



St. Ann's College for Women  
(Autonomous), Affiliated to Osmania University,  
NAAC Accredited with A+ Grade (3rd cycle), college with potential for Excellence by UGC  
Mehdipatnam, Hyderabad.



## DEPARTMENT OF MATHEMATICS

### MATHS MONOLITH

The Beauty and Strength of Maths....

#### **Motto:**

*“Integrating Minds to Infinite Limits”*

#### **Vision:**

*we visualize implementation of innovative concepts and techniques, to inculcate the love for mathematics, a desire to excel in mathematics and research inclination.*

#### **Mission:**

*The department aims at providing students with excellent teaching to enhance their abilities to critically assess numerical and graphical information learn to formulate strategies for solving problems and acknowledge the importance of being intellectually smart.*

#### **Objectives:**

- Encourage and implement new methodologies in teaching and evaluation through both online/offline modes.*
- Use modern tools of educational technology to achieve higher standards and greater creativity.*
- To promote academic excellence and inculcate the basic knowledge of mathematics through courses which develops abstract, logical and critical thinking.*
- To promote healthy practices such as community service, extension activities beyond curriculum.*

## SOCIAL DRIVE @ DEPARTMENT UNDER MANASA

Loyola Academy in collaboration with St. Ann's college for women has conducted competitions for students on the occasion of National Mathematics day, 14th December, 2022 in the Loyola Academy campus  
Winners of inter collegiate competitions:

### Student presentations:

1st prize winner - Hira Fathima  
3rd prize winner - Nandini Pulipati

### Math-Olympiad:

3rd prize winner - Akshaya

### Math-Quiz:

2nd prize winners - B.Nikitha, B.Srinidhi, K.kaveri, O.malavika, G.akshaya



## Extension service- visit to Government school, Kulsumpura

To commemorate the birth Anniversary of the great Indian Mathematician Srinivasa Ramanujan, National maths day was celebrated on 22 December by visiting the school with Students.

## National Level Lecture series- Igniting Young Minds towards Mathematics Research from January 5th -14th 2023

Department of Mathematics  
organizes  
**National Level Lecture Series**  
Igniting Young Minds towards Mathematical Research

 <b>Dr. A. Sairam Kallraj</b> Assistant Professor Department of Mathematics, IIT Ropar Lecture: Applications of Linear Algebra in Real-World Problems 5th January, 2023	 <b>Dr. Subash Marthia</b> Associate Dean(Student Affairs) Former Head, Department of Mathematics IIT Ropar Lecture: Applications of Differential Equations and Numerical Methods 6th January, 2023	 <b>Dr. Satya Prakash Singh</b> Assistant Professor Department of Mathematics and Statistics IIT Kanpur Lecture: Linear Progression for Data Science 7th January, 2023	 <b>Dr. Tapas Chatterjee</b> Associate Professor Department of Mathematics IIT Ropar Lecture: Art of Research 9th January, 2023
 <b>Dr. Jitendra Kumar</b> Professor Head, Department of Mathematics IIT Ropar Lecture: Mathematics without boundaries: Applications in Science and Engineering 10th January, 2023	 <b>Dr. Vikas Vikram Singh</b> Assistant Professor Department of Mathematics IIT Delhi Lecture: Optimization Theory and its Applications 12th January, 2023	 <b>Dr. Dootika Vata</b> Assistant Professor Department of Mathematics and Statistics IIT Kanpur Lecture: Statistics and Data Science 14th January, 2023	

Registration Link : [\[Link\]](#)  
Platform: Zoom  
Timing: 4:30pm - 6:30pm

Chief Patron: Dr. Sr. P. Anurtha, Principal  
 Advisory Committee: Dr. Smitha Asthana, IITAC Coordinator  
 Advisory Committee: Dr. Nirmla Xavier, HOD  
 Convenors: Dr. Saba Firdous, Dr. Santoshi Misra  
 Organizing Committee: Mrs. Jagamal Rani (Ph.D), Mrs. Saba Sowjanya(Ph.D)



## PAWMENCAP Parents Association for the welfare of Mentally Handicapped Persons

To help the children of PAWMENCAP, sale of books made by them was organised by the department



Ms. Nashrah Fatima of B.Sc. II year MPCs has been selected for UGRAD program



# Math Club Event



In celebration of Mathematician Srinivasa Ramanujan's Birthday  
(22nd December, 1907)  
The Mathematics Club of St Ann's College for Women  
invites you to participate in

## MATHEMAGIC

A MATH QUIZ EVENT

SHARPEN YOUR MINDS AND  
GET READY TO HAVE FUN!

