

DEPARTMENT ACTIVITIES STAR COLLEGE ACTIVITIES WEBINAR

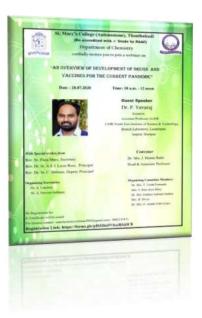
"An Overview of Development of Drugs and Vaccines for the current Pandemic"

A webinar on "AN OVERVIEW OF DEVELOPMENT OF DRUGS AND VACCINES FOR THE CURRENT PANDEMIC" was organised by the Department of Chemistry on 20.07.2020. **Dr. P. Yuvaraj**, Scientist, Assistant Professor AcSIR, CsIR- North East Institute of Science & Technology, Branch Laboratory, Lamphepat, Imphal, Manipur was the Resource Person. Dr.P.Yuvaraj started his lecture with the history of the Corona virus, differentiated the terms 'Epidemic' (disease that spreads throughout the state) and 'Pandemic'

(disease that spreads round the

globe), and the spreading nature and speed of the virus. He explained that the immune system plays a major role in the spread of the disease. In the US and European countries, the people are affected more due to inadequate sunlight and hence the lacking of Vitamin D. Usually men are affected more quickly than women and this may be due to the powerful immune system that exists in women due to physiological differences. Another reason for the poor immune system in men is that majority of the <section-header><complex-block>

men are alcoholic. In addition, Ac2 receptor will be more in men than in women and hence they adopt virus more easily. About 292 participants were registered for the programme. 125 participants took part in the webinar actively and clarified their doubts. E- Certificates were automatically generated through Certify'em and sent to their respective mails.



WORKSHOP

"Exploring Online Tools for Enhanced Learning"

The School of Physical Sciences organised a one-day online workshop on exploring online tools for enhanced learning on 19th September 2020, sponsored by DBT, Star College Scheme, New Delhi, for the UG students (245) of the School of Physical Sciences. Mr.Vimal Jerald, Assistant Professor of Computer Science, St. Joseph's College (Autonomous), Tiruchirapalli was the resource person. The resource person emphasised the need and necessity for learning online tools at this pandemic situation. Then the students were asked to join into the Google classrooms created by the resource person. Students were instructed on how to join the Google classroom , submit assignments, quiz, and how to upload scanned images, convert them into pdf and download materials from the Google classroom.

GUEST LECTURE

"Basics and Overview of Coordination Chemistry"

The Marian Star Centre , Department of Chemistry organised a guest lecture on "**Basics and Overview of Coordination Chemistry**" on 15th October 2020, sponsored by DBT, Star College Scheme, New Delhi, for the III UG students (46) .Dr. A. Elangovan, Associate Professor, PG & Research Department of Chemistry, Thiagarajar College, Madurai, was the resource person. The resource person in his lecture gave an overview of the basics of coordination chemistry right from terminology, types of ligands, nomenclature isomerism. He also touched upon the reaction mechanism , metal carbonyls and role of metal ion in biological system.



GUEST LECTURE

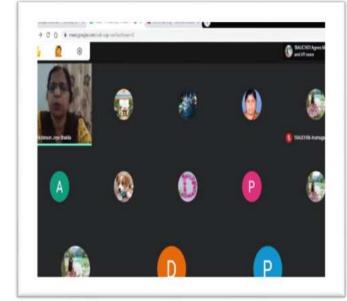
"Basic Quantum Chemistry"

The Marian Star Centre, Department of Chemistry organised a guest lecture on "**Basic Quantum Chemistry**" on 22nd October 2020, sponsored by DBT, Star College Scheme, New Delhi. All the UG Chemistry students (124), III Physics (39) students and participants from various colleges and universities (22) participated in this online guest lecture. Dr.S.Joseph Selvaraj, Head and Associate Professor, Department of Chemistry, St. Joseph's College (Autonomous), Tiruchirappalli was the resource person. He explained clearly the significance of quantum mechanics in spectroscopy, electrochemistry, organic reaction mechanism and chemical kinetics. He also pointed out the importance of the equation derived from Harmonic oscillator in the selection rules for IR spectroscopy. The quantum mechanical approach in photoelectric effect and Heisenberg uncertainty principle was also highlighted. He also exemplified the colour of inorganic compounds based on quantum chemistry and the importance of quantum chemistry in the field of drug discovery and space research.

WORKSHOP

A One Day Virtual Workshop on "Instrumental Analysis of Biochemical Constituents in Food"

The Marian Star Centre , Department of Chemistry organised **A One Day Virtual Workshop** on "Instrumental Analysis of Biochemical Constituents in Food" on 29th October, 2020, sponsored by DBT, Star College Scheme, New Delhi. All the II and III UG Chemistry students (83) participated in this workshop. Dr. R. JeyaShakila, Professor & Head, Department of Fish Quality Assurance and Management, Fisheries College Research Institute, Thoothukudi was the resource person. The resource person took us on a virtual tour



to the various labs in their department like biochemistry lab, instrumentation room, hot equipment room and

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explained the method of calculating the moisture content, ash content andprotein content in fish samples. She also showed how the freshness of fish can be analysed using a torimeter. Students had an opportunity to see HPLC, UPLC and Gas Chromatography and the resource person explained the method of analysis of fatty acids using it.

WORKSHOP

"Laboratory Safety Measures For Supportive Staff"



The Marian Star Centre , Department of Chemistry organised a Workshop on "Laboratory Safety Measures For Supportive Staff " sponsored by DBT, Star College Scheme, New Delhi on 21st January,2021. Supportive staff (19) from the department of Physics, Chemistry, Botany, Zoology, Computer science, History, library and Microbiology actively participated in the seminar. Dr. B.Divya , Assistant Professor of Chemistry, ST.Mary's College (Autonomous), Thoothukudi was the resource person. She clearly highlighted the need and importance of safety inside the laboratory, precautions to be taken while

handling chemicals and instruments, safe handling and calibration of glasswares, checking valves for gas leakage and first aid measures to be adopted in case of minor injury and mild chemical attack.

