

# ST.MARY'S COLLEGE (AUTONOMOUS)

Re-accredited with 'A+' by NAAC (4<sup>th</sup> Cycle)

Thoothukudi- 628001, Tamil Nadu

PG & Research Department of Mathematics

NEWSLETTER

Academic year  
2018-2019

## EDITORIAL TEAM

- 1 .Dr. G. Priscilla Pacifica  
Assistant Professor of Mathematics  
(Coordinator)
2. Dr. P. Anbarasi Rodrigo  
Assistant Professor of Mathematics
3. Ms. C.Reena  
Assistant Professor of Mathematics
4. Ms. M. Kanaga  
Assistant Professor of Mathematics
5. Ms. A. Robina Tony  
Assistant Professor of Mathematics
6. Ms. A. Nilofer  
Assistant Professor of Mathematics
7. Ms. R. Maria Irudhaya Aspin Chitra  
Assistant Professor of Mathematics
8. Ms. K. Rajendra Suba  
Assistant Professor of Mathematics
9. Ms. H. Sujitha  
Assistant Professor of Mathematics
10. Ms. A. Ferdina  
Assistant Professor of Mathematics
11. Ms. V. Uma Maheswari  
Assistant Professor of Mathematics
12. Ms. A. Ancy  
Assistant Professor of Mathematics

## HoD's Message

**Dear Students and Faculty of the  
Department of Mathematics,**

It gives me immense pleasure to share the recent achievements and milestones of our department. This academic year has been a testament to the dedication, talent, and hard work displayed by our students and faculty.

Many of our staff members have upgraded their skills through advanced training programs, ensuring the highest quality of teaching and mentoring. Our students have participated in various mathematics contests at national and international levels, showcasing their analytical and problem-solving abilities.

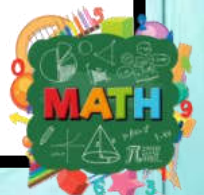
Students have also achieved remarkable results in certificate courses and other skill-based initiatives. Through outreach programs, our students have applied mathematical concepts to solve real-life problems, contributing positively to society. These accomplishments highlight the strength and commitment of our department toward academic excellence and overall growth.

My heartfelt congratulations to all who have contributed to these successes. Let us continue to work together to achieve new goals and set even higher standards in the future.

With Regards

Dr. G. Priscilla Pacifica

Co-ordinator & Assistant Professor of  
Mathematics



## Activities of the Mathematics Literary Association

The Business Meeting of the Mathematics Association for the academic year 2018-2019 was held on 03.07.2018. The meeting commenced with a prayer invoking the blessings of Almighty. Then the office bearers for the year 2018-2019 were elected under the guidance of the staff members of the Department of Mathematics (SSC), Ms. S.Ragha of II M.Sc Mathematics, Ms. T. Vivekha of III B.Sc Mathematics, Ms. M. Kiruthika of II B.Sc Mathematics were elected as President, Vice President and secretary respectively. The students were encouraged to participate enthusiastically in all the activities of the Association.

The Mathematics Association (SSC) was inaugurated by Sr. Gilda, Principal of Holy Cross Home Science College ,tuticorin on 13.7.2018. In order to implement the strategies discussed the department gathered together for its next association meeting.

On 09.08.2018, Dr.M.Marudai, Honorary Professor, School of Mathematical Sciences, Bharadhidasan University, Trichy gave a talk on, “The preparation for competitive exams” which included CSIR – NET/SET,UPSC,GATE and NBHM. Students of Department of Mathematics were benefited through this.

On 11<sup>th</sup> September 2018, a session was organised on the topic “Beauty of Mathematics” by Dr.J.Xavier Adaikalaraj, Assistant Professor, Department of Mathematics, Arulanandar College, Madurai. Nearly 100 students of Mathematics was benefited by this session.

On March 14<sup>th</sup> 2019, Dr.D.Radha, Assistant Professor of Mathematics, A.P.C. Mahalaxmi College for Women, Thoothukudi gave a very useful information on the topic “Theory of Near Rings”. Students of Department of Mathematics were the beneficiaries.

