



**St. Mary's College (Autonomous)**  
Reaccredited with 'A+' Grade by NAAC (Cycle IV)  
Thoothukudi



**CRITERION III -RESEARCH, INNOVATIONS AND  
EXTENSION**

**3.1 Promotion of Research Facilities. Year: 2018-2023**



**3.1.1 The Institution's Research Facilities are frequently updated and there are well defined Policy for Promotion of Research which is uploaded on the Institutional website and implemented**

➤ **Research Report**

➤ **2022-2023**

On 30<sup>th</sup> May 2022 a National Conference on “Outcome Based Research: A Path to Innovation” was organised. Dr. T. Peter Amaladhas, Associate Professor of Chemistry, V.O.C. College, Thoothukudi was the resource person.

On 29<sup>th</sup> July 2022 a State Online Awareness Programme on IPR was organised. Mr. A. Seetha Raman, Examiner of Patents and Designs, Patent Office, Chennai was the resource person.

On 24<sup>th</sup> September 2022 online Quiz on “National Educational Policy–2020 was organised along with the Library Committee.

A National Online “Microbein Contest” was organised on 11<sup>th</sup> October 2022. Dr.G. Chelladurai, Assistant Professor of Zoology, GVN College, Kovilpatti was the Judge.

The Forum released the Bi-annual Multidisciplinary Journal “Marian Quest” on 7<sup>th</sup> November 2022. It was released by the Chief guest, Dr P. Sivasubramanian, Associate Professor of Geology, V. O. Chidambaram College, Thoothukudi. The first copy was received by the Principal Dr. Sr. A.S.J. Lucia Rose. A total number of 65 Faculty and Research Scholars with publications in Scopus, WoS-indexed journals, SCI-indexed journals, UGC Care Listed journals, Book Publications, Patent and the faculty who have done research consultancies were honoured with a memento and a cash award of Rs 500 on this occasion. Dr P. Sivasubramanian, the chief guest delivered a speech on “Significance of Research publications”. Research guides, HoDs, Research Scholars and PG students from research departments were the beneficiaries.

On 7<sup>th</sup> February 2023, an international webinar titled “Keys to Publishing in High Impact Journals” was held on the Zoom platform. The resource person for the webinar was Dr. Satyanarayana Parayitam, a Professor of Management and Marketing at Chariton College of Business, University of Massachusetts Dartmouth, USA. During the webinar, Dr. Parayitam emphasized the importance of writing quality papers to enhance knowledge and encourage communication. The webinar was attended by 135 participants from various fields, and the session was very interactive and well-received.

➤ **2021-2022**

An international webinar on ‘Systematic research Methodology – A Transformative Tool for Scientific Research’ was conducted on 22<sup>nd</sup> July 2021 in the Zoom Platform. Dr. P. Ravichandran, PhD (Ed), PhD (IT), Binary University, Malaysia was the resource person. Nearly 422 participants from various states (Assam, Uttar Pradesh, Gujarat, Delhi, Madhya Pradesh, Himachal Pradesh, Bihar, Puducherry, Sikkim and Goa) across the country and outside the country (Oman, Malaysia) participated in the webinar.

Marian Research Forum has organised the journal releasing ceremony of the Bi-annual Multidisciplinary Journal the ‘Marian Quest’ on 2nd November 2021. Dr. Sr. A.S.J. Lucia Rose, our Principal felicitated the event. Dr. K. Vinitha, our Librarian, gave an overview on Importance of Research Publications. The journal ‘Marian Quest’ was released by Dr. M. Tamilselvi, Associate Professor of Zoology, Dean of Research and Co-ordinator of DBT Star College Scheme, V.V.Vanniaperumal College for Women, Virudhunagar. The first copy was received by the Principal. Faculty and Research Scholars with publications in Scopus/ WoS indexed journals and the faculty who have done research consultancies through the Marian Research Forum were honoured with a memento and a cash award of Rs 500/-.

Dr. M. Tamilselvi, the chief guest delivered a lecture on “Strategy for promoting Re(search) and publications” in which she highlighted the importance of multidisciplinary research – the need of the hour and publications in today’s world. Research guides, HoDs Research Scholars and PG students from research departments were the beneficiaries. The lecture helped the audience to gain knowledge to launch into new ventures in the field of research.

