



*'Without the burden of afflictions, it is impossible to reach the height of Grace.  
The gift of grace increases as the struggle increases'*

*-St Rose of Lima*



## *Our Foundress*

Servant of God, Mother Teresa of St. Rose of Lima (1858-1902)

St. Teresa's College is another word for transcendence and has achieved the state of pre-eminence and is the 'Cordon blue' in academics and co-curricular activities. This eminence is a result of a vision, the seeds of which was planted by Mother Teresa of St. Rose of Lima, when she started St. Teresa's School in 1887. She was known to be an educationalist and a social worker. Her vision went beyond her time, aiming for the formation of a holistic human, person with a sense and responsibility to the world.

## *Reminiscence of Indebtness...*



**Dr. Sajimol Augustine M.**

Dr. Sajimol Augustine's journey as the principal of St. Teresa's college is a clear tag of a proactive leader. She gifted us five glorious years of grandeurs and achievements. She has maintained as well as over extended the legacy which St. Teresa's College has earned through and continuing to perpetuity. The department of chemistry is extremely thankful for her sincere years of service in college.

## *About the College....*

The College was accredited by the NAAC at the Five Star Level in 1999 (9th October 1999), Re-accredited with A level in 2006 (21st May 2006) and A grade with a CGPA of 3.40 in 2012 (20th April 2012). The college got accredited with A++ grade in the fourth cycle of accreditation by NAAC with a CGPA of 3.57 which shows the remarkable progress the college has achieved since the last NAAC visit. This is a milestone in the journey of the college. The college also got 47<sup>th</sup> rank in the NIRF 2020 and it is the 4<sup>th</sup> highest rank in Kerala which really shows the Lord Almighty has bestowed our college with numerous recognitions.

St. Teresa's College, was established on 15<sup>th</sup> June in the year 1925, as the first Women's College of the erstwhile Cochin State and the second in the whole of Kerala by the Carmelite Sisters of St. Teresa. The College is committed to enrich the lives of our students by improving them and has always provided a holistic education and community life. Women's education is a crucial factor that contributes to nation-building, and for the past ninety five years we have been educating young women from different strata's of our society.



**Rev. Sr. Dr. Vinitha  
(Director)**



## About The Department:

Department of Chemistry and Centre for Research, established in the year 1966 under the charismatic leadership of late Dr. Sr. Bertille CSST and nurtured by dedicated faculty members, has grown into an outstanding research department. Highly qualified, experienced and committed teaching faculty serves the department to hoist the budding scientists/academicians. It is their meticulous teaching that has given excellent results over the years. The faculties have research experience in reputed institutes like University of Minnesota, Georgia Tech university USA, CUSAT, NISER and IIIST-CSIR. Two of the faculty members are research guides. The department has well equipped labs and ICT enabled classrooms. Ever since the College has become autonomous in 2014, the department has made great strides by revising and updating the UG curriculum in the year 2014, 2018 and PG curriculum in the year 2015 and 2020. Students are given academic and non-academic orientation and regular value education. Above 85% of our students pursue higher studies. The students have the opportunity to pursue their project work in reputed institutes. The confidence they build up during their academic pursuit in the department helps them in building up a fruitful career ahead. The department is also supported by DST-FIST and DBT-STAR programmes.

### COURSE LIST:

- Research Centre
- MSc Chemistry (Pure Chemistry, aided) with advanced inorganic chemistry, advanced organic chemistry and Physical chemistry as electives.
- BSc Chemistry (Core) with mathematics and physics as complementary subjects
- BSc complementary course for BSc Botany, Zoology, and Family and Community Science

## Message from HOD



DR. USHAMANI M.

The Department of Chemistry has completed fifty four glorious years in the pursuit of excellence in Chemistry. Established under the leadership of late Dr.(Sr).Bertille CSST in 1966, and nurtured by outstanding faculty members, the department has always remained tall in the academic scenario of the college. The department has molded young girls of many generations into outstanding scientists and dedicated academicians as well as scores of women who have served the humanity in multifaceted ways. The department was emancipated from its graduate level to postgraduate level with the commencement of M.Sc. course in 2013 and then to Research department in the year 2018. We will be taking bigger strides in the field of chemistry and as well in interdisciplinary science.