WORKSHOP "Clinical Laboratory Equipments"

The Marian Star Centre , Department of Chemistry and Zoology jointly organised a Workshop on "Clinical Laboratory Equipments" on 3rd March, **2021**,sponsored by DBT, Star College Scheme, New Delhi. Mr.T.Kombiah, Proprietor, Thanshri Diagnostics, Tirunelveli was the resource person. He explained clearly step by step the method of determination of blood parameters like sugar, cholesterol,



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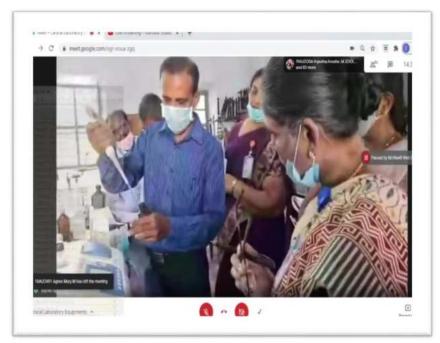
protein, albumin, urea and creatine using semi autoanalyser in the Chemistry department.

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The next session took place in zoology department laboratory where he explained the determination of pH, nitrite, specific gravity, ascorbic acid, bilirubin, urobilinogen, glucose, ketone, leucocyte, protein, creatinine, calcium and microalbumin using urine analyser, then counting blood cells using hemocytometer, haemoglobin content in the blood using



hemoglobinometer and blood pressure using sphygmomanometer.

NATIONAL WEBINAR

Technological Advancements in Science and Technology

(NWTAS 2021)

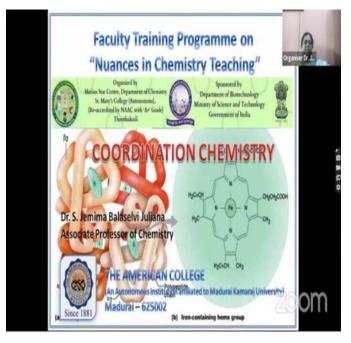
The Marian Star Centre, School of Physical Sciences, organised A **National Webinar on "Technological Advancements in Science and Technology"on16th & 17th April, 2021,** sponsored by DBT, Star College Scheme, New Delhi. All the U.G students from the department of Physics and chemistry and III UG students from the department of mathematics, computer science, Botany, Zoology, Microbiology and Psychology participated in the webinar (411) along with participants from various institutions.

NATIONAL SCIENCE CONCLAVE FOR SCHOOL STUDENTS

National Science Conclave For School Students organized was organized on 11th May 2021. Greeting everyone a National Technology Day, Dr. V. Alex Ramani, Deputy Principal, Former Head, Department of Chemistry, St. Joseph's College Tiruchirapalli, the expert speaker of the day addressed the school students

on the topic "Exploring Some Interesting Facts in Chemistry. He highlighted in a very simple and elucid way about the five giant forces namely earth, water , air, space and fire and chemistry behind them. He also insisted about the impact of chemistry in day to day life, chemistry of green house effect, ozone layer depletion and finally chemistry in human need. To sum up he discussed some interesting aspects of chemistry in the following branches namely geochemistry, ocean chemistry, environmental chemistry, nuclear chemistry, food chemistry, dye chemistry, polymer chemistry, petroleum chemistry, electrochemistry and pharmaceutical chemistry. Students enthusiastically participated in the program and interacted with the chief guest actively. Assignments in Chemistry were given to the students of different classes and also posted in the google classroom.

FACULTY DEVELOPMENT PROGRAMME "Nuances in Chemistry Teaching" (Exclusively For School Teachers)



The Department of Chemistry organized Five Days Faculty Development Programme on

"Nuances in Chemistry Teaching" sponsored by DBT, Star College Scheme, New Delhi, from June 21st - 25th, 2021. Dr. P.Sami, Associate Professor, Department of Chemistry, V.H.N.Senthikumara Nadar College (Autonomous), Virudhunagar delivered a lecture on the topic "Solid Chemistry" in which he highlighted about basic unit cell, their parameters and explained virtually about the phases and corners. He also gave a clear idea about Bravais lattice and its calculations. He also dealt

with problems and gave workout examples for the participants for thorough understanding of Solid chemistry. In addition he explained the coordination number with the ratio of ions and also the packing efficiency of the crystal systems. He also correlated the regularity of the crystals and their defects with examples of the present situation of covid. There were 141 participants on day 1.

On the second day Dr. P.Sami, Associate Professor, V.H.N.SenthilkumarNadar College (Autonomous), Virudhunagar addressed the virtual gathering on the topic "Electrochemistry". He started

with the basics of electrochemistry, discussed the importance of electrode potential and the electrochemical reactions through various examples. He also explained about the types of batteries and explained the role of batteries going in our future. Around 156 participants attended the session. The participants actively participated and gave a feedback that they are happy to know the electrochemistry teaching with simple examples by attending this session. This Day 2 session was hosted by Dr. A. ParveenSulthana, Assistant Professor of Chemistry, St. Mary's College (Autonomous), Thoothukudi.

On the third day, the event was hosted by Mrs. D. Caroline Jeniba Rachel, Assistant Professor of Chemistry, St. Mary's College (Autonomous), Thoothukudi. Dr. Irudaya Antonant Sophia, Assistant Professor of Chemistry welcomed all virtually. Dr. S.Jemima Balaselvi Juliana, Associate Professor of



Chemistry, The American College, Madurai was the resource person. The resource person discussed on the topic "Coordination Chemistry". She explained how to teach coordination concepts in an easy and understandable way and discussed how coordination chemistry is useful in understanding metal behavior, medicine, metal extraction. electroplating and water hardness.162 participants actively participated in this and cleared their doubts with the experts.

On day 4 (24.6.2021), Dr.K.Muruga Poopathi Raja, Assistant Professor, Department of Physical Chemistry, School of Chemistry, Madurai Kamaraj University delivered a lecture on the topic "Biomolecules Part I". He focused on topics like aminoacids, proteins,

their basic structure and functions, DNA, RNA and information transfer in biological systems. Nearly 152 participants attended the programme and gave wonderful feedbacks. They also clarified their doubts with the resource person.