Marian Research Forum and St. Mary’s Mathematical Research Forum jointly organized a workshop on Quality Research Proposal and Publication on 17<sup>th</sup> December, 2021. The chief guest Dr. Selvam, Assistant Professor of Geology, V. O. Chidambaram College, Thoothukudi was the chief guest.

The Chief Guest addressed the gathering on “Quality Research Proposal and Publication” and how one can enhance their profile by publishing their papers in SCI, HSCI and ESCI indexed journals. Research guides, H.O.D's, Research Scholars and PG students from research departments were the beneficiaries.

An International Webinar on Importance of IP in Scientific Research - An Overview on 1<sup>st</sup> March 2022 at 9.30 am in the Zoom Platform. Dr. Sreeram Krishnan, Sr. Manager, Scientific Affairs/IP Management, Sabinsa Corporation, Toronto, Ontario, Canada was the resource person.

Dr. P. J. Joslin, Research Coordinator welcomed the gathering. Dr. Sr. S. Kulandai Therese, Deputy Principal & Assistant Professor of Mathematics gave the Felicitation Address. Dr. Sreeram Krishnan highlighted the significance of patents, inventions etc. in scientific research. Nearly 370 participants benefitted through this webinar.

A One Day National Webinar On “Online Reference Management Tools for Manuscripts and Thesis” on 7<sup>th</sup> May 2022 at 2:30 pm through the Zoom platform. The resource person was Dr.M.Tamizhchelvan, Librarian, The Gandhigram Rural Institute, Deemed to be University, Gandhigram. The resource person shared his knowledge on Online reference management tools for manuscripts and thesis especially on free web-based tools and the functioning of social media tools like mendeley, zotero. Faculty members, research scholars and PG students were the beneficiaries.

#### ➤ **2020-2021**

Research forum along with Library committee organized a National webinar on the topic “Increasing media visibility in the research world using academic and social media” on 31<sup>st</sup> October 2020. Dr. M.Tamizhselvan, Deputy Librarian, Gandhigram Rural Institute Dindigal was the resource person. The audience got a deep insight into how to make themselves visible efficiently in the research world. More than 300 participants from all over India got benefitted.

The inaugural meeting of “Marian Research Consultancy” was held on 6<sup>th</sup> November 2020 through google platform and you tube live streaming. Dr. P.J.Joslin, Research Coordinator presented the overview of Marian Research Consultancy and introduced the faculty who have registered to undertake consultancy service in their areas of specialization in

research. Dr. Sr. A.S.J. Lucia Rose, Principal, rendered the Presidential address and Dr. Sr. C. Shibana, Deputy Principal offered felicitation. Dr. Joseph Madhavan, Dean of Research, Loyola College, Chennai delivered the inaugural address. The audience imbibed a deep knowledge regarding the need of consultancy and the emerging research in academic life.

Marian Research Forum conducted a one day International Webinar on ‘Theory Building Research’ on 12<sup>th</sup> March 2021 in the Google Meet Platform. Dr. Kabaly P. Subramanian, Faculty of Business Studies, Arab Open University, Oman, was the chief guest. He spoke about the necessity of theory and the need of linking academic works to practical works in a lucid style. The process of making a theory, methods and tools for its creation etc. were elaborately discussed. More than 200 academicians, scholars and students from Karnataka, West Bengal, Rajasthan, Telengana, Jharkhand, Odisha etc. participated and got an insight on theory building research.

‘A Hands on training on Sericulture’ and Inaugural function of the Mulberry sericulture unit was organised by the Research Forum in collaboration with Department of Zoology and Institution’s Innovation Council St. Mary’s College (Autonomous), Thoothukudi on 19<sup>th</sup> March 2021. Dr. Noble Morrison, Retired Scientist D, Research Extension Centre, Central Silk Board, Kolar, Karnataka was the chief guest for the inaugural function and the resource person for the training. Dr. Sr. A.S.J. Lucia Rose, Principal, inaugurated the Mulberry Sericulture Unit and delivered the presidential address. Dr. Sr. C. Shibana, Deputy Principal felicitated the function. The resource person highlighted the need for establishing sericulture units in India. He gave a clear idea about the types of silk worm and rearing techniques. The training was followed by planting of Mulberry saplings in the college premises. 110 undergraduate and postgraduate students of Department of Zoology were the beneficiaries