### GALLERY OF EVENTS



EXPERT TALK ON  
“BEAUTY OF  
MATHEMATICS”



## Mentor Mentee System

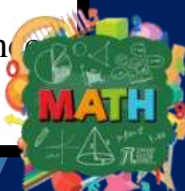
The system is a move towards Student Support and Progression. It supports to achieve holistic development of every student in the department. A teacher has a group of 10 – 13 students whose academic and other aspects of their progress are her concern. The teacher takes care to concentrate more on issues related to their psychological needs during periodical Tutor- Ward Meet each Friday from 2. 30 p.m. to 4.00 p.m. A record of academic results and bio-data of each of the students is maintained.

## Certificate Course

Tally 9 version Business Accounting Software was offered as Certificate Course by the Department of Mathematics (SSC) from 10 July 2018 to 13 March 2019 to the II year B.Sc. Maths SSC (Section A & B) students. Ms. K.M.Valarmathi and Ms. Marine Jocelyn were the Instructors and the course was held after the regular college hours from 2.00 pm to 4 pm. The students were made to appear for a written test at the end of the programme and certificates were issued with Grade levels according to their percentage of attendance.

Quantitative Aptitude and Numerical Ability was offered as Certificate Course by the Department of Mathematics (SSC) from 05 July 2018 – 01 April 2019 to the III year B.Sc. Maths SSC (Section A & B) students. Ms. Vijayalakshmi, the Instructors and the course was held after the regular college hours from 2.00 pm to 4 pm. The students were made to appear for a written test at the end of the programme and certificates were issued with Grade levels according to their percentage of attendance.

Semester	Dates
ODD	31.08.2018 07.09.2018 14.09.2018 28.09.2018 05.10.2018
EVEN	07.12.2018 14.12.2018 11.01.2019 18.01.2019 08.03.2019



# Board of Studies

The Board of Studies Meeting of the Department of Mathematics was conducted on 23.02.2019 at 10 a.m in the Guest House of St. Mary's College (Autonomous), Thoothukudi.

The subject experts of the board were Dr.S.Somasundaram Professor Department of Mathematics Manonmaniam Sundaranar University Tirunelveli 627 012,Dr. A.Lourdusamy Associate Professor Department of Mathematics St. Xavier's College(Autonomous) Palayamkottai, Dr.J.Xavier Adaikalaraj Associate Professor Department of Mathematics, Arul Anandar College (Autonomous), Karumathur, Madurai-625514, the university nominee was Dr.N. Soundararaj Associate Professor Department of Mathematics Sri.S.Ramasamy Naidu Memorial College Sattur, Virudhunagar (DT) 626203. The Syllabus was designed in the pattern of Outcome Based Education with Choice Based Credit System. The board acknowledged and approved the set pattern.

The Board of Studies Meet of the Department of Mathematics was held on 24.02.2018 at 10.00 a.m. in the Audio Visual Room. The members of the board discussed the following agenda. The subject experts of the board were Dr.A.Lourdusamy Associate Professor Department of Mathematics St. Xavier's College (Autonomous) Palayamkottai. Mrs.A. Sheela Roselin Assistant Professor Department of Mathematics Fatima College (Autonomous) Madurai, the university nominee was Dr.N. Soundararaj Associate Professor Department of Mathematics Sri.S.Ramasamy Naidu Memorial College Sattur, Virudhunagar (DT) 626203.The Syllabus was designed in the pattern of Outcome Based Education with Choice Based Credit System. The board acknowledged and approved the set pattern.