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On the fifth day Dr.K.Muruga Poopathi Raja delivered a lecture on the topic on "Biomolecules Part II". He explained about the classification of carbohydrates, confirmation, reactions and the structural elucidation. He also explained about Fischer Projection, Sawhorse diagrams of the molecule and explained the symmetry of the elements, its manipulation, he also dealt about the vitamins their sources, functions and deficiency caused, lipids, hormones and its physiological role. At the end of the session he explained about the job opportunities. He clarified the doubts of the participants with full descriptions. There were 150 participants on the last day.Faculty from various schools and colleges actively participated. Apart from different parts of Tamilnadu, there were participants from Maharashtra, Rajasthan, Uttar Pradesh, Bihar, Kerala, Puducherry, Punjab, Telengana, West Bengal and Karnataka.

Community Development Programme Activities

Our students created awareness videos on COVID 19 and the importance of maintaining health during pandemic situation. The video was posted to the korampallam area through whatsapp group.

HANDS ON TRAINING



Morning Star Social and Educational Trust coordinated all the activities of the training. Our second year students B. Sneha, M. Ranjitha, J. Muthu Rathi, S. Subhalakshmi trained the women to prepare Washing A HANDS ON TRAINING on **Empowering Rural women with Entrepreneurial Skills** was organized for the women of Korampallam panchayat, Thoothukudi as apart of Unnat Bharat Abhiyan programme from 22nd February 2021 to 5th March 2021. Mrs.X.Rajathi, Managing Director,



Powder, Dish wash liquid, Phenoyle which helps them to uplift their life.



WEBINAR

COVID 19 SECOND WAVE & PROPER TECHNIQUE FOR HAND SANITISER



Thoothukudi. A. Infant Jenoviya, II B.Sc Chemistry delivered a bharathiyar poem and sought God's Blessings. A. Priyadarshini welcomed the gathering. Dr. Sr. Josephine, St. John's Hospital, Bangalore was the Chief Guest. The Doctor discussed about the corona's second influence in the world, how to avoid fear, ways to treat corona patients and the food

& HAND WASHING

On April 28, 2021, the Department of Chemistry organised a webinar under Community Development Programme/ Unnat Bharat Abhiyan on the Title "COVID - 19 SECOND WAVE & PROPER TECHNIQUE FOR HAND SANITISER & HAND WASHING" for the adopted village Antonyarpuram - Korampallam Panchayat and for the students of St. Mary's College (Autonomous),



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methods and lifestyle to be followed. The meeting was held through google meet and you tube. The people

of the adopted village and the students have actively participated and cleared their doubts. The students were given guidance to effectively use mask and hand sanitiser. The meeting was held with the support and guidance of Dr. Sr. KulandaiTherese, CDP/ UBA Co-ordinator.

The second year students of chemistry gave a detailed view on awareness about COVID - 19. M. Ranjitha gave an elaborate idea on the techniques to be followed for hand sanitiser preparation and the methods of hand washing. A video presentation about the second wave corona was presented by R. Vanathi. An awareness speech was delivered by



C.S. Suriya. J. Crossinie delivered the vote of thanks. The programme was hosted by Varsha Antanitta.

INSTITUTION INNOVATION COUNCIL ACTIVITIES

The Department of Chemistry along with the Institution Innovation Council has organised a Video Content Creation on the topic " A COVID 19 – A Chemist Perspective". Google form was provided to upload their video content on or before 25th August 2021. The presentation of video content was arranged through google meet on 06.10.2021. 14 videos were received in Google classroom. During presentation, top 10 videos were selected and are asked to present. Dr. Shibana, Director of IIC was the evaluator. Top three presentation was announced and the winners were awarded with cash prize.

First Prize:

Varsha Antanitta . S, III B.Sc Chemistry Second Prize: Ranjitha M, III B.Sc Chemistry Third Prize: Muthukavitha . M, , II B.Sc Chemistry

WEBINAR

PRODUCT INNOVATION FOR BIO-BASED ECONOMY

On 12th April 2021, the Department of Chemistry in association with Institution's Innovation Council, St.Mary's College, (Autonomous) Thoothukudi has organised a webinar on the topic "**PRODUCT INNOVATION FOR BIO-BASED ECONOMY.**

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Dr. M. Kirupa Sankar ,Senior Assistant Professor, Department of Biotechnology, Bannari Amman Institute of Technology, Sathyamangalam, Erode has addressed the students about bio based economy. R



Vanathi of II B.Sc Chemistry has delivered the welcome address. The students have gained knowledge on how to create innovation. The webinar also gave clear vision about the invention and innovation, different types of innovation, how to express novelty in the creative idea, Contribution of Chemistry to sustainable Development. Faculty members and 124 students have attended this webinar. The meeting ended with the vote of thanks by Maria Hannah of III B.Sc Chemistry.

STAFF ACTIVITIES

As a Reviewer

Dr. Irudaya Antonat Sophia served as a reviewer for the Current Journal of Applied Science and Technology and Journal of Engineering Research and Report.





As A Resource person

- ▶ Ms. B.Divya Gave a Lecture on the topic "Laboratory safety Measures for supportive staff" on 27.01.2021 at St. Mary's college (Autonomous), Thoothukudi.
- Ms. B.Divya Gave a Lecture on the topic "Tricksand Tips for CSIR-NET/SET Chemical Science" on 30.11.2020 at Kamaraj College, Thoothukudi.

Publications

- \succ The department of chemistry has published 7 Laboratory manuals under STAR COLLEGE **SCHEME**
- \succ Lakshmi Published "Synthesis of metal oxide nanoparticles doped poly 3-anisidine nanocomposites with enhanced electrocatalytic activity for methanol oxidation"in the journal Materials Today: Proceedings, ISSN 2214-7853,
- Published a Book Biochemistry (Volume- I, First Edition) with ISBN code 978938043053 along with the Authors A. Arockia Jenecius Alphonse, P.Subavathy from CBA Publishers, Chennai during June2020.



materialstoday:

Synthesis of metal oxide nanoparticles doped poly 3 anisidine nanocomposites with enhanced electrocatalytic activity for methanol oxidation

S. Shyamala ^a, S. Kalalarasi ^b, P. Karpagavinayagam ^c, <u>C. Vedhi ^c, R. R. Muthuchudarkodi ^c</u> Saminathan Kulandarvel ^d, A. Lakshmi ^e .2, Sil

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- Department of Chemistry, Kongunadu Arts and Science College, Coimbatore 29, India
- artment of Chemistry, St. Mory's College (Auton thokudi. Indie

Online Course

Completed Coursera Course (seven weeks) with honors on Introduction to Chemistry: Structures and Solutions authorised by Duke University, USA on 06-Aug-2020.