16th DECEMBER 2022 | FRIDAY  
VENUE: ROOM NUMBER 47  
TIMINGS: 12:30 PM ONWARDS  
(TEAM OF 2)

### ROUNDS

Round 1  
Quick! Write it down!

Round 2  
Think Fast!  
& Buzz! Buzz!

Round 3  
or X?  
& Rapid Fire!

Prizes will be given to winners & e-certificates to the participants

# To Infinity and Beyond-Math Event

ST ANN'S COLLEGE FOR WOMEN  
AUTONOMOUS AND AFFILIATED TO GOSWAMI UNIVERSITY  
ACCOMMODATING THE DIVERSITY OF APPLICABLE SCIENCES  
ONE SV AND  
MADRASAPETA, MADRAS-600008

THE DEPARTMENT OF MATHEMATICS  
INVITES YOU TO PARTICIPATE IN

## TO INFINITY AND BEYOND

A FUN MATH GAMING EVENT

21st SEPTEMBER 2022 | WEDNESDAY  
VENUE: AV ROOM  
TIMINGS: 12:30 PM ONWARDS

### THE EVENTS

GUESS THE NUMBER  
DEDUCE A NUMBER FROM THE QUESTION  
(TERM OF 2)

CROSS-CROSS  
A MATH CROSSWORD PUZZLE  
(TERM OF 2)

Prizes will be given to winners & e-certificates to the participants



Dr. Nirmala Xavier, HOD  
invited talk @ Villa Marie  
College

# Puzzle of the week Activity

Date: 25.10.2022

**Department of Mathematics**  
PUZZLE OF THE WEEK - 6

A rectangle is divided horizontally into two equal parts. The upper part is further divided into 3 equal parts and the lower part is divided into four equal parts which fraction of the original rectangle is the shaded part?

Solution for the Puzzle of the week - 6 is 16/75 cm  
<https://forms.gle/NGGdBAQ9TUDVNXast6E7>

Write complete procedure of the solution along with your name, hall ticket number, year, section on the solution sheet and put it in the solution box kept in the department.

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Date: 17.10.2022

**Department of Mathematics**  
PUZZLE OF THE WEEK - 5

A measuring jar of internal diameter 10cm is partially filled with water. Four equal spherical balls of diameter 2cm each are dropped in it and they sink down in the water completely, the change in the level of water in the jar is \_\_\_\_\_.

Solution for the Puzzle of the week - 4 is 12.5 KG

Write complete procedure of the solution along with your name, hall

# 2022-23 Achievers



## Mrs. Bala Sowjanya- Elite Silver Medal in 3 NPTEL Courses

### Academic Presentations by Staff

- Dr. Santoshi Misra presented a paper titled “Significance of Scientific Research in Contemporary Times for Undergraduate Students” at 9th international MARDIN ARTUKLU SCIENTIFIC RESEARCHES CONFERENCE held on January 20-22, 2023/Mardin, Turkiye.
- Ms. Japamala Rani has presented a paper titled “**Optimality conditions and saddle point criteria for fractional interval-valued optimization problem with vanishing constraints using generalized convexity**” in an International Conference on Mathematical Sciences and Emerging Applications in Technology ICMSEAT-2022 during September 9th-11th 2022.

### ARP- Ann’s Funded Research Project

Dr. Santoshi Misra has been funded by St. Ann’s College for Women for her research proposal titled “Chaya Someswara Temple - An inexplicable and magnificent glory of Indian knowledge system” ARP with Rs. One lakh for the year 2023(20th Feb 2023).

