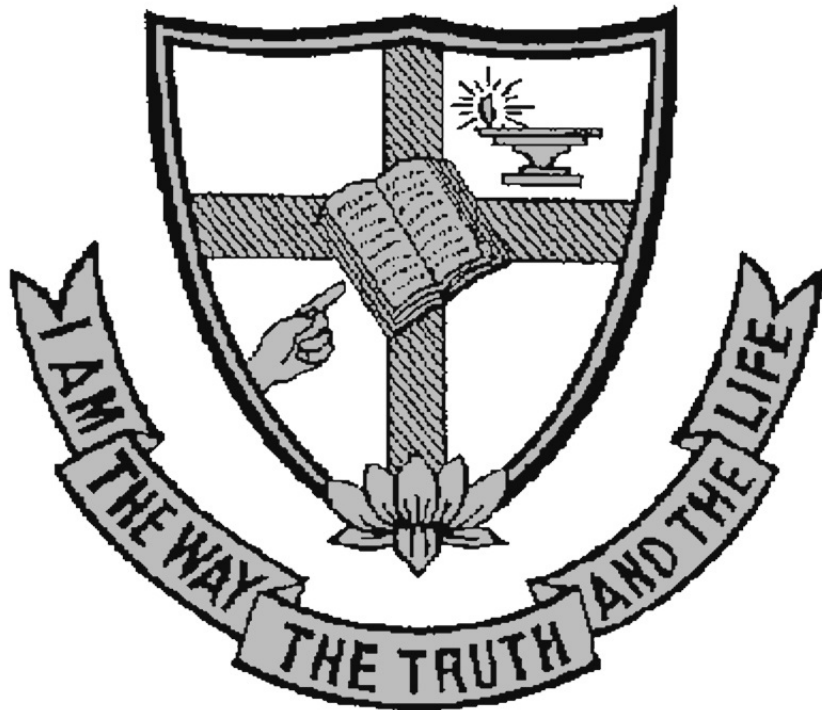


**MAR THOMA COLLEGE  
TIRUVALLA**



**ANNUAL REPORT 2021-'22**

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“The roots of education are bitter, but the fruit is sweet”. – **Aristotle**

Mar Thoma College, Tiruvalla established in the year 1952, has completed an illustrious period of seventy years in the field of higher education. The beginning of the College was very humble with just 250 students and twelve faculty members and over the years owing to the dedicated efforts of the staff and the Management the College has become a premier centre of learning in the State and in the Country. Having obtained the unique distinction of being one of the first accredited Colleges in India and the first in Kerala, the College has also been credited with the honour of being one among the first 22 Colleges in India to be re-accredited in the fourth cycle of accreditation by NAAC. The College has earned commendable achievements including obtaining the 80<sup>th</sup> position in All India NIRF 2021 ranking and ISO 9001:2015 certification. At this moment of pride and glory, we gratefully acknowledge and appreciate the pain and tears of our founding fathers particularly that of His Grace the Most Rev. Dr. Juhanon Mar Thoma Metropolitan, Rt. Rev. Dr Mathews Mar Athanasius Episcopa and Sri. K. K Kuruvilla. During this period nearly eighty thousand students have gone out of the portals of this institution to find a meaningful life in the world. The College, guided by the Grace of God Almighty, and our eminent leadership and strengthened by the aspirations of many generations, is gearing up in the context of New Educational Policy 2020.

The College is in its 70<sup>th</sup> year of inception and has been celebrating its Saphthathi through various programmes, under seven major heads. When the activities of the Saphthathi celebrations began, the Manager of the College was His Lordship Rt. Rev. Dr. Euyakim Mar Coorilos Suffragan Metropolitan. His Lordship Rt. Rev. Thomas Mar Timotheos Episcopa was assumed the Manager of the College on 1<sup>st</sup> March 2022.

On this auspicious occasion of the 70th College Day, may I present before, His Lordship Rt. Rev. Dr. Thomas Mar Theethos Episcopa, the president of this meeting, Dr. Sarin P, IAAS, Former Deputy Accountant General of Karnataka, all other dignitaries and students in this meeting, the Annual Report of the College for the academic year 2021-2022.

## 1. COURSES OFFERED

The College offers twelve Undergraduate (BA/BSc/B. Com) programmes, eleven Post-graduate (MA/MSc) Programmes and seven Doctoral Degree programmes. The MSc programmes in Microbiology and Biotechnology are offered under self-financing streams. Out of fifteen Departments of the College, seven Departments are accredited Research Centres of Mahatma Gandhi University, Kottayam. In addition to the UG, PG programmes and Certificate Courses, the College offers eighteen Supplementary Enrichment Programmes in various areas.