Duke	COURSE CERTIFICATE
G. Amala Jothi Grace	
Introduction to Chemistry: Structures and Solutions	(coursero)
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Participation in seminar / workshop/webinar/ FDP/Online Courses

Due to the pandemic situation, our faculty attended many programmes through online.

Name of the Staff	Workshop/Seminar/ Webinar/National level or International level/Conference	Title of the Programme	Paper presented/ participated	Organised by	Date
Dr J Martin Rathi	A One Day Virtual Workshop	Instrumental Analysis of Biochemical Constituents in Food	Participated	Marian Star CentreDepartment of Chemistry, St. Mary's College (Autonomous), Thoothukudi	29-Oct-2020
Dr J Martin Rathi	International Webinar	"Plasmon-Enhanced Spectroscopy and its Role in Analytical Chemistry"	Participated	Research & PG Department of Chemistry,Saraswathi NarayananCollege, Madurai, Tamil Nadu, India	24 -Jul- 2020.
Dr J Martin Rathi	webinar	An overviewof Development of Drugs and Vaccines for the Current Pandemic"	Participated	Department of Chemistry, St.Mary's College (Autonomous), Thoothukudi	20-Jul-2020
Dr J Martin Rathi	National Webinar	Learning to live with COVID-19:Embracing the New Reality	Participated	IQAC, St.Mary's College (Autonomous), Thoothukudi	11-Jul-2020
Dr J Martin Rathi	International Webinar	An Update on Covid 19	Participated	IQAC, St.Mary's College (Autonomous), Thoothukudi	10-Jul-2020

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Dr J Martin Rathi	International webinar	FOODS: FABULOUS MEDICINES	Participated	GOVT Arts College for Women Salem	26-Jun-2020
Dr J Martin Rathi	International Webinar	Advanced Functional Materials for Biomedical energy	Participated	Department of Chemistry Loyola College(Autonomous) Chennai	24-Jun-2020& 25-Jun-2020
Dr J Martin Rathi	Webinar	Electroanalytical Techniques	Participated	American College Central Instrumentation Center, The American College, Madurai	24- Jun-2020.
Dr J Martin Rathi	National Level Webinar	Intermolecular Bonding	Participated	Department of Chemistry, Women's Christian College, Chennai	16- Jun-2020.
Dr J Martin Rathi	National Webinar	Spectroscopic Methods in Chemistry Research"	Participated	Post Graduate & Research Department of Chemistry, PSGR Krishnammal College for Women, Coimbatore	11- Jun- 2020 & 12- Jun- 2020
Dr J Martin Rathi	International Webinar	Porous carbon-based nano Composite for energy storage and sensingChemical biology of covid-19	Participated	PG&Research Center of Chemistry JayarajAnnapackiam College for women (Autonomous)Periyakula m	11- Jun- 2020 & 12- Jun- 2020
Dr J Martin Rathi	National Webinar	"Nano Materials	Participated	Research Department of Chemistry, SadakathullahAppa College (Autonomous), Rahmath Nagar, Tirunelveli.	06-Jun- 2020
Dr J Martin Rathi	Webinar	"Green Extraction in Food Industries"	Participated	Research Department of Chemistry, SadakathullahAppa College (Autonomous), Rahmath Nagar, Tirunelveli	05- Jun- 2020.
Dr J Martin Rathi	International Faculty Development Programme	Invisible Scholars: Students with Learning Disabilities &	Participated	IQAC, St.Mary's College (Autonomous), Thoothukudi	02Jun-2020

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		Identification of Students with Learning Disabilities			
Dr.T.Linda Fernando	Workshop	Instrumental analysis of biochemical constituents in food	Participated	Marian star centre,Dept of Chemistry St. Mary's College (Autonomous), Thoothukudi	29-Oct-2020
Dr.T.Linda Fernando	Workshop	Online demonstrative workshop	Participated	Pearl Soft centre,Thoothukudi	29&30-Jul-2020
Dr.T.Linda Fernando	Seminar	An Overview of Devlopment of Drugs and Vaccines for the current Pandemic".	Participated	Dept of Chemistry St. Mary's College (Autonomous), Thoothukudi	20-Jul-2020
Dr.T.Linda Fernando		Enticing ways to Reinvent basics of NanoscienceThoothuku di	Participated	School of Physical Sciences (SSC), St. Mary's College (Autonomous),	17-Jul-2020
Dr.T.Linda Fernando		Electrospinning of Nanobiomaterials and Role of a Chemist in development of Nanobiomaterial	Participated	V O C College, Thoothukudi	8- Jul- 2020
Dr.T.Linda Fernando	Seminar	Our Cosmic Consciousness	Participated	Servite Arts & Science College for Women, Thogaimalai, Karur District	29-Jun-2020
Dr.T.Linda Fernando	Seminar	Digital aids for Chemistry Teachers (Convergence for 2020	Participated	S.E.S. College, Sreekandpuram, Kannur,Kerala	07-Jun-2020
Dr.T.Linda Fernando	Workshop	Transforming Education - The Google Classroom way	Participated	Aachi Institute of Management and Entrepreneurial Development, Chennai	01- Jun-2020 to 06-Jun-2020
Ms.S. Rani Jeyamary	Webinar	An overview of Development of Drugs and Vaccines for the current pandemic	Participated	Department of Chemistry, St.Mary's College (Autonomous), Thoothukudi.	20-Jul-2020

