



ST. MARY'S COLLEGE (AUTONOMOUS)

(Re - accredited with 'A+' Grade by NAAC - 4th Cycle)

Thoothukudi - 628001, Tamil Nadu, India
(Affiliated to Manonmaniam Sundaranar University)

Department of Chemistry

Newsletter 2018-2019

Editorial Board

Dr. J. Martin Rathi (HOD)

Associate Professor

Dr. T. Linda Fernando

Associate Professor

Mrs. S. Rani Jeyamary

Assistant Professor

Dr. Irudaya Antonat Sophia

Assistant Professor

Dr. A. Lakshmi

Assistant Professor

Dr. B. Divya

Assistant Professor

Dr. A. Parveen Sulthana

Assistant Professor

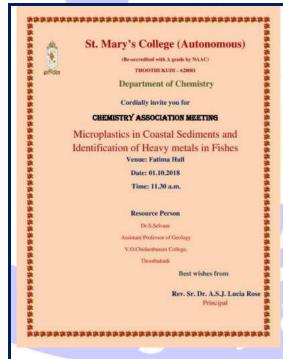
Dr. G. Amala Jothi Grace Assistant Professor

DEPARTMENT ACTIVITIES

ASSOCIATION MEETING

The Association meeting for the academic year 2018 – 2019 was held on 1st October 2018. Dr.S.Selvam, Assistant Professor of Geology, V.O.Chidambaram College, Thoothukudi has delivered a talk on the topic" **Microplastics in Coastal Sediments and Identification of Heavy Metals in Fishes".** The students acquired a clear knowledge on interaction of plastics with biological life. The disturbances of plastics to aquatic life and the distribution of trace metals in the muscle of fish were explained (**No. of Beneficiaries: 146**)

.







St. Mary's College (Autonomous)

(Accredited with 'A' Grade by NAAC)

Thoothukudi - 628001

Association Meeting

CERTIFICATE OF PARTICIPATION

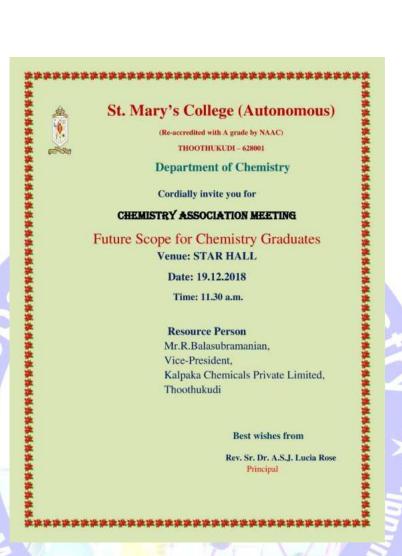
This is to certify that Ms. S. Binu Joselin, II B.Sc Chemistry of St. Mary's College (Autonomous), Thoothukudi has actively participated in the association meeting invite lecture on "Microplastics in Coastal Sediments and Identification of Heavy metals in Fishes" organized by the Department of Chemistry, St. Mary's College (Autonomous), Thoothukudi on 01.10.2018.

This computer generated e-certificate doesn't require any signature.

The second Chemistry association meeting was held on 19th December. Mr.R.Balasubramanian, Vice-President, Kalpaka Chemicals Private Limited, Thoothukudi presided over the meeting. He delivered a talk on "Future Scope for Chemistry Graduates". He explained briefly, the preparation of activated carbon in Kalpaka Chemicals with a video presentation. He also gave a clear knowledge about the internship programmes, various job opportunities for chemistry graduates and also how to face interviews. The students actively participated with keen interest.



Integrity and Synergy







St. Mary's College (Autonomous)

(Accredited with 'A' Grade by NAAC)

Thoothukudi – 628001

Association Meeting

CERTIFICATE OF PARTICIPATION

This is to certify that Ms. E. Subathra III B.Sc Chemistry of St. Mary's College (Autonomous), Thoothukudi has actively participated in the association meeting invite lecture on "Future Scope for Chemistry Graduates" organized by the Department of Chemistry, St. Mary's College (Autonomous), Thoothukudi on 19.12.2018.

This computer generated e-certificate doesn't require any signature.

Memorandum of understanding between Department of Chemistry, St.Mary's College
(Autonomous) and Kalpaka Chemicals Private Limited



This memorandum of understanding is signed between the Department of Chemistry, St.Mary's College (Autonomous), Thoothukudi, a well furnished instrumental Department of St.Mary's College (Autonomous), located in 104, North Beach Road, Thoothukudi and **Kalpaka Chemicals Private Limited** a reputed industry that works with a vision of "**ENRICHING NATURE**" having principal location at 2/141, Puthiyamputhur Road, Nainarpuram Post, Thoothukudi on 19th December 2018.