## 2. AWARDS/RECOGNITIONS TO THE INSTITUTION

The college has been ranked in the 80<sup>th</sup> position in All India NIRF Ranking 2021. The college was positioned in 9<sup>th</sup> under the head “Best Value for Money by India Today Ranking in 2021. The college has been presented with Vanamitra Award from the Kerala Government, instituted by the Kerala Wild Forest Department.

## 3. MAIN EVENTS

On 7<sup>th</sup> July, the Ministry of Forest and Wildlife, Govt. of Kerala has approved the Miyawaki Vanam Or Vidyavanam Project of the College. Mr. A. K. Saseendran, Minister of Forest inaugurated the Project in the presence of Mr. Mathew T. Thomas, MLA. The five cents of land were identified below the old Principals Quarters and given to the project with the consent of the Manager His Lordship Rt Rev Dr Euyakim Mar Coorilos Episcopa. The Saphthathi Celebrations of the College was inaugurated by the Honourable Governor of Kerala Shri. Arif Mohamed Khan in the presence of His Lordship Rt Rev Dr Euyakim Mar CoorilosEpiscopa, the Manager of the College on 10<sup>th</sup> July 2021. The supreme Head of the Mar Thoma Syrian church His Grace The Most Rev Dr Theodosius Mar Thoma Metropolitan delivered the commemoration address. Sri. Anto Antony, MP released the Saphthathi Logo. Sri. Mathew T Thomas, MLA launched Saphthathi Projects. The new website of the College [www.mtct.ac.in](http://www.mtct.ac.in) was launched on 29<sup>th</sup> July by Rev. K. G Joseph, Sabha Secretary, MarThoma Church. Rev Shiby Varghese, Vicar, Kuttapuzha Jerusalem Mar

Thoma Church laid foundation stone for NSS Home for Homeless Project “MuralikkoruVeedu” at Anjilithanam on 13<sup>th</sup> December.

A Job Fair was conducted in the College in association with the Kerala Knowledge Mission. Smt. Veena George, Minister of Health inaugurated the event on 20<sup>th</sup> December 2021. Dr Divya S Iyer, District Collector was the chief guest. Sri Mathew T Thomas MLA presided over the meeting. Around 100 companies visited our campus and 700 job aspirants attended offline/online interviews. On 23<sup>rd</sup> December, Seven Day NSS Camp was inaugurated by Mr. John Varghese P, Tahalsidar, Tiruvalla Municipality. The reunion of 1968-1971 UG Golden Jubilee Alumni Batch. Adv. Suresh Koshy instituted an endowment of Rs. 25,000/- for NSS best volunteer award on 28<sup>th</sup> December 2021. The meeting instituted Mr. M R Chandran Memorial endowment for best footballer and Prof George Abraham Memorial endowment for Zoology students. Mr K T Philip, Ernakulam of this batch has donated a drum set of worth Rs. 1 lakh. On 30<sup>th</sup> December, Career Guidance Cell organised a Webinar on UK based Career opportunities in association with T and T Global Recruitment limited. Mr.Tomy Sebastian was the resource person. 75 students attended. As an Extension activity, around 20 school students visited our library for a Leadership Training Programme. It was arranged by Mr. Mathew Koshy, VishwaBharati Study Circle, Kuttapuzha on 30<sup>th</sup> December. Dr Varughese George was the resource person. Launching ceremony of BhoomithraSena Club, on 7<sup>th</sup> January, was held. Dr Abhilash R, Dept. of Zoology, Christain College Chengannur was the chief guest.

#### 4. RESULTS OF THE UNIVERSITY EXAMINATIONS:

The college secured an aggregate of 71% at the Undergraduate (UG) level and 60% at the Postgraduate (PG) level. The break-up of the result is as follows:

<b>Subject/Streams (UG)</b>	<b>Percentage</b>
English	<b>91</b>
Economics	<b>55</b>
Political Science	<b>55</b>
History	<b>71</b>
Mathematics	<b>58</b>
Physics	<b>82</b>
Chemistry	<b>79</b>
Botany	<b>81</b>
Botany (Voc)	<b>78</b>
Zoology	<b>42</b>

Commerce – ComputerApplication	74
Commerce – Taxation	79

Subject/Streams (PG)	Percentage
English	63
Economics	40
Mathematics	40
Physics	54
Chemistry- Pure	86
Chemistry- Analytical	70
Botany	35
Zoology	56
Microbiology	75
Biotechnology	58

The College obtained 93% result for UG Common course Malayalam and 98% for Hindi.