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Ms.S. Rani Jeyamary	International Webinar	Integrative Nanomedicine for new Therapies	Participated	SaivaBhanu Kshatriya College, Aruppukottai	18-Jul-2020
Ms.S. Rani Jeyamary	Webinar	National Webinar: Learning to live with COVID-19	Participated	Internal Quality Assurance Cell, St. Mary's College (Autonomous), Thoothukudi	11-Jul-2020
Ms.S. Rani Jeyamary	Webinar	International Webinar : An Update on COVID-19	Participated	Internal Quality Assurance Cell, St. Mary's College (Autonomous), Thoothukudi	10-Jul-2020
Ms.S. Rani Jeyamary	Webinar	National Webinar on " Teaching during and post COVID times"	Participated	Guru AngadDev Teaching Learning Centre of MHRD, SGTB Khalsa college, Delhi University	12-Jun-2020
Ms.S. Rani Jeyamary	Webinar	Webinar on Stem Cell Therapy in COVID-19: Present or Future	Participated	Dept of Microbiology, St. Mary's College (Autonomous), Thoothukudi	08-Jun-2020
Ms.S. Rani Jeyamary	Webinar	Webinar on "Higher Education in 21st Century: Vision and Action in the Current Scenario"	Participated	Department of Chemistry, Mount Carmel College (Autonomous), Bengaluru	05-Jun-2020 & 06-Jun-2020
Ms.S. Rani Jeyamary	Webinar	National Webinar on " Biodiesel from Marine Algae"	Participated	Department of Chemistry, V.O.Chidambaram College, Thoothukudi	05-Jun-2020
Ms.S. Rani Jeyamary	Webinar	Webinar on "Mossbauer Spectroscopy Elucidation of Magnetic Compounds in Biological System	Participated	Department of Botany, St. Mary's College (Autonomous), Thoothukudi	02-Jun-2020 & 03-Jun-2020
Ms.S. Rani Jeyamary	Webinar	Webinar on "Graphene based Nanocomposites for Energy Storage"	Participated	Department of Physics, V.O.Chidambaram College, Tuticorin	01-Jun-2020

Ms.S. Rani Jeyamary	Webinar	Power Webinar on Reprogramming your Mind	Participated	Sri Venkateswara College of Technology, Sriperumbuthur	01-Jun-2020
Dr. Irudaya Antonat Sophia	National Webinar	Academic Visibility in the Digital World	participated	Department of Library St. Mary's College (Autonomous), Thoothukudi	12Feb-2021
Dr. Irudaya Antonat Sophia	National Webinar	Increasing Visibility in the Research World Using Academic and Social Media	participated	Department of Library and Marian Research Forum, St. Mary's College(Autonomous), Thoothukudi	31-Oct-2020
Dr. Irudaya Antonat Sophia	A One Day Virtual Workshop	Instrumental Analysis of Biochemical Constituents in Food	participated	Marian Star Centre Department of Chemistry St. Mary's College (Autonomous), Thoothukudi	29-Oct-2020
Dr. Irudaya Antonat Sophia	Workshop	"Online Teaching-Make It Easy"	participated	Internal Quality Assurance Cell(IQAC), Government Arts And Science College (Women) Sathankulam	09-Aug-2020 .
Dr. Irudaya Antonat Sophia	Webinar	An overview of Development of Drugs and Vaccines for the Current Pandemic"	participated	Department of Chemistry St. Mary's College (Autonomous), Thoothukudi	20 ⁻ Jul-2020
Dr. Irudaya Antonat Sophia	National Level Workshop	ICT Tools For Smart Teaching	participated	Servite College of Education For Women	18-Jun-2020 to 20-Jun-2020
Dr. Irudaya Antonat Sophia	FDP	Digital Tools For Smart Teaching		Servite Arts And Science College For Women Thogamalai	16-Jun-2020 and 17-Jun-2020
Dr. Irudaya Antonat Sophia	National Webinar	Intermolecular Bonding	participated	Women's Christian College Chennai	16-Jun-2020
Dr. Irudaya Antonat Sophia	Webinar	Google's UI Toolkit	participated	Department of Computer Science and Computer Applications Servite Arts And Science College For Women Thogamalai	13-Jun-2020

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Dr. Irudaya Antonat Sophia	National Level Online Certificate Course	Medicinal Chemistry	participated	Sri Parasakthi College For Women(Autonomous) Courtallam	12-Jun-2020
Dr. Irudaya Antonat Sophia	International Webinar	Lecture 1:Porous Carbon Based Nanocomposite For Energy Storage And Sensing Lecture 2:Chemical Biology of Covid 19	participated	JeyarajAnnapackiam College For Women Periyakulam	11-Jun-2020 and 12-Jun-2020
Dr. Irudaya Antonat Sophia	National Level Webinar	Designing New Chiral Molecules For Asymmetric Organocatalysis	participated	PG & Research Department of Chemistry V.O.Chidambaram College Thoothukudi	11-Jun-2020
Dr. Irudaya Antonat Sophia	International Webinar	Evolution and Transformation of Chemistry: A Futuristic Approach	participated	S.T.Hindu College Nagercoil	08-Jun-2020
Dr. Irudaya Antonat Sophia	National Webinar	Nanomaterials	participated	SadakathullahAppa College (Autonomous) Tirunelvel	06-Jun-2020
Dr. Irudaya Antonat Sophia	National Webinar	Biodiesel From Marine Algae	participated	V.O.Chidambaram College Thoothukudi	05-Jun-2020
Dr. Irudaya Antonat Sophia	Quiz	World Environment Day	participated	Sarah Tucher College(Autonomous) Tirunelveli	05-Jun-2020
Dr. Irudaya Antonat Sophia	National Level Online Course	Five Days Online Course in "Chemistry In Our Day-To-Day Life"	participated	Jamal Mohamed College Tiruchirapalli	04-Jun-2020 - 08-Jun-2020
Dr. Irudaya Antonat Sophia	International Webinar	Effective Usage of ICT Tools For Higher Education	participated	Servite Arts And Science College For Women Thogamalai	03-Jun-2020
Dr. Irudaya Antonat Sophia	Webinar	Introduction to Geographic Information System(GIS)	participated	Department of Physics, St. Mary's College (Autonomous), Thoothukudi	02-Jun-2020
Dr. Irudaya Antonat Sophia	Webinar	Graphene Based Nanocomposites For Energy Storage	participated	V.O.Chidambaram College Thoothukudi	01-Jun-2020