It gives me immense pleasure to lead the Department of Chemistry and Centre for Research. The primary focus of the department is to empower our students with overall development. For this we have provided ample opportunities to our students through curricular, extracurricular and co-curricular activities. We, the team Chemistry are working with the following objectives:

- ♦ To inculcate the students with multi-dimensional skills
- ♦ To focus on outcome-based education by innovative pedagogy and industry-academia interaction.
- ♦ Individual attention of students is focused through a mentor-mentee programme, where students are emphasized for good academics, placement and co-curricular activities.
- ♦ The faculty members are encouraged to publish text books and research papers in reputed journals.
- ♦ The department preserves its achievements of staff and students and publish all its activities in the annual the news letter "Rasathantra".

*I take this opportunity to congratulate and appreciate the editor Dr. Annu Raju for bringing out this issue of our newsletter "Rasathantra 2020"*

## From the Editor's Desk

*"Words mean more than what is set down on paper.*

*It takes a human voice to infuse them with deeper meaning"- Maya Angelou*



DR. ANNU RAJU

It's once more time to publish "Rasathantra"-the annual newsletter of the Department of Chemistry and Centre for Research. Our departmental newsletter is something that we all enthusiastically and eagerly await. It is a vibrant reflection of the life at Department of Chemistry. It is the litmus test of the progress that have pervaded the Department of chemistry and an evidence of how successful the processes have actually been. This endeavour is nothing but the panorama of the activities and achievements of the department during the academic year.

Be it Workshops on career prospects, Endowment lecture series or Outreach programmes, it was all enkindling and entertaining.

Within these pages, there bound to be a plethora of the expertise and triumph of the sculptures and the sculptors of the department.





*"Wings of triumph across the world" – An International Journal of Chemical Science"*

## **Teresian International Journal of Chemical Sciences (TIJCS)**

**DR. SARITHA CHANDRAN A. (Editor)**

Teresian International Journal of Chemical Sciences (TIJCS) is an innovative venture of the Department of Chemistry and Centre for Research, St. Teresa's College (Autonomous). This is a double blind peer-reviewed quarterly Journal and the mission is to submit to the readers, fresh fruit of academic studies leading to novel thoughts and current innovative research. The Journal caters to the needs of Science students with special reference to Chemistry researchers for articles that demonstrate clear and bold thinking; fresh and useful ideas, accessible and jargon-free expression and unambiguous authority.

### **New Initiative**

## **BRIDGE COURSE ON "THEORY AND PROBLEM SOLVING IN SPECTROSCOPY"**

**Date: 4<sup>th</sup> January, 2020**



### **RESOURCE PERSONS:**

Dr. Mahesh Hariharan, Dr. Reji Varghese,  
Dr. Vinesh Vijayan (IISER-Trivandrum),  
Dr. A. Maria Starwin Associate professor, Christian College, Kattakada, Trivandrum

As a part of intensifying its glory, the Department of Chemistry started its first Bridge course on January 4<sup>th</sup> 2020. Dr. Elizabeth Kuruvilla and Dr. Annu Raju were the coordinators of the Bridge course. The 25 hours course was held on Saturdays and was organized for the first year PG students in chemistry. 72 students from different colleges successfully completed the course. Eminent scientists, Dr. Mahesh Hariharan, Dr. Reji Varghese, Dr. Vinesh Vijayan from IISER-Trivandrum were resource persons. The course also included an orientation for UGC-CSIR-NET examinations by Dr. A. Maria Starwin and a visit to the instrumentation facility at STIC-CUSAT. The programme added another stone of pride to the ever proud department.



### **DEPARTMENT ACTIVITIES 2019-2020**

## **INAUGURATION OF THE CHEMISTRY ASSOCIATION**

**21<sup>st</sup> June, 2019**

*'Life is chemistry; Dilute your sorrows, Evaporate your worries, Filter your mistake & Boil your ego-you will get the Crystal of Happiness'- Rohitpaul*



### **GUEST OF HONOUR :**

Dr. Teena Anne Joy, MBBS, MS, Gynaecologist, Aster Medicity, Ernakulam.

The inauguration of the chemistry association was held on 21.06.19. Dr. Teena Anne Joy presented a lecture on "CONCERNS OF ADOLSCENTS" which was followed by the presentation of 2018-2019 association report by the previous year's association secretary Ms. Anusha John. Badge distribution and oath taking of newly elected members of the Chemistry association took place. Ms. Aiswarya P.U. of III DC was elected as chemistry association secretary. Ms. Reshma Augustine (II PG), Ms. Sreelakshmi Ramesan ( I PG ), Ms. Swarna S. Chonapally ( III DC ), Ms. Liyana Nazrin ( II DC ) and Ms. Parvathy Mohan ( I DC ) were elected as class representatives. Dr. Annu Raju was appointed as the staff advisor of Chemistry association for the new academic year. The department also felicitated the star performers from both UG and PG batches. Miss Dhanu Teresa, an alumna of the department who qualified CSIR JRF-NET was honored during the course of the meeting. The fresher's day was conducted in the latter part of the day to welcome the first year students of both UG and PG. The senior students as well as faculties put up delightful performances. Miss Parvathy Mohan of 1<sup>st</sup> DC and Miss Sreelakshmi Rameshan of 1<sup>st</sup> PG were selected as Miss Freshers. The programmes were thoroughly enjoyed by everyone present.