A workshop on "Empowering young Chemist" was organised on 5th March 2019. Mr.R.Balasubramanian, Vice-President, Kalpaka Chemicals Private Limited, Thoothukudi. Mr.V.Jeyasekaran, Head (quality control) Dhrangadhra Chemical Works, Thoothukudi and E.Rajesh Kumar, Assistant General Manager Technical services, SPIC Ltd., Thoothukudi were the resource persons (No. of Beneficiaries: 144).



f Chemis



Scollege (Autonomous). The

Integrity and Synergy





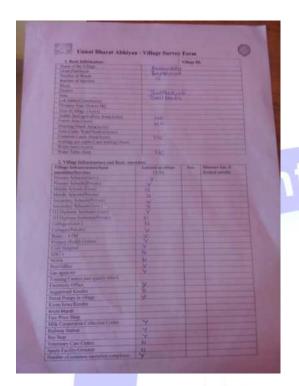


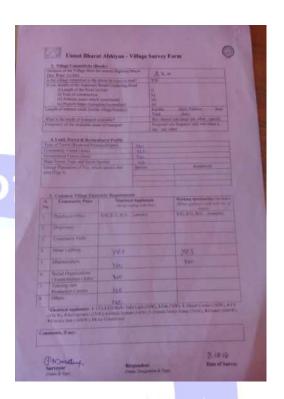


CDP

On 21 July 2018, the students of II B.Sc. chemistry with two of our staff visited our adopted area Anna colony. UBA house hold survey was taken by our students.

Integrity and Synergy





On 29 August 2018, the students of II B.Sc. chemistry with two of our staff visited our adopted area Anna colony. UBA house hold survey was taken by our students. Grammar classes were also taken by our students.



Integr

nergy

On 27 October 2018, the students of II B.Sc. chemistry with two of our staff visited our adopted area Anna colony. UBA house hold survey was taken by our students. Awareness program about plastics were conducted



On 8th December 2018, the students of II B.Sc. chemistry with two of our staff visited our adopted area Anna colony. UBA house hold survey was taken by our students. Computer classes were also taken for the children of that area. The students enjoyed the computer classes.



26th January 2019, the students of II B.Sc. chemistry with two of our staff visited our adopted area Anna colony. We invited the people for the demonstration of science experiments. Children of different ages enthusiastically attend the class and did small experiments based on static electricity, depression of freezing point, acid – bases neutralization reactions etc, with us.



On 2nd February 2019, the students of II B.Sc. chemistry with two of our staff visited our adopted area Anna colony. We invited the people for the demonstration of science experiments and grammar class. Children of different ages enthusiastically attend the class. Area cleaning was also done by our students.

Integ



ergy

On 16th March 2019, the students of II B.Sc. chemistry with two of our staff visited our adopted area Anna colony and insisted the people to cast their votes on 18th April 2019.



BOARD OF STUDIES MEETING

The Board of Studies Meeting of the Department of Chemistry was conducted on 16th February 2019 at 10.30 a.m in the department of Chemistry. Dr.K.Swarnalatha, Associate Professor, Department of Chemistry, Manonmaniam Sundaranar University, Tirunelveli as University Nominee. Dr. S. Joseph Selvaraj, Associate Professor, Department of Chemistry, St. Joseph's College (Autonomous), Tiruchirapalli as Subject Expert. Dr. R. Murugesan, Associate Professor, Department of Chemistry, TDMNS College, Kallikulam, Tirunelveli district as Subject Expert. Dr. J. Sidharthan, Associate Professor, Department of Chemistry, V.O.C College Thoothukudi as Subject Expert. Dr. Mrs. J. Rajula Jasmine Usha, Associate Professor, Department of Chemistry, Sarah Tucker College (Autonomous), Tirunelveli as Alumna. Mr.D.Kishore, Assistant Manager, Urea Production, SPIC, Thoothukudi as Industrial Expert.

PTA Meeting

The Parents Teachers Association conducted meetings regularly for all the parents and students of the department. The meetings were held on 11th August 2018, 6th October 2018 and 8th February 2019.

Certificate Course

St. Mary's College (Autonomous), Thoothukudi

(Reaccredited with A+ Grade by NAAC)

Certificate Course 2018-2019

Name of the Department : Chemistry

Title of the Course: Soil and Water Analysis

Offered to : II B.Sc Chemistry Course Code: 18CACH31

This course helps the students to analyse the parameters of soil and water for a clean environment.