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Dr. Irudaya Antonat Sophia	Quiz	Fundamentals of Rechargeable Batteries	participated	RajapalayamRajus' College Rajapalayam	01-Jun-2020
Dr.A.Lakshmi	National Webinar	Increasing Visibility in the Research World Using Academic and Social Media	participated	Department of Library and Marian Research Forum, St. Mary's College(Autonomous), Thoothukudi	31-Oct-2020
Dr.A.Lakshmi	A One Day Virtual Workshop	Instrumental Analysis of Biochemical Constituents in Food	Participated	Marian Star Centre Department of Chemistry St. Mary's College (Autonomous), Thoothukudi	29-Oct-2020
Dr.A.Lakshmi	Webinar	An overview of Development of Drugs and Vaccines for the Current Pandemic"	participated	Department of Chemistry St. Mary's College (Autonomous), Thoothukudi	20 ⁻ Jul-2020
Dr.A.Lakshmi	National Level Workshop	ICT Tools For Smart Teaching	participated	Servite College of Education For Women	18-Jun-2020 to 20-Jun-2020
Dr.A.Lakshmi	FDP	Digital Tools For Smart Teaching	participated	Servite Arts And Science College For Women Thogamalai	16-Jun-2020 and 17-Jun-2020
Dr.A.Lakshmi	National Webinar	Intermolecular Bonding	participated	Women's Christian College Chennai	16-Jun-2020
Dr.A.Lakshmi	Webinar	Google's UI Toolkit	participated	Department of Computer Science and Computer Applications Servite Arts And Science College For Women Thogamalai	13-Jun-2020
Dr.A.Lakshmi	National Level Online Certificate Course	Medicinal Chemistry	participated	Sri Parasakthi College For Women(Autonomous) Courtallam	12-Jun-2020
Dr.A.Lakshmi	International Webinar	Lecture 1:Porous Carbon Based Nanocomposite For Energy Storage And Sensing	participated	JeyarajAnnapackiam College For Women Periyakulam	11-Jun-2020 and 12-Jun-2020

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		Lecture 2:Chemical Biology of Covid 19			
Dr.A.Lakshmi	National Level Webinar	Designing New Chiral Molecules For Asymmetric Organocatalysis	participated	PG & Research Department of Chemistry V.O.Chidambaram College Thoothukudi	11-Jun-2020
Dr.A.Lakshmi	International Webinar	Evolution and Transformation of Chemistry: A Futuristic Approach	participated	S.T.Hindu College Nagercoil	08-Jun-2020
Dr.A.Lakshmi	National Webinar	Nanomaterials	participated	SadakathullahAppa College(Autonomous) Tirunelvel	06-Jun-2020
Dr.A.Lakshmi	National Webinar	Biodiesel From Marine Algae	participated	V.O.Chidambaram College Thoothukudi	05-Jun-2020
Dr.A.Lakshmi	International Webinar	Effective Usage of ICT Tools For Higher Education	participated	Servite Arts And Science College For Women Thogamalai	03-Jun-2020
Dr.A.Lakshmi	Webinar	Introduction to Geographic Information System(GIS)	participated	Department of Physics, St. Mary's College (Autonomous), Thoothukudi	02-Jun-2020
Dr.A.Lakshmi	Webinar	Graphene Based Nanocomposites For Energy Storage	participated	V.O.Chidambaram College Thoothukudi	01-Jun-2020
Dr.A.Lakshmi	Quiz	Fundamentals of Rechargeable Batteries	participated	RajapalayamRajus' College Rajapalayam	01-Jun-2020
Ms.B. Divya	National Webinar	Academic Visibility in the digital world	Participated	Department of Library, St. Mary's College (Autonomous) Thoothukudi	12-Feb-2020
Ms.B. Divya	Webinar	Science behind criminal investigation	Participated	Kamaraj College, Thoothukudi.	22-Jul-2020
Ms.B. Divya	International webinar	On An Update on Covid 19	Participated	IQAC, St. Mary's College (Autonomous) Thoothukudi	10- Jul -2020

Ms.B. Divya	Webinar	Qualitative and Quantitative metrics in NAAC's Self Study Report for Teacher Education Institute	Participated	Annammal College of Education for women, Thoothukudi	03-Jul-2020 05-Jul-2020
Ms.B. Divya	webinar	Industry 4.0 and 21 century skills	Participated	Annammal College of Education for women, Thoothukudi	15-Jun-2020
Ms.B. Divya	International webinar	Role of Psychology to Fight Against Covid-19 Pandemic	Participated	Mahatma Phule Arts, Science & Commerce College, Panvel, Dist- Raigad	12-Jun-2020
Ms.B. Divya	National Level Certificate Course	Online Certificate Course on Medicinal Chemistry	Participated	<i>Sri ParasakthiCollege f</i> or Women (Autonomous),Courtalla m	12-Jun-2020
Ms.B. Divya	Webinar	Designing New Chiral Molecules for Asymmetric Organocatalysis	Participated	Department of Chemistry, V.O.Chidambaram College, Thoothukudi	11-Jun-2020
Ms.B. Divya	Webinar	Creating a Safer, Cleaner and Healthier Post Pandemic World towards Career Success	Participated	MESTON College of Education (Autonomous) Chennai	10-Jun-2020
Ms.B. Divya	International Webinar	Evolution and Transformation of Chemistry: A Futuristic Approach	Participated	S.T. HINDU COLLEGE NAGERCOIL -2	08-Jun-2020
Ms.B. Divya	Webinar	'WOMEN: Back to Traditional Role	Participated	Bharathidasn University & Annammal College of Education for women, Thoothukudi	03-Jun-2020
Ms.B. Divya	Webinar	Introduction to Geographic Information System (GIS)	Participated	V.O.Chidambaram College, Thoothukudi	02-Jun-2020
Ms.B. Divya	Webinar	Developing Green Skills to Produce Skilled Workers for Sustainable Development	Participated	Colombo Plan Staff College	01-Jun-2020.