*'Let's nurture the nature so that we can have a better future'*

## GREEN AND SAFE APPROACH TO MICROSCALE VOLUMETRIC ANALYSIS CERTIFICATE CLASS

29<sup>th</sup> June, 2019



### RESOURCE PERSONS:

Dr. Jude Martin Mendez, Associate Prof., Dept. of Chemistry, St. Albert's College, Ernakulam  
Dr. C. N. Manoj, Managing trustee, Pelican Foundation, Cherthala, Alapuzha  
Dr. Elizabeth Kuruvilla, Assistant Prof., Dept. of Chemistry, St. Teresa's College, Ernakulam

The Department conducted a three day certificate course on 'Green and safe approach to microscale volumetric analysis'. The program aimed at providing a conclusive idea and hands on training on lab safety and microscale volumetric analysis to the I<sup>st</sup> B Sc. Students (both core and complementary). The inauguration was held at Gym Plaza. There were three sessions- namely First aid and safety measures in laboratory, Safe disposal of chemical waste, An introduction to microscale volumetric analysis. Lab manual on microscale analysis authored by the faculty members of the department Dr. Saritha Chandran A. and Miss. Sicily Rilu Joseph was released by Dr. Geetha Andrews. This was followed by the release of the newsletter of the department edited by Dr. Saritha Chandran A., 'RASATHANTHRA-2019' by Dr. Jude Martin Mendez. Hands on training on microscale analysis were given to the students on 1<sup>st</sup> and 2<sup>nd</sup> of July, 2019.



*'An investment in knowledge always pays the best interest' - Ben Franklin*

## INTERACTIVE WORKSHOP ON CAREER PROSPECTS IN INDUSTRY

29<sup>th</sup> July, 2019



### RESOURCE PERSONS:

Smt. Bindu Ajit, Programme Director, Biocon Academy  
Mr. S.S. Easwaran, Senior Academic Dean, Biocon Academy

The department of Chemistry conducted an interactive workshop on Career Prospects in Industry for PG students of Chemistry, Biochemistry and Pharmacy. Dr. Saritha Chandran A., was the co-ordinator of the programme and Miss Sahala Nayeem the student co-ordinator. Mr. S. S. Easwaran, the

Dean and Smt. Bindu Ajit briefed about the programmes offered in the academy with an informative presentation. The goal of the workshop was to expose students to the job market and the new and exciting upcoming careers that they can choose. 117 students from various colleges like Morning Home Star College, Angamaly, S B College, Changananssery, St. Teresa's College, Ernakulam attended the programme. There was also an interactive session to the end.



*'Loved ones never depart away, they are with us everyday as a pillar of support'*

## Dr.(Sr.) BERTILLE ENDOWMENT LECTURE SERIES, 13<sup>th</sup> September, 2019

### RESOURCE PERSONS:

Mr. Jerly K.J., Assistant Professor, Department of Chemistry, The Cochin College, Ernakulam.

Dr. (Sr.) Bertille was the founder and first HoD of the Department of Chemistry, St. Teresa's College. The department was established in the year 1966 under the very enthusiastic and charismatic leadership of Dr. (Sr.) Bertille.

The Department organizes the lecture series in the loving memories of Dr.(Sr.) Bertille. Ms. Sicily Rilu Joseph was the co-ordinator of the lecture series and Aiswarya P.U. was the student co-ordinator. Mr. Jerly K.J presented a lecture on the topic "Fundamentals of Spectroscopy". He gave a detailed introduction on the topic and also explained about the types of spectroscopy. Such series are conducted by the department every year in order to create an enthusiasm towards learning the subject and get a deeper understanding on the subject.





*'A strong woman looks a challenge in the eye and gives it a wink' - Gina Carey*

## **WOMEN ACHIEVERS IN SCIENCE - SERIES III**

**4<sup>th</sup> October, 2019**



### **GUEST OF HONOUR:**

Dr. A. Seema, Scientist, Centre of Materials for Electronics Technology [C-MET]

The recipient of "Nari Shakti Puruskar" which is the highest Civilian honour for Women in India.