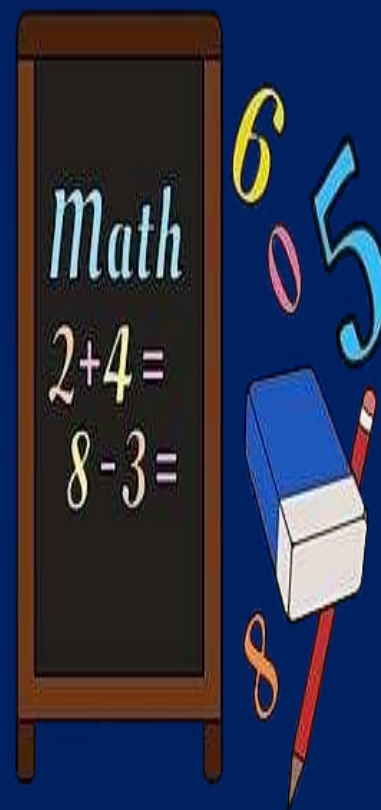
## PTA and Alumnae

On 11th August 2018 the PTA meeting for the Final year students, both UG and PG was held in the Auditorium. All the parents of the outgoing students attended the meeting enthusiastically. Dr. D. Rathi, Assistant Professor of Economics welcomed the gathering. The Principal, Rev. Dr. Sr. A.S.J. Lucia Rose delivered the presidential address. The Chief guest, Rev. Sr. Flora Mary, exhorted the parents to actively involve themselves in the mental and physical growth of the students. Rev. Sr. Peregrina Mary, Director of SSC pointed out the moral responsibility of the parents in moulding the personality of the students. Dr. L. Jacqueline Leo, Associate Professor of English proposed Vote of Thanks.

On 6th October 2018 the PTA meeting for the II year UG students was conducted in the College Auditorium at 9.30 A.M. The Chief Guest Dr. Flora Juanita, MDRD, Head, Department of Radiology, Government Medical College, Thoothukudi, addressed the parents on 'Parenting the college students'. She advised the parents to be modern in their approach and insisted them to be always positive and encouraging in handling their children.

# Research Activities - Faculty

Name	Publication-Journal	Conference	Seminar	Workshop
Ms.H.Sujitha		2		1
Dr.G.Priscilla Pacifica	4			
Dr.P.Anbarasi Rodrigo	11	1	1	1
Ms.C.Reena	5	4	1	
Ms.R.Maria Irudhaya Aspin Chitra	3	1		
Ms.K.Rajendran subha	5			
Ms.V.Uma Maheswari		2		
Ms.A.Robina tony	2	2		
Ms.A.Ancy			2	
Ms.A.Ferdina		2		1
Ms.Kanaga		2		
<b>Total</b>	30	16	4	3



## CDP

The Department of Mathematics (SSC) in collaboration with Head Post Office Thoothukudi conducted awareness programme on POSTAL SAVING SCHEMES in the adopted area Palayakayal on 29th September 2018, Saturday. On 8 December 2018, the students surveyed the local residents of Palayakayal. On 9 February 2019, we organized a computer literacy programme and spoken English class for the middle school students in the school campus of Palayakayal. On 2 February 2019, our students organized a rally to ban plastic and spread the awareness about the harmful effects of plastic.

The Department of Mathematics (SSC) visited Palayakayal on 29th Sep 2018 for collecting census. People of Palayakayal was benefited by this activity.

The CDP visit to Palayakayal was on 8th Dec 2018, the Department of Mathematics (SSC) organised an awareness program. The students created awareness on Post Office savings scheme. The students enthusiastically participated and spread the message. People of Palayakayal was benefited by this activity.

The team visited Palayakayal on 2nd Feb 2019, the Department of Mathematics (SSC) conducted a Survey. People of Palayakayal was benefited by this activity.

## EFFECTIVENESS OF COMMUNITY SERVICES



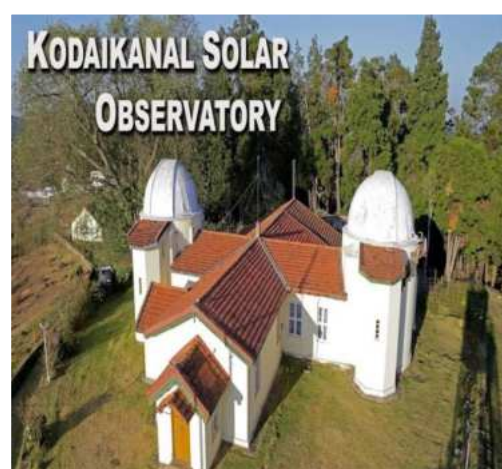
# Field Visit

On 1st March 2018, the students of III B.Sc Mathematics and II M.Sc Mathematics went for one day field visit to ISRO, Trivandrum to gather knowledge about the functioning of various satellites.