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Ms.B. Divya	Webinar	Graphene based Nanocomposites for Energy Storage	Participated	V.O.Chidambaram College, Thoothukudi	01-Jun-2020
Dr.A.Parveen Sulthana	International Webinar	An Update on Covid '19	Participated	IQAC, St.Mary's College (Autonomous), Thoothukudi	10-Jul-2020
Dr.A.Parveen Sulthana	Webinar	Rudiments of Outcome Based Education	Participated	IQAC, Kamaraj College, Thoothukudi	06-Jul-2020
Dr.A.Parveen Sulthana	International Level Webinar	Knowledge Mangement in Higher Education	Participated	Sarah College Education for Women, NanjaiUthkkuli, Erode	03-Jul-2020
Dr.A.Parveen Sulthana	Webinar	Lockdown ? Unlock your Potentiality	Participated	Department of Mechanical Engineering, Francis Xavier Engineering, Tirunelveli	02-Jul-2020
Dr.A.Parveen Sulthana	Webinar	Asymmetric Synthesis and its Applications	Participated	PG Department of Chemistry, HajeeKarutharRowtherHo wdia College, Uthamapalayam, Theni District	30-Jun-2020
Dr.A.Parveen Sulthana	Webinar	A Simple Perspective of Glycosciences	Participated	PG and Research Department of Chemistry, Holy Cross College (Autonomous), Tiruchirappalli	30-Jun-2020
Dr.A.Parveen Sulthana	International Webinar	Covid-19, Experience sharing success story of South Australia	Participated	Department of History, Kamaraj College, Thoothukudi	28-Jun-2020
Dr.A.Parveen Sulthana	International Webinar	Emerging Trends in Energy & healthcare	Participated	Department of Chemistry, AnnaiHajira Women's College, Melapalayam, Tirunelveli	25-Jun-2020 To 27-Jun-2020
Dr.A.Parveen Sulthana	Webinar	Energy management in building	Participated	Department of Mechanical Engineering, Francis Xavier Engineering College, Tirunelveli	26-Jun-2020
Dr.A.Parveen Sulthana	International Webinar	Advanced Functional Materials for Biomedical & Energy	Participated	Department of Chemistry, Loyola College(Autonomous), Chennai	24-Jun-2020 & 25-Jun-2020

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Dr.A.Parveen Sulthana	Webinar	Electroanalytical Techniques	Participated	American College Central Instrumentation Center, The American College, Madurai	24-Jun-2020
Dr.A.Parveen Sulthana	Webinar	Advances in Crystal Growth and Nanomaterials	Participated	Department of Physics(SF), Kamaraj College, Thoothukudi	18-Jun-2020
Dr.A.Parveen Sulthana	Two days Faculty Development Programme	Digital Skills For Smart Teaching	Participated	Servite Arts and Science College For Women, Thogaimalai, Karur District	16-Jun-2020 & 17-Jun-2020
Dr.A.Parveen Sulthana	National Level Webinar	Intermolecular Bonding	Participated	Department of Chemistry, Women's Christian College, Chennai	16-Jun-2020
Dr.A.Parveen Sulthana	National level Webinar	Research methodology and Catalysis in Chemical Sciences	Participated	Department of Chemistry & Research, Nesamony Memorial Christian College, Marthandam	16-Jun-2020
Dr.A.Parveen Sulthana	Webinar	Research Skill- Key to Success	Participated	Francis Xavier Engineering College, Tirunelveli in association with Wings of Aero	14-Jun-2020
Dr.A.Parveen Sulthana	Webinar	Google's UI Toolkit	Participated	Department of Computer Science and Computer Applications, Servite Arts and Science College For Women, Thogaimalai, Karur District	13-Jun-2020
Dr.A.Parveen Sulthana	National level Online Webinar	Importance of Spectroscopy in NET Examination	Participated	Department of Chemistry and Physics, Government Arts College(A), Salem.	12-Jun-2020
Dr.A.Parveen Sulthana	One Day National Level Online Certificate Course	Medicinal Chemistry	Participated	Department of Chemistry, Sri Parasakthi College for Women Courtallam	12-Jun-2020
Dr.A.Parveen Sulthana	International Webinar	Lecture 1: Porous Carbon based Nanocomposites for	Participated	PG and Research Centre of Chemistry, JayarajAnnapackiam	11-Jun-2020 &

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		Energy storage and sensing; Lecture 2: ChemicalBiology of Covid-19		College for Women (Autonomous), Periyakulam, Theni District	12-Jun-2020
Dr.A.Parveen Sulthana	National Level Webinar	Designing New Chiral Molecules for Asymmetric Organocatalysis	Participated	PG & Research Department of Chemistry, V.O.Chidambaram college	11-Jun-2020
Dr.A.Parveen Sulthana	One day Online Webinar	Stemcell Therapy in Covid 19; Present or Future	Participated	Department of Microbiology, St. Mary's College(Autonomous), Thoothukudi	08-Jun-2020
Dr.A.Parveen Sulthana	International Multidisciplinary Webinar- Convergence 2020	Digital Aids for Chemistry Teachers	Participated	IQAC and Department of Chemistry, S.E.S. College, Sreekandapuram, Kannur, Kerala	07-Jun-2020
Dr.A.Parveen Sulthana	National Webinar	Nano Materials	Participated	The Research Department of Chemistry, SadakathullahAppa College (Autonomous), Rahmath Nagar, Tirunelveli	06-Jun-2020
Dr.A.Parveen Sulthana	Webinar	Green Extraction in Food Industries	Participated	Research Department of Chemistry, SadakathullahAppa College (Autonomous), Rahmath Nagar, Tirunelveli	05-Jun-2020
Dr.A.Parveen Sulthana	National Level Webinar	Biodiesel from Marine Algae	Participated	PG & Research Department of Chemistry, V.O.Chidambaram College	05-Jun-2020
Dr.A.Parveen Sulthana	Webinar	Composite Manufacturing & Tooling	Participated	Department of Mechanical Engineering, Francis Xavier Engineering College, Tirunelveli	04-Jun-2020