The programme "Women Achievers in Science" is conducted every year by the department to honour women with great achievements in our society thus to motivate the young minds in the field of science and to undertake research as a career.

Dr. Annu Raju, was the co-ordinator of the programme and

Miss Nithya Jude, the student co-ordinator. Dr. A. Seema gave a detailed presentation on the research work undertaken at her place of work and also shared her life experiences. An interactive session was conducted between the resource person and the students thereafter.



*'Somewhere something incredible is waiting to be known' - Carl Sagan*

## **WORLD SPACE WEEK CELEBRATION-2019**

**Outreach Program by VSSC, ISRO and LPSC, 11<sup>th</sup> October, 2019**



### **RESOURCE PERSON:**

Rajagopal Ganesan, Scientist - Ammonium Perchlorate Experimental Plant (APEP), VSSC

In connection with World Space Week – 2019 and Birth Centenary (1919-2019) celebration of VSSC, ISRO and LPSC, Thiruvananthapuram in association with Department of Chemistry and Centre for Research, St. Teresa's College (Autonomous), Ernakulam conducted an Outreach Program titled "Lecture at Colleges". The program initiative was to ignite interest in students on space science and to add awareness to their future career goals. Dr. Annu Raju, the Program

Coordinator delivered the welcome address. Through the splendid lecture given by Rajagopal Ganesh concepts explained reached the listeners simply well. He talked on space, space vehicles and its applications, missions of ISRO and VSSC, the different job opportunities in various fields in ISRO etc. The talk was followed by interesting interactive sections. As a token of gratitude a memento was given to the guest of honour by Head of the Department, Dr. Ushamani M., Ms. Sahala Nayeem A., Student coordinator, delivered the vote of thanks.



*'Creativity is a wild mind and disciplined eye' - Dorothy Parker*

## **TERESIAN SCIENCE EXHIBITION**

**18<sup>th</sup> & 19<sup>th</sup> October, 2019**



### **GUEST OF HONOUR:**

Prof. P. S. Sobhen, Retired Professor, Department of Physics, Maharajas College

A two day science exhibition was organized by the Chemistry, Physics, Botany, Zoology and Home science departments of the College, on October 18<sup>th</sup> and 19<sup>th</sup> at the Science Block. The exhibition was inaugurated by Prof. P. S. Sobhen. Sr. Dr. Vinitha presided over the function. Dr. Jameson Joseph, HOD, department of Botany, St. Albert's College and Dr. Sajimol Augustine, Principal, St. Teresa's College offered felicitations. The spectacular range

of Teresian creativity was exhibited. Students from St. Teresa's Higher Secondary School, Willington Island Govt. High School, St. Antony's Higher Secondary School and Govt. Girls Higher Secondary School flooded to witness different experimental and still model demonstrations. The exhibition aimed to instill scientific temper in students under the DBT-STAR College Scheme.

*'Science is the poetry of reality' - Richard Dawkins*

## NATIONAL SCIENCE DAY -2020, UG PROJECT PRESENTATION COMPETITION 26<sup>th</sup> February, 2020



### GUEST OF HONOUR:

DR. A. Ananthapadmanabhan, Retired Professor, Dept. of chemistry, Maharaja's College

As part of National Science Day celebrations 2020 the Department of Chemistry and Center of Research organized a UG project presentation competition in Chemical and Biological Science on February 26, 2020. Team of students from the Science departments of the college participated in the competition which was judged by Dr. A. Ananthapadmanabhan. A group of three members constituted each team and eleven teams participated in the competition.

Cash prizes and certificates were awarded to the winners of project presentation competition. Participant certificates were presented to all the participants.

**Following students won the prizes:** **I<sup>st</sup> Prize** – Aswathy Prakash, Veronica Antony, Anjali Yadav, III DC Zoology. Project title “Study on the settlement behavior of *Perna indica*”. **II<sup>nd</sup> Prize** – Devika K., Prathibha S. Prabhu, Shanthi Jestin, III DC Chemistry. Project title “Analysis of nanosized jackfruit seed powder for synthesis of bioplastic and enhancement of shelf life using silver nanoparticles”. **III<sup>rd</sup> Prize** – Nithya Jude, Swarna S. Chonappally, Treasa Diya, III DC Chemistry. Project title “Synthesis of grapheme quantum dots –A green chemical approach”.