#### 5. University Ranks and ‘A’ Plus

The following students obtained ranks and A Plus grades in the Postgraduate Examinations. The College congratulates all the rank and A+ holders. We wish all of you a bright and fruitful year ahead. We appreciate all the faculty members and parents for their support and encouragement.

Sl. No.	Name	Department	Rank/Position
<b>P.G: Rank Holders</b>			
1	Silpa Sara Philip	Mathematics	10 <sup>th</sup> Rank
2	Nimmy Thomas	Zoology	3 <sup>rd</sup> Rank
3	Badisha Banu T.C	M.Sc Chemistry	3 <sup>rd</sup> Rank
4	Gayathry Sreekumar	M.Sc Analytical Chemistry	1 <sup>st</sup> Rank
5	Jesna Sara Shaji	M.Sc Analytical Chemistry	3 <sup>rd</sup> Rank
6	Sandeep S. Pillai	M.Sc Analytical Chemistry	9 <sup>th</sup> Rank
7	Gowri J. S	M.Sc Biotechnology	6 <sup>th</sup> Rank
8	Athira Anil	M.Sc Microbiology	10 <sup>th</sup> rank
<b>P.G: A+ Holders</b>			
1	Rajalekshmi R	Department of Mathematics	

The following students obtained ranks and A Plus at the Undergraduate Examinations:

Sl. No.	Name	Department	Rank/Position
<b>U.G : Rank Holders</b>			
1	Anjali R	B.Sc Botany Model II, Food Microbiology	3 <sup>rd</sup> Rank
2	Anjana R	”	4 <sup>th</sup> Rank
3	Sruthi S.	”	5 <sup>th</sup> Rank
4	Aisha Hameed K A	”	6 <sup>th</sup> Rank
5	Harriet Thomas	”	8 <sup>th</sup> Rank
6	Akshaya Radhakrishnan	”	10 <sup>th</sup> Rank
<b>U.G : A + Holders</b>			
1	Stephine Eliza Varghese	Mathematics	A+
2	Emi Susan Varghese	Mathematics	A+
3	Riya Elizabeth Jacob	Mathematics	A+
4	Ananthu Raj C.M	Physics	A+
5	Athira M .Nair	Physics	A+
6	Jithu P James	Physics	A+
7	Jyothilakshmi R	Physics	A+
8	Namitha. S	Physics	A+
9	Rajalekshmi S	Physics	A+
10	Vidu Krishnan S	Physics	A+
11	Joshua Abraham Chekkulathu	English	A+
12	Jeenu Jose	English	A+
13	Bhagyalakshmi K.S	Zoology	A+
14	NeethuMaryChacko	B.Com: Finance &Taxation	A+
15	Aiswarya V.	Chemistry	A+
16	Archana R. Nath	Chemistry	A+
17	Ginu Sara Varghese	Chemistry	A+
18	Grace Theresa Jose	Chemistry	A+
19	Irene Elsa Daniel	Chemistry	A+
20	Jayani V.K.	Chemistry	A+
21	Jismin Philip	Chemistry	A+
22	Snehamol K. Shaji	Chemistry	A+

## 6. NET / JRF / SET holders

The following students have cleared NET/JRF during this academic year

Sl No.	Name	Subject	Remark
	Krishna Priya P	M.Sc Physics, 2019-2021	GATE 2022
	Ginu Sara Varghese	B.Sc Chemistry, 2018-2021	JAM Exam 2021
	Gayathry Sreekumar	Chemistry	Qualified GATE during the academic year 2021-22

	Shebin George Stephen	Chemistry	Qualified GATE during the academic year 2021-22
	Simi Asma Salim	B. Sc Model II (Food Microbiology) 2014-2017	Qualified CSIR JRF with 88 <sup>th</sup> Rank in 2021 and in 2020 qualified ICAR - NET
	Anu D. Raj	M.A English	Cleared NET Exam
	Chippy Uthaman	M.Sc Biotechnology	Cleared CSIR NET Exam in Life Science, June 2021 with Rank 175