On 22nd March 2019, the students of III B.Sc Mathematics and II M.Sc Mathematics went for one day field visit to solar observatory, Kodaikanal, which provides the students a chance to learn about the intriguing world of astrophysics.

## Observations:

- ❖ The students were excited and curious as they arrived at ISRO's campus. The well-maintained facility and the display of rockets at the entrance immediately caught their attention. The visit began with a brief introduction about ISRO's history and its contributions to space research in India.
- ❖ A scientist or guide explained the importance of space exploration and ISRO's recent achievements, such as the Chandrayan and Mars Orbiter missions. The students were taken to a laboratory where they saw models of satellites and rockets.
- ❖ Discussions on how satellites help in weather forecasting, navigation, and disaster management were especially engaging. The visit inspired many students to think about careers in space research and engineering. A few expressed their excitement to contribute to India's space missions in the future.
- ❖ The students noted the historical architecture of the observatory, which stood as a testament to its long-standing contribution to solar research. A guide explained the history of the observatory, highlighting its establishment in 1899 and its pivotal role in studying the Sun. The students were shown various telescopes, including the Fraunhofer spectroheliograph.





## Students Activities

During the academic year 2018-2019, the students demonstrated exceptional performance across various co-curricular, extracurricular and sports competitions and events at different levels. Here's a detailed account of their achievements:

- ♣ **J. Harlin Jebaseeli**, from M.Phil Mathematics, participated in a National Webinar, Instructional School on Emerging Trends in Mathematics advanced on the title, "Functions on  $\alpha^*$  g Open sets in Topological Spaces" on 11.02.2019-12.02.2019 at St.Marys College (autonomous), Thoothukudi. She also took part in International Conference on Computing sciences on the title "On  $\alpha^*$  g Homomorphism in Topological spaces" on 16.11.2018-17.11.2018 at Loyola Research Institute of Mathematics and Computing Sciences, Chennai.
- ♣ **F. Monisha**, from M.Phil Mathematics, participated in a National Webinar, Instructional School on Emerging Trends in Mathematics advanced on the title, "Square difference Labeling for Some New Graphs" on 11.02.2019-12.02.2019 at St.Marys College (autonomous), Thoothukudi.
- ♣ **L. Santhana Mariammal**, from M.Phil Mathematics, participated in International Conference on Computing sciences on the title "Some Results on Universal Dominating Set" on 16.11.2018-17.11.2018 at Loyola Research Institute of Mathematics and Computing Sciences, Chennai.
- ♣ **P. Vijaya Lakshmi**, from M.Phil Mathematics, participated in International Conference on Recent Trends in Multi-disciplinary Research on the title "A Type New of Quasi Open and Quasi Closed Functions in Topological Spaces" on 20.12.2018 at A.P.C.Mahalaxmi College For Women, Thoothukudi. She also took part in a National Webinar, Instructional School on Emerging Trends in advanced Mathematics on the title "On semi  $\delta$  Homeomorphism in Topological Spaces" on 11.02.2019-12.02.2019 at St.Marys College (autonomous), Thoothukudi.



## PG Projects

A total of 25 post graduate students of II M.Sc Mathematics submitted the projects. The details are as follows:

Reg . No.	Name of the candidate	Project Title
17SPMT01	Ahamed Gifriya M	Generalized ab- closed sets
17SPMT02	Ajitha S	Product Cordial Labeling
17SPMT03	Amsavalli P	Derivations of Inclined Algebra
17SPMT04	Angel Josy A	Lucky Edge Labeling
17SPMT06	Anuf Sarumathi J	Radio Labeling
17SPMT07	Deena V	$\rho$ -closed sets
17SPMT08	Esther Jesy S	Divisor cordial Labeling
17SPMT09	Gayathri P	Distance Anti-Magic Labeling
17SPMT10	Ida Selva Kiruba J	Mean Labeling in Graphs
17SPMT11	Infant Biju P	Homo-Cordial Labeling
17SPMT12	Jenifer G	Pseudo Complete Coloring
17SPMT13	Joan Romaine S	RW sets in Topological Spaces
17SPMT14	Kayathiri Y	Manifields
17SPMT15	Mari Rajeswari M	Felicitous Labeling