*'No distance of place or lapse of time can lessen the friendship of those' - Robert Southey*



## ALUMNI MEET 'THIRIKE' 25<sup>th</sup> January, 2020



'THIRIKKE' - the alumni meet that was conducted by the department was a grand success. Generations of students, from the first to the latest pass outs were brought together by the love for the place they considered home. It was a celebration of memories, moments and of the lives that they had built for themselves. The alumni meet was also a moment of great pride for the department as many of its students came back as seismologist, scientists, professor, who had made a mark in the world.

The vibrant enthusiastic ex-teresians joined the event. The old shining stars ignited the young souls with their memories of fun, glory and togetherness. Retired teachers graced the meet with their presence. The event was made complete with power packed performances and fun activities. The air was filled with the ever thrilling teresian vibe of chemist saga. It was a moment of re-living experiences and laughing once again on the stories that the department walls spoke of in silence.



*"True alchemists do not change lead into gold, they change world into words"*

### BOOKS AND LAB MANUALS PUBLISHED BY FACULTY

*Hats off to the authors of the Department.....*



The department of Chemistry has always been a platform for the ingenious teachers to disseminate their vast knowledge on the subject. The books they published on Engineering Chemistry, Chemistry as a complementary, lab manuals and what not, are nothing but the testimonials of their expertise in the field. In fact, this is the crowning moment for us to be a part of the department whose teachers have put their fingers in every pie and published books of international recognition as well. It's indeed a great honour for us to extend our appreciation to Dr. Saritha Chandran A., for her lion's share to the same.

### Gallery

*Reminiscing the NACC visit.....*



*Treesa Diya III DE Chemistry*





## EXTENTION ACTIVITIES

### TERESIAN RURAL OUTREACH PROGRAMME (TROP 2019-2020)

#### OBJECTIVES:

- ❖ To Collaborate with Kunnukara Grama-Panchayath for the Clean Kunnukara Venture and to create awareness to concerned authorities and locals of Kunnukara Panchayath about the cleanliness drive
- ❖ To give training and awareness class to students volunteers, teacher coordinators and Kudumbha shree members in association with Haritha Kerala mission and Shuchithva mission.
- ❖ To implement the clean Kunnukara mission by proper waste disposal class for the residence of Panchayat
- ❖ To conduct UBA house hold survey at Kunnukara Grama-panchayath  
As a green initiative :-
- ❖ Cloth Bag Training Programme were given to different ward residence for a plastic free panchayath .
- ❖ Initiatives were also taken to plant saplings in the panchayat premises.

### NAVADARSAN 2019 – 2020

THE JUNIOR SCIENTIST program pioneered by Navadarsan started in the year 2015 with the objective of making science learning more meaningful and interesting. Students of class 8, 9 and 10 from different parts of the district are selected via written exam and personal interview. Our Department is collaborating with Navadarshan in this laudable endeavour. Efforts are made to include activities which are focused on different areas and concepts given in NCERT textbook of science class. It is envisaged that after the performance of these activities, students will be able to understand the concepts better which will ultimately motivate them to become junior scientist and there by lead them into research field. Students come to department and they are given detailed explanation of experiment and the theory behind it.

They are given hands on training in Labs with the guidance of faculty in charge- Ms. Sicily Joseph and Dr. Anu George. They are also guided by a team of student mentors selected from department.

*Teachers of our department are also actively involved in creating e-learning resources.*

### E-LEARNING RESOURCES

*Glimpses of short learning objective videos created by our teachers*





## A BUNCH OF AMATEURS AT @ IISER : NPTEL WORKSHOP

Six students (Aiswarya P U, Jinju John, Krishnendhu L., Arya Nair, Prathiba S Prabhu and Swarna S. Chonappally) of the department of Chemistry, St. Teresa's College, Ernakulam participated and successfully completed the Advanced Organic chemistry workshop conducted by NPTEL at Indian Institute of Science Education and Research, Pune in the month of July 2019. It was a workshop with lot of experiences and they dealt with many new organic reactions and lab equipments. It was one of the best opportunities that the students got. Their experiences inspired other students too.



## "MEMORIES ON THE WHEELS" OUR FINAL YEAR TRIP

The Goan trip was organized for the third years on 23<sup>rd</sup> of November. The students were accompanied by two of the faculty members Dr. Annu Raju, Ms. Sicily Rilu Joseph and Lab assistant Mr. Benny K.D. They visited numerous destinations like Murudeshwar, Ohm Beach, Dandeli and Goa. The students were able to experience the preserved cultural heritage of the locality as well as enjoy the breathtaking views at its best. The trip was indeed a memorable one for the whole team.