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Dr.A.Parveen Sulthana	International Webinar	Effective usage of ICT Toole for Higher Education	Participated	Servite Arts and Science College For Women, Thogaimalai, Karur District	03-Jun-2020
Dr.A.Parveen Sulthana	Webinar	Introduction to Geographic Information System (GIS)	Participated	Department of Physics, St. Mary's College (Autonomous), Thoothukudi	02-Jun-2020
Dr.A.Parveen Sulthana	International Faculty Development Programme	Invisible Scholars: Students with Learning Disabilities & Identification of Students with Learning Disabilities	Participated	IQAC, St.Mary's College (Autonomous), Thoothukudi	02-Jun-2020
Dr.A.Parveen Sulthana	Webinar	Graphene based nanocomposites for Energy Storage	Participated	Department of Physics, V.O.Chidambaram College, Thoothukudi.	01-Jun-2020
Dr. G. Amala Jothi Grace	Online Certificate Course	Medicinal Chemistry	Participated	Department of Chemistry, Sri Parasakthi College for Women, Courtallam.	12-June-2020
Dr. G. Amala Jothi Grace	Webinar	Biodiesel from Marine Algae	Participated	PG & Research Department of Chemistry, V.O. Chidambaram College, Thoothukudi.	05-June-2020
Dr. G. Amala Jothi Grace	Webinar	Mossbauer Spectroscopy – Elucidation of Magnetic compounds in Biological system	Participated	PG & Research Department of Botany, St.Mary's College (Autonomous), Thoothukudi.	02-June-2020 & 03-June-2020
Dr. G. Amala Jothi Grace	Webinar	Graphene based Nanocomposites for Energy Storage	Participated	Department of Physics, V.O. Chidambaram College, Thoothukudi.	01-June-2020
Dr. G. AmalaJothi Grace	Webinar	How to use open Educational resources to desire	Participated	Department of Physics (SSC), St.Mary's College (Autonomous), Thoothukudi.	31-May-2020

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Dr. G. AmalaJothi Grace	Webinar	Laboratory Safety Practices	Participated	Department of Chemistry, SIES College, Mumbai.	31-May-2020
Dr. G. AmalaJothi Grace	Webinar	An Overview of E- content Development	Participated	Department of Physics, St.Mary's College (Autonomous), Thoothukudi.	29-May-2020
Dr. G. AmalaJothi Grace	Webinar	Lessons of Lockdown: Magnitude of The Butterfly Effect	Participated	Department of Physics, St.Mary's College (Autonomous), Thoothukudi.	28-May-2020
Dr. G. AmalaJothi Grace	Webinar	Advancement of Chemistry on different Perspectives	Participated	PG and Research Department of Chemistry, S.T.Hindu College, Nagercoil.	26-May-2020 & 27-May-2020
Dr. G. AmalaJothi Grace	Webinar	Renewable Energy – Focus on Wind Energy	Participated	R.M.D. Engineering College, Tiruvallur	22-May-2020
Dr. G. AmalaJothi Grace	Webinar	Energy, Energy Everywhere, How to harness it?	Participated	Department of Chemistry, V.O. Chidambaram College, Thoothukudi.	21-May-2020
Dr. G. AmalaJothi Grace	Webinar	The Role of Nanotechnology Against Covid-19	Participated	Department of Nanoscience& Technology, Alagappa University, Karaikudi	20-May-2020 To 22-May-2020
Dr. G. AmalaJothi Grace	Webinar	Taking Research Forward During the Pandemic	Participated	Loyola Institute of Frontier Energy (LIFE), Loyola College, Chennai.	20-May-2020
Dr. G. AmalaJothi Grace	Online Exam	Avogadro Test	Participated	Spoken Tutorial, IIT Bombay	18-May-2020

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Dr. G. AmalaJothi Grace	International Webinar	Bioinformatics in Microbiome Research & Climate, Biomes and India	Participated	St. Mary's College (Autonomous), Thoothukudi	17-May-2020
Dr. G. AmalaJothi Grace	Webinar	American College Chemistry Webinar Series-I	Participated	The American College, Madurai	15-May-2020 & 16-May-2020
Dr. G. AmalaJothi Grace	Webinar	Application of ICT in Chemistry for Under graduates	Participated	Stella Maris College, Chennai	14-May-2020
Dr. G. AmalaJothi Grace	Online Workshop	5 Day Free Online Workshop For Teachers	Participated	Universal Teacher's Academy, Puducherry.	14-May-2020 TO 18-May-2020
Dr. G. AmalaJothi Grace	Online Workshop	Mental Health and Psychological Consideration During Lockdown	Participated	St. Mary's College (Autonomous), Thoothukudi in association with Aadhi Foundation.	13-May-2020 & 14-May-2020
Dr. G. AmalaJothi Grace	Webinar	Psychological First Aid	Participated	Department of Psychology, St. Mary's College (Autonomous), Thoothukudi	11-May-2020
Dr. G. AmalaJothi Grace	Webinar	Role of us in Academic Planning and Execution in View of Covid-19 Pandemic and Subsequen5t Lock- down	Participated	K.G.R.L College (A) – Degree & PG Courses, Bhimavaram	09-May-2020
		Redefining Learning Spaces – Change	Participated	Colombo Plan Staff College	06-May-2020

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Dr. G. AmalaJothi Grace	Webinar	Agent in Educational Ecosystem			
Dr. G. AmalaJothi Grace	Online Certificate course	Elemental Arts: Evolution of Modern Periodic Table	Participated	Department of Science and Humanities, Sri Krishna College of Engineering and Technology, Coimbatore	01-May-2020 & 02-May-2020

BOARD OF STUDIES

The Board of Studies Meeting of the Department of Chemistry was conducted on 27th February 2021 with 2 External and 12 Internal members.

CERTIFICATE COURSES

The Department of chemistry offered Nutritional Food Science for third year students.

MOU

The Department has a life time MOU with KALPAKA

CHEMICALS PRIVATE LIMITED, 2/141, Puthiyamputhur Road, Nainarpuram Post, Thoothukudi.



HIGHER EDUCATION

21 students of 2018-2021 were joined for PG Chemistry in various colleges and 1 joined for B.Ed.

RANK HOLDERS



SHERLIN BLESSEY H – FIRST RANK SUPRIYA S - SECOND RANK JUDY AUXLINE – THIRD RANK

No. of Programme organised- 14 Staff Programme Participation – 139 Journal Publications - 1 Books Published – 8 Online Course -1 Reviewer -2 Resource Person - 2