## 7. STUDENT ACHIEVEMENTS

- Mr Vishnu Ajayan, 3<sup>rd</sup> B.A. Economics got best male NSS volunteer award for the year 2020-2021 of Kerala State
- Ms. Irene Ann Samuel, 5<sup>th</sup> Semester B.Com Finance and Taxation, won the second prize in a video making competition on the theme “Covid 19 Awareness” organised by the Unnath BharathAbhiyan at the Regional Coordinating Institution Level (IISER, Thiruvananthapuram)
- Mr. Nithin Anil, Final BA Political Science has got an achievement “Spot Dubbing for 20 Female Artists in One Minute” and his name mentioned in the America Book of Records.
- Drawings of Ms.Janvy Mary Sam, 2<sup>nd</sup> B.A. English Language and Literature has been approved by the Asia Book of Records and Indian Book of Records for Maximum portraits of Bishops drawn by an individual. She drew 30 pencil portraits of Bishops of Malankara Syrian Church from 1665 to 2021 on 15 A4 size sheets.
- Ms.Aswathy Ashok, PG student, Bio-Science Department published an article in a journal.
- Mr. Shine Abraham Mathew, MSc Data Analytics got Principal’s Award for Excellence as Best Computer Programmer.

Other student achievement:

	Name of the Student	Department	Achievement
1.	Caron Jacob	B.Com Model I	Passed CPT – CA foundation course
2.	Ritty Ani	Commerce	Passed CPT-CA Foundation course

3.	Caron Jacob	Commerce	Passed CPT-CA Foundation course
4.	SarathBabu	Physics	First place in Karate, Kottayam District Olympic games 2022. secured first place in MG university Intercollegiate Karate championship
5.	Soniya Joseph	Chemistry	qualified IELTS Examination during the academic year 2021-22
6.	Alex John Puthethu	English	Two publications in peer-reviewed journal and a chapter in a book.
7.	Jyothis Anne George	English	Publication in international Journal of English Literature, Language and Criticism published by Authurs press, New
8.	Namitha Mohan	English	Publication of an article in a peer-reviewed journal
9.	SheethalTresa	English	contributing a chapter in the book Trauma Literature: Reflections and Ruminations published by Authurs press, New Delhi.
10.	Surya Babu S.	Research Scholar, Zoology	Publication the book 'PokkaliKrishi' Published by: the Kerala State Institute of Languages during the academic year 2021-22.
11.	Ruby Thomas	Research Scholar, Zoology	Publication three research articles in peer reviewed journals and one chapter in the book- New Visions in Biological Sciences during the academic year 2021-22.
12.	Deepika A.S,	Research Scholar, Zoology	Publication one research article in Journal of Indian Hydrobiology during the academic year 2021-22.
13.	U/O.Sneha	Attended Pre Republic-Day Camp – III and National EkhBharathSreshtaBharatha Camp (EBSB)	
14.	Cdt. Akhil Rakesh	Secured Chief Minister Scholarship for the best cadet in Kerala	
15.	Cdt. Pooja Purushothaman	Secured Chief Minister Scholarship for the best cadet in Kerala	
16.	Cdt.Joshua Raju George	Secured Second Prize in Best cadet Competition organized by the NCC unit of St.Peters College, &Kolencherry. First Prize in Best Cadet Competition organized by the NCC unit of Baselious College, Kottayam.	
17.	Cdt. Albin Roy	Second Prize in Digital poster making competition organized by the 10(K) Bn. NCC for the cadets of K&L Dte. Bronze medal in National level quiz competition organized by the NCC unit of Thakur College of Science & Commerce, Mumbai	



## 8. STUDENT STRENGTH

<b>Stream</b>	<b>No. of Students</b>
First Year BA/BSc/BCom	435
Second Year BA/BSc/BCom	406
Third Year BA/BSc/BCom	457
First Year MA/MSc	134
Second Year MA/MSc	131
I MSc Self-Financing	41
II MSc Self-Financing	44
<b>Total</b>	<b>1648</b>
PhD	66
<b>Grand Total</b>	<b>1714</b>

## 9. TEACHING ANDNON-TEACHING STAFF

<b>Stream</b>	<b>Number</b>
Teaching Faculty (Aided)	60
Teaching Faculty (Self Financing)	5
Guest / FIP Faculty	27
Non Teaching	35
Management Staff	5
Self Financing (NT)	2
Computer Centre	2
<b>Total</b>	<b>136</b>

## 10. RETIRING STAFF MEMBERS

The following members of Teaching and Non-Teaching staff retire from active service in the College this year.