➤ **2019-2020**

A One Day National Conference on “Strategic Human Resource Management – A Global Perspective” was organised by the Research Advisory Committee, St. Mary’s College (Autonomous), Thoothukudi on 13<sup>th</sup> September 2019. Dr. Julius Ceaser, Assistant Professor of Commerce, St. Joseph’s College (Autonomous), Trichy inaugurated the conference and spoke about the importance of human resources for the betterment of the organisation. Dr. Catherine Nirmala, Head and Associate Professor, PG Department of Commerce, St. Agnes College (Autonomous), Mangalore chaired the technical session on HRM - A Global Perspective. She

spoke on the role of HR for the growth of companies in the worldwide perspective. Around 40 papers were presented and the paper presentation session was highly informative.

A National Workshop on “Writing Research Proposals for Funded Projects” was organised by the Research Advisory Committee, St. Mary’s College (Autonomous), Thoothukudi on 14<sup>th</sup> September 2019. Dr. Catherine Nirmala delivered a lecture on the topic “Nuances of Research Funding”. Dr. Arulmurugan delivered lectures on “Scientific Research and Analytics” and “Funding Agencies and Submission Protocols”. He also conducted a practical session on “Writing Research Proposal”. About 156 faculty members and research scholars from Our College as well as from various other colleges in and around Thoothukudi district participated in the workshop. The participants were given an exposure to various funding agencies and the methodology to write research proposal. The participants were also given hands on training on how to write research proposal to funding agencies.

A Two Day Workshop on “Google Tools for Science Aspirants” was conducted by the Research Advisory Committee of St. Mary’s College (Autonomous) for the benefit of the PG students of the School of Biological Sciences (Departments of Botany, Zoology and Microbiology), St. Mary’s College (Autonomous), Thoothukudi in the Botany Lecture Hall on 18<sup>th</sup> and 19<sup>th</sup> September 2019. Ms. M. Jothimani, Dean of Computing Sciences and Associate Professor of Computer Science and Sr. K. Reetha, Assistant Professor of Computer Science, St. Mary’s College (Autonomous) were the resource persons of the workshop. PG students from the departments of Zoology (19), Botany (22) and Microbiology (15) were the participants. The students were given hands-on training on various Google Tools. The students were given guidance to effectively use Google to create class rooms, design web pages, prepare spread sheets, create blogs, send group mails etc.

The Research Advisory Committee conducted a Two Day Workshop on “Digital Image Processing Using MATLAB” (Hands on Training) on 18<sup>th</sup> and 19<sup>th</sup> September 2019 for the I PG Students of the School of Computing Sciences. Dr. M. Willjuice Irudhyarajan, Head and Professor, Department of Electrical and Electronics Engineering, National Engineering College, Kovilpatti delivered a lecture on “Basic concepts of MATLAB” and gave hands on training on the basic concepts of MATLAB like Matrices and polynomials. Dr. L. Kalaivani, Professor, Department of Electrical and Electronics Engineering, National Engineering College, Kovilpatti addressed the students on the topic, “Concepts of Digital Image Processing”.

A One Day Workshop on “Interface between History and Literature” was organised by the Research Advisory Committee on 18<sup>th</sup> September 2019. The P.G. students of the School of Language and Culture (History - 28 and English Literature - 52) participated in the workshop. Dr. R. Rajappan, Retd. Professor of History, V. O. Chidambaram College, Thoothukudi was the resource person for the first technical session and the second technical session was led by Dr. Jockim, Assistant Professor of English, St. Xavier’s College (Autonomous), Palayamkottai.

A Two Day Workshop on “Google Tools for Science Aspirants” was organised by the Research Advisory Committee on 18<sup>th</sup> and 19<sup>th</sup> September 2019. The PG students from the School of Physical Sciences (Departments of Physics and Chemistry) attended the workshop. Ms. R. Naveena Devi, Assistant Professor of Computer Science and Ms. S. Aafrin, Assistant Professor of Electrical and Electronics Engineering, Dr. Sivanthi Aditanar College of Engineering, Tiruchendur trained the participants on various Google Tools.