## BEST PRACTICES OF THE DEPARTMENT



green  
initiatives  
**Dr.Sr.Bertille Memorial  
Fabrication Facility**

THE CENTRE CAN DESIGN, MODIFY, CONSTRUCT AND REPAIR VARIOUS SCIENTIFIC GLASS APPARATUS BY GLASS BLOWING TECHNIQUE FROM BROKEN GLASS WARES AND DISPOSED TUBE LIGHTS.

MR. MUNISWAMY, WHO IS RETIRED FROM GANDHIGRAM RURAL UNIVERSITY, TAMIL NADU IS THE PERSON IN CHARGE OF THIS FACILITY.



USED TUBE LIGHT



GLASS BLOWING



PRODUCTS MADE FROM USED TUBE

### MICROSCALE VOLUMETRIC ANALYSIS



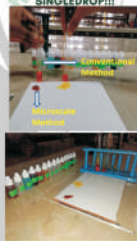
• Introduced for first year core and complimentary course students

• Reduction of about 75% in use of Chemicals.

• Less use of water.

### MICROSCALE ORGANIC ANALYSIS

FROM MILLILITRES TO A SINGLE DROPS!!



• Introduced for second year core and complimentary course students.

• Reduction of about 80% in use of Chemicals.

• Less use of water and LPG.

## INITIATIVES TOWARDS COVID-19 MITIGATION

Department of Chemistry and Centre for Research of St. Teresa's college took initiative to make sanitizer in lab. Teachers, Research scholars and students were part of this strive for the sanitizer preparation. It was prepared according to the procedure of World Health Organization (WHO).



To mark our social commitment and responsibility 5 litres of hand sanitizer was donated to the officials of Central Police Station, Ernakulam. 2 litres were given free of charge to CBI office, Ernakulam. The department also donated 2.5 litres of hand sanitizer to Malayala Manorama office, Kochi. The hand sanitizers were donated to all the academic departments, Controller of Examinations office, library and the administrative office of the College.





**GUEST OF HONOUR:**

Dr. Bibin Jose MBBS, MD  
(Chest), DIP.DIABETES(BOSTON),  
(FCCP (U.S)), Dept. of Pulmonology,  
Mary Queens Mission Hospital,  
Kanjirapally and  
Carmel Medical Centre, Pala.



**GUEST OF HONOUR:**

Dr. T. P. D. Rajan  
Principal Scientist, MSTD,  
CSIR-NIIST, Trivandrum.



**GUEST OF HONOUR:**

Dr. Anu George  
Assistant Professor,  
Dept. of Chemistry,  
Bharata Matha College,  
Thrikkakara.



**GUEST OF HONOUR:**

Dr. Jatish Kumar  
Assistant Professor,  
Dept. of Chemistry,  
Indian Institute of Science  
Education & Research  
(IISER) Tirupati.



**GUEST OF HONOUR:**

Dr. Ani Deepthi  
Assistant Professor,  
Dept. of Chemistry,  
University of Kerala

**WEBINAR SERIES 1**

11th MAY 2020

*Advancing knowledge to a new level in the time of pandemic.....*  
**"EMPHASIZING HEALTH EDUCATION ON COVID -19"**

"THE DEPARTMENT OF CHEMISTRY AND CENTRE FOR RESEARCH, ST.TERESA'S COLLEGE" organized a webinar based on "EMPHASIZING HEALTH EDUCATION ON COVID-19" which was presented by the guest. The speaker mentioned about the harmful effects of COVID-19, mutation of the virus and crucial precautions which are essential to stop the spread. He addressed the queries of the many students which was requisite during this time of pandemic. Various intercollegiate students and people from different states in India also participated in this interactive session.

**WEBINAR SERIES 2**

21st MAY 2020

**"SMART MATERIALS AND COATING"**

"THE DEPARTMENT OF CHEMISTRY AND CENTRE FOR RESEARCH, ST.TERESA'S COLLEGE" organized a webinar based on the topic "SMART MATERIALS AND COATING" which was presented by the guest. The speaker elucidated on different types of materials which are currently used in paints and coating industries and on smart ideas to prevent corrosion. He cleared the doubts posed by the students. Participants who attended the webinar were provided with e-certificates.

**WEBINAR SERIES 3**

28th MAY 2020

**"ORIENTATION FOR CSIR-UGC-NET EXAMINATION  
IN PHYSICAL AND INORGANIC CHEMISTRY"**

"THE DEPARTMENT OF CHEMISTRY AND CENTRE FOR RESEARCH, ST.TERESA'S COLLEGE" organized a webinar based on the topic "ORIENTATION FOR CSIR-UGC-NET EXAMINATION IN PHYSICAL AND INORGANIC CHEMISTRY" which was presented by the guest. The Session was conducted for the PG students aiming for the CSIR-UGC-NET exam. This included tips for students to approach these exams and several trial examples of the type of questions which are possible to come. PG students from other colleges also attended this interactive session.