Objective:

- To practice a clean and good environment.
- To impart knowledge about importance of minerals of soil and water
- . To create an awareness about the pollutants of soil and water

Outcomes:

- Students will learn to maintain clean environment by their own
- Students will gain knowledge of minerals required for humans
- Students become an analyst in water resource concern
- They can be employed as soil analyst

St.Mary's College (Autonomous) Thoothukudi

(Reaccredited with A+ Grade by NAAC)

Certificate Course 2018-2019

Name of the Department : Chemistry

Title of the Course: Nutritional Food Science

Offered to : HI B.Sc Chemistry Course Code: 18CACH51

This course helps the students to comprehend the diet plans and nutrition requirements to lead a healthy life.

Objective:

- To practice a proper balanced diet
- To impart knowledge about Nutrition and its importance
- To create an awareness about the use of adulterants in food products

Outcomes:

- Students will learn to prepare nutritional food by their own.
- Students will gain knowledge of calories required for healthy diet
- Students become an Entrepreneur in preparation of food products
- They can be employed as Food analyst

Seminars/ Conferences/Workshops attended by staff

Dr.T.Linda Fernando

Title of Workshop/ Seminar/ FDP/ Conferences	Туре	Paper Presented/ Participated	Title of the Paper	Organized By	Date
Fostering Transparency :Routing out Plagiarism A to Z	National Seminar	Participated		Research Forum St.Mary's College (Autonomous) Thoothukudi	20 th July ,2018

Dr.Irudaya Antonat Sophia

Title of Workshop/ Seminar/ FDP/ Conferences	Туре	Paper Presented/ Participated	Title of the Paper	Organized By	Date	
Hands on Training on Data Analytics using SPSS	Workshop	Participated		Research Forum St.Mary's College (Autonomous) Thoothukudi	24.08.2018	
Fostering Transparency: Routing out Plagiarism A to Z	National Seminar	Participated	onomous	Research Forum and Department of Library, St.Mary's College (Autonomous) Thoothukudi	20·07.2018	
Research Papers published by staff						

Research Papers published by staff

1. Kitherian Sahayaraj, Rajesh Sathiyamoorthy, J. Martin Rathi, Vivek Kumar, Green preparation of seaweed-based silver nano-liquid for cotton pathogenic fungi management IET Nanobiotechnology October 2018, DOI: 10.1049/iet-nbt.2018.5007 [scopus]

- **2. B.Divya**, D.Kanagavel, P.Karpagavinayagam and C.Vedhi, "Microwave synthesis, electrochemical studies and capacitance of benzalazine" International journal of research in advent technology, Vol.6, issue.9, 2018, pp 2414-2419.
- 3. Kalarani, Parthiban, **B. Divya** and Chandra Lekha "Comparative study of green synthesized silver nanoparticles using leaf and stem extract of *pauzolziabennettiana* and its antimicrobial activity" International journal of management, technology and engineering ISSN NO: 2249-7455, Volume. 8, IssueXII, 2018, pp 3013-3024.
- 4. Parthiban, Chandralekha, Kalarani, **Divya**, Synthesis and characterization of silver nanoparticles using seaweed *Sargassam tennerimum* and their antioxidant activity, Journal of emerging technologies and innovative research, ISSN NO:2349-5162, volume 6, issue 2, 2019, pp. 416 421

Student Activities

S.No	Students Name	Event	Venue	Date	Detail
1	G.Varathalakshmi	Rangloli Competition	Sri parasakthi college for women Courtallam	21.08.2018	First Position
2	G. Pasungkili	Rangloli Competition	Sri parasakthi college for women Courtallam	21.08.2018	First Position
3	S.Loga priya	Development programme-smart phone servicing	St.Mary's college (Autonomous), Thoothukudi	29.09.2018	Participated
4	R.Antony Felis	Essay Writing Ganthian thought & Ganthian philosophy	St.Mary's college (Autonomous), Thoothukudi	09.10.2018	First Position

Sports

S.No	Students Name	Department	Event	Venue	Date	Details
1	K. Kiruthika	Chemistry	Basket ball	SRM University, Chennai.	4.11.2018 – 8.11. 2018	Participated
2	Swetha	Chemistry	Badminton - single	Annual sports meet St.Mary's college (Autonomous), Thoothukudi	9. 2. 2019	First Position
3	Swetha and K. Kiruthika	Chemistry	Badminton - doubles	Annual sports meet St.Mary's college (Autonomous), Thoothukudi	9. 2. 2019	First Position
NCC Stollege (Autonomous), Thus						

		Name Of The	Venue	Rank
Name	Duration	Camp		
V.Viji	29.06.2018 to	BLC-CATC Cum	8(TN) Battalion	CDT
II B.Sc.,	08.07.2018	&TSC Training	NCC	
		Camp	Kumbakonam.	
		_		