Sudoku square will be given to the participants.

Maximum of 2 participants per college.