**WEBINAR SERIES 4**

30th MAY 2020

**"PLENTY OF ROOM AT THE BOTTOM: NANOWORLD AND RECENT ADVANCES"**

"THE DEPARTMENT OF CHEMISTRY AND CENTRE FOR RESEARCH, ST.TERESA'S COLLEGE" organized a webinar based on the topic "PLENTY OF ROOM AT THE BOTTOM: NANOWORLD AND RECENT ADVANCES" which was presented by the resource person. The session was a detailed explanation of use of nanomaterials. The field of Nanochemistry and its application in the current scenario. This national webinar included participants outside Kerala also. Participants who attended the webinar were provided with e-certificates.

**WEBINAR SERIES 5**

30th MAY 2020

**"DBT STAR WEBINAR-FIGHT AGAINST COVID-19:  
THE POWER OF SCIENTIFIC KNOWLEDGE"**

"THE DEPARTMENT OF CHEMISTRY AND CENTRE FOR RESEARCH, ST.TERESA'S COLLEGE" organized a webinar based on the topic 'FIGHT AGAINST COVID-19: THE POWER OF SCIENTIFIC KNOWLEDGE' which was presented by the speaker. The web event was mainly organized for higher secondary students from classes 8th to 12th. The speaker explained effectively the role of Chemistry as a tool to fight the pandemic. Students across different schools enthusiastically participated in this webinar. Participants who attended the webinar were provided with e-certificates.



## Faculty Achievements

Certificate of recognition,  
St. Teresa's College



**Dr. Saritha Chandran A.**



**Dr. Ushamani M.**

Outstanding Teacher Achiever,  
St. Teresa's College



**Dr. Jaya T. Varkey**

Sr. Mercile Best Paper Award,  
ALACHE Best Innovative Faculty,  
Award-(National Award) &  
Certificate of Excellence in Editorial  
Board by International Journal of  
Pharmaceutical Chemistry and Analysis



**Dr. Elizabeth Kuruvilla**

Outstanding NSS Program  
Officer of the month  
June - July 2019  
by MG University



**Dr. Divya S. Nair**

National Level Patent on  
her work - "Process for  
detoxification of Organic  
pollutants by went  
proxide oxidation  
using Chromium  
Nanoferrite catalyst"

## Students Achievements

### SECURED JNB FOUNDATION SCHOLARSHIP 2020



**AADITHYA SALBI**



**SRUTHI K. M.**

Students who completed the iGOT training by  
Government of India on 'Basics of COVID-19'



**Andriya Jeejan**  
I B.Sc Chemistry



**Anjana E. A**  
I B.Sc Chemistry



**Lidiya Elizabeth Toji**  
I B.Sc Chemistry



**Mittu Thomas**  
I B.Sc Chemistry



**Niveditha Ann Mathew**  
I B.Sc. Chemistry



**Aleena Mary Dsouza**  
I B.Sc Chemistry



**Rajeswari S. Raj**  
I B.Sc Chemistry

### NPTEL COURSE



Betsy P R did NPTEL course on  
Wildlife Conservation and passed  
with Silver medal and 76%

### INSPIRE SCHOLARSHIP

Jinju John was awarded the  
Inspire scholarship. She was the UG  
Batch Topper of the 2017-2020  
batch of St. Teresa's Collage



### DR. (SR.) BERTILLE MEMORIAL PRIZE



Shilpa Mohanan achieved  
Dr. (Sr.) Bertille Memorial Prize  
for Outstanding student in  
IInd PG Chemistry.

### PRIZE WINNERS



**Binha Rose** -  
MG University Youth  
festival - Eastern  
group song - 1st prize



**Nayana John** -  
MG University Youth  
festival Ashantham 2020  
group Dance - 2nd prize



**Swarna S Chonappally**

- 'Shikar' - SCMS - 1st prize
- Dignito - De paul institute of science and technology Angamaly - 1st prize.
- Ecofiesta - St. Thomas Pala - 1st prize.
- Resonance 2.20 - Naipunya institute of management and IT - 1st prize
- Meshuggah - St. Paul's Kalamassey - 1st prize
- Macfieta - Mar Athanasios Thiruvalla - 2nd prize
- Chrysalis - BMC Thrikakkara - 1st prize Raagam 2020 choreonite thematic - (national fest.) NIT Calicut - 1st prize