The Research Advisory Committee organised a Two Day Workshop on “Web Tools for Business” on 18<sup>th</sup> and 19<sup>th</sup> September in the Conference Hall. Ms. S. Vasudevi, Master of Engineering graduate, Technical skill trainer for various colleges and professional trainer from Thoothukudi was the resource person. On the first day, Ms. S. Vasudevi gave a detailed view about Gmail and the options available in Google like Gmail formatting, inserting images, creating confidential and group mailing, Google calling, Google drive and its storage capacity, Google mail options, carbon copy and Google applications. She explained about the Google forms that can be used to obtain feedback from the customers in the business point of view. She also gave a detailed lecture on Google classrooms and the method to create Google group for assignment preparation. She also explained about Google Docs, Google Blogs, Google Contacts, Google Hangouts, Jam Board and Google Video Duo Calling.

The Research Advisory Committee submitted the Research Proposal under the Broad area on Marine Studies and Research Hub and the Project entitled “Capacity Building Programme on Marine Ecosystem and Coastal Livelihood for Sustainable Development” to the UGC under the Scheme for Trans-disciplinary Research for India's Developing Economy (STRIDE) on 30<sup>th</sup> September 2019.

The Research Advisory Committee under the able guidance of the co-ordinator, Dr. Sr. A. Arockia Jenecius Alphonse, works towards creating research ambience in the campus. 1 national conference, 5 national workshops and 2 national seminars were organized on various

topics with eminent researchers as resource persons who motivated and created awareness among faculty members, research scholars and students.

➤ **2018-2019**

The department of Zoology in collaboration with Marian Research Forum organised a meeting on 25<sup>th</sup> June 2018. Dr. Antony Johnson, Scientist and Head of the Department of Habitat Ecology, Dehradun, Govt. of India gave a lecture on Wild Life Reserves and Conservation - Challenges. The Department of Library and Research Forum jointly organised a National Seminar on 20<sup>th</sup> July, 2018 on the topic Fostering Transparency: Routing out Plagiarism A to Z. Dr. S. Srinivasaragavan, Prof. and Head of Bharathidhasan University, Trichy, delivered the Inaugural and Keynote Address on the topic Academic Integrity and Publication ethics. Technical Sessions were chaired by three eminent resource persons viz., Prof. Melchias Gabriel, Dr.L.Radha and Ms. Sujatha.

The Research Forum also organized a workshop on Hands on Training on Data Analytics Using SPSS on 24<sup>th</sup> & 25<sup>th</sup> August 2018. Prof. Shahul Hameed, Asst. Head & Professor. Dept of Business Administration, Sadhakathullah Appa College, Tirunelveli and Dr.Thangaraja, Dept. of Business Administration, SCMS School of Technology & Management, Cochin, Kerala successfully trained the PG and Research scholars on Data Analytics using SPSS. The students participated enthusiastically in the workshop and greatly benefited by it. In September 2018, the forum created new mail id with extension edu.in for the faculty members to enable free access to view documents related to research work through the college website.

On behalf of the Research Forum, a ceremony for releasing the 'Marian Quest' journal was organized on 24<sup>th</sup> January 2019 in the Pearl Conference Hall, St. Mary's College, Thoothukudi. Dr. Mrs. Beula, Asst. Prof of Botany welcomed the gathering. Dr. Sr. A. S. J. Lucia Rose felicitated the gathering. Rev. Sr. Flora, was the guest of honour. Dr. T. Peter

Amaladhas, Associate Prof of Chemistry, V. O. C College, Thoothukudi inaugurated the function and released the seventh volume of Marian Quest Journal and our Principal, Rev. Dr. Sr. Lucia Rose received its first copy. He delivered the Key note Address and delivered a lecture on 'Recent Developments in Research'. His talk created awareness on how to apply for research projects and enlightened us to update our research knowledge. It was really an informative, interesting and inspiring speech. All the Head of the Departments, P.G students and M.Phil scholars were present for the function.



*Lucia Rose*  
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