17SPMT16	Maria Agnes Darathi G	Skolen Harmonic Mean Labeling
17SPMT18	Prabavathi M	$S_1$ -Near Ring
17SPMT19	Pragathi S	Domination in Graphs
17SPMT20	Princy A	Totally Magic Labeling
17SPMT21	Ragha S	Semi Open Sets
17SPMT22	Rishiba W	$\beta^*$ - Closed Sets
17SPMT23	Sakthi Madhana C	Fuzzy Graph Theory
17SPMT24	Sangeetha K	Normed Linear Space
17SPMT25	Shanmathi Nishouli B	Quotient Topology
17SPMT26	Shunmuga Priya M	$g^*$ s- closed sets in topological spaces
17SPMT27	Sivagami Surekka K	Broadcast in Graphs

### III UG and II PG Pass Percentage

<b>III.BSc Mathematics</b>	<b>92.5%</b>
<b>II.M.Sc Mathematics</b>	<b>100%</b>



# Higher Education

Reg.No	Name	Name and Place of the institution joined	Name of the program admitted
16SUMT01	J.Abinaya	M.Sc Mathematics	Annamalai university, Annamalai nagar, Chidambaram.
16SUMT03	Abirami.P	M.Sc Mathematics	V.O.Chidambaram college, Thoothukudi
16SUMT05	J.P.Anto Iswarya Mithuna	B.Ed	ST.Ignatius college education, Tirunelveli
16SUMT06	Anu Selva Radha.S	M.Sc Mathematics	V.O.Chidambaram college, Thoothukudi
16SUMT12	Essaki Dharani.M	M.Sc Mathematics	A.P.C Mahalaxmi college for women, Thoothukudi.
16SUMT14	Gunavarthini.R	M.Sc Mathematics	V.O.Chidambaram college, Thoothukudi
16SUMT15	Haripriya.G	MBA	C.S.I Institute of Technology
16SUMT22	Maheswari.B	M.A. Social work	ST.Xavier college(Autonomous), Tirunelveli
16SUMT26	M.Mounika	M.Sc Mathematics	Annamalai university, Annamalai nagar, Chidambaram.
16SUMT29	M.Murugalakshmi	M.Sc Mathematics	Annamalai university, Annamalai nagar, Chidambaram.
16SUMT30	G.Padmapriya	M.Sc Mathematics	St.Marys college, Thoothukudi
16SUMT31	G.Priyadarshini	M.Sc Mathematics	Pope's College (Autonomous) ,Sawyerpuram
16SUMT32	P.Priyatharshini	M.Sc Mathematics	St.Marys college, Thoothukudi
16SUMT38	Shenbagam.M	M.Sc Mathematics	V.O.Chidambaram college, Thoothukudi
16SUMT39	Snowlin.G.B	MBA	C.S.I Institute of Technology
16SUMT41	S.Sowmiya	M.Sc Mathematics	St.Marys college, Thoothukudi
16SUMT42	K.Subashini	M.Sc Mathematics	St.Marys college, Thoothukudi
16SUMT43	S.Subhalakshumi	M.Sc Mathematics	St.Marys college, Thoothukudi
16SUMT44	P.Subithra	M.Sc Mathematics	St.Marys college, Thoothukudi
16SUMT46	Swathi Lakshmi J	M.Sc Mathematics	Pope's College (Autonomous) ,Sawyerpuram
16SUMA10	Poonkani Kavitha	MCA	Kamaraj college (S.F)
16SUMA16	Viveka.T	CMA	The institute of cost Accounts of India