### LOVE FOR THE GAME



**SMRITI P. KRISHNAN**

- Fery '20 part of Ragam, Intercollegiate fest, NIT Calicut, Secured Second position
- Dr. Sreena Augustine Memorial Intercollegiate Basketball Tournament, Bharata Matha College, Thrikakkara, Position secured: First
- Mangalam 3x3 Basketball Tournament, Mangalam College of Engineering, Ettumanoor, Position secured: Second
- Mangalam 3x3 Basketball Tournament, Mangalam College of Engineering, Ettumanoor, Position secured: Second
- Queen of the Court (Basketball showover), associated with NAAELAM 2020, National University of Advanced Legal Studies, Kochi, Position secured: First



**AISHWARYA RAMMOHAN**

- Fery '20 part of Ragam Intercollegiate fest, NIT Calicut, Secured Second position.
- Basketball Tournament, BMC Thrikakkara, Position secured: First.
- Basketball Tournament, Mangalam College of Engineering, Ettumanoor, Position secured: Second prize.
- Mangalam 3x3 Basketball Tournament, Mangalam College of Engineering, Ettumanoor, Position secured: Second

## STUDENT ACHIEVEMENTS

1. Aleena Xavier, Aiswarya P U, Prathibha S Prabhu of IIIDC completed NPTEL online certification course
2. Devika K., Prathibha S. Prabhu, Shanthi jestin won the second prize and Nithya Jude, Swarna Chonappally and Treasa Diya of IIIDC Chemistry won the third prize in the National Science Day celebrations 2020-UG project presentation competition in Chemical and Biological Sciences organized by the department of chemistry under the DBT-STAR college scheme.
3. Betty Maria of II DC was the winner of 'Motivational Short Video Contest' organized by CLSTAR, Thiruvananthapuram.
4. Prathibha S. Prabhu of III DC successfully completed online course on 'Introduction to Chemistry-Structures and solutions' offered by Duke University in Coursera.
5. National Science day- UG Project Presentation Competition in Chemical and Biological Sciences, organized by the department of chemistry under the DBT-STAR college scheme.  
2nd prize - Devika K, Prathibha S Prabhu, Shanthil Jestin  
3rd prize - Nithya Jude, Swarna S Chonapally, Treasa Diya
6. Anitta Antony - Best paper award at 15th prof. KV Thomas endowment National Seminar on "News frontiers in Materials & Environmental Sciences" organized by Department of Chemistry, SH College, Thevara
7. Aneeta Tyttus, Sreelakshmi Dileep - 2nd prize in paper presentation competition in the "National Symposium on Graduate Research" organized under DBT Star College scheme by Dr. NGP college of Arts and Science, Coimbatore
8. Aiswarya P U, Arya Nair, Krishnendhu L, Jinju John, Prathibha S Prabhu, Swarna Chonappally successfully completed Advanced Organic Chemistry workshop conducted by NPTEL at IISER Pune.
9. Aiswarya P U - Reading competition 3rd prize - conducted by Malayalam department in connection with Vayanadhinam.
10. Aiswarya P U and Prathibha S Prabhu - Participated in the MAY-12 Celebrating women in Mathematics quiz organized by Department of Mathematics, St. Teresa's college, Ernakulam.

## COLLEGE DAY PRIZES



1. RANGACHALU PRIZE :  
for securing the highest marks in BSc Chemistry : MERLIN RAJAN
2. MRS. SUMANGALA T. PAI PRIZE  
for securing the highest marks in I B.Sc Chemistry: SOPHIYA ANN
3. Prof. ANNAKUTTY PRIZE  
for being the best all-rounder from BSc Degree class in Chemistry: BINHA ROSE
4. ANJU LUZY GEORGE MEMORIAL ENDOWMENT :  
Prize instituted by her parents, awarded to the student who secures the highest marks of 2<sup>nd</sup> year B.Sc Chemistry examination : JINJU JOHN
5. FRANCIS ARTHASERY MEMORIAL PRIZE :  
instituted by his daughter Dr. Phyllis Arthasery awarded to four outstanding students of chemistry department :  
Varsha N V (III BSc Chemistry)  
Jilby Dominic (II BSc Chemistry)  
Mittu Thomas (I BSc Chemistry)  
Farseena K A (II PG Chemistry)

## NAVATHY SCHOLARSHIP



1. Mittu Thomas - I BSc.
2. Gowri Murali - I BSc.
3. Athira T. J. - I BSc.
4. Sophiya Ann - II BSc.
5. Merin Kuriakose - II BSc.
6. Pravesh Saini - I MSc