Teaching Staff:

- Prof. Preetha Rachel George, Head of the Department of Statistics

(Joined initially in the year 1989 and is retiring in March 2022. Total years of service: 33)

- Dr. Nigi A.J, Head of the Department of Physical Education  
(Joined in the year 1993 and is retiring in May 2022 after 29 years of service)

Non-Teaching Staff:

- Mr. K. T. Abraham, Library Assistant  
(Joined in the year 1990 and is retiring in March 2022 after 32 years of service)
- Mr. Varghese Jacob, Library Assistant (Botany)  
(Joined in the year 1995 and is retiring in May 2022 after 27 years of service)
- Mr Sajan Varughese, Librarian  
(30<sup>th</sup> September: Mr Sajan Varughese, Librarian of the College retired after 31 years of service.)

## 11. OBITUARY

- Padmabhushan His Grace The Most Rev. Dr. Philipose Mar Chrysostom Valiya Metropolitan, Former Manager of the College
- Prof. A. T. Samuel, Former Faculty of English
- Mr. T.C. Varghese (95), Former staff of the College
- Mr. Godavarma, a distinguished alumni of the College

### Condolence Meeting

- The Governing Council of the College arranged a condolence meeting in memory of late Padmabhushan His Grace The Most Rev. Dr. Philipose Mar Chrysostom Mar Thoma Valiya Metropolitan on 28<sup>th</sup> May 2021. Tirumeni served the Manager of the College for 13 years.
- An online condolence meeting in memory of Late Prof. A. T. Samuel was arranged on 11<sup>th</sup> September 2021 through the Google meet.

## 12. CURRICULAR AND CO-CURRICULAR ACTIVITIES

### Reopening

- The College reopened after summer vacation on 1<sup>st</sup> June 2021. An opening assembly was conducted through online mode. Rev. Dr Joe Joseph Kuruvilla, Director,

Thomas Mar Athanasius Institute of Counselling was the chief guest. Classes were conducted through online mode.

### **Chapel Service**

- The regular activities of the College on working days begin with morning worship in the College Chapel under the leadership of MTSA.

### **Environment Day Celebrations**

- The World Environmental Day was observed on 5<sup>th</sup> June 2021. The programme arranged by the NCC unit of the College was inaugurated by Ms. Bindu Jayakumar, the Chairperson, Tiruvalla Municipality. The retired/retiring staff of the College Dr Mohan Varghese, Dr Koshy John, Sri. Sajan Varughese and Sri. John Mathew was honoured and they planted tree saplings.

Dr Mahesh Mohan, Asst. Professor, school of environment science, MG University delivered a lecture in the programme arranged by the Chemistry Association. Mr Abju K. Arjun, Range Forest Officer, Thenmala Division delivered a lecture on “Ecosystem Restoration” for the students of Botany Department.

### **Blood Donation Day**

- The Blood donation Day was observed on 14<sup>th</sup> June 2021. The N.C.C Unit of the College arranged a programme. Colonel M. S. Sachdev, CO, 15<sup>th</sup> Kerala Battalion was the chief guest.

### **Reading Day**

- Reading Day was observed on 19<sup>th</sup> June 2021 by the Department of English. Shri. Rajeev G, Asst. Prof. of English, N.S.S Hindu College and Sri Sajan Varghese were the resource persons. They organized a reading week. Dept. of Chemistry also arranged programmes and reading week closing ceremony was held 28<sup>th</sup> June.

### **International Yoga Day**

- The international Yoga Day was observed on 21<sup>st</sup> June,2021. TheNCC Unit, NSS unit, and EBSB club organised different online activities. Mr. Sudeesh Kuma N, Director, Pytric School of Yoga Tiruvalla was the resource person for the programme of NCC and Dr Remya for N.S.S.

### **International Day Against Drug Abuse and Illicit Trafficking**

- International Day Against Drug Abuse and Illicit Trafficking was observed on 26<sup>th</sup> June 2021 by the Anti Drug Cell of the College. Three programmes were arranged namely Online Oath-Taking, Online Anti-Drug Awareness Quiz and Intra-collegiate Poster Competition

### **Sixty Ninth Commemoration Day & Inauguration of Saphthathi Celebrations of the College**

- The 69<sup>th</sup> Commemoration Day of the College was celebrated on 10<sup>th</sup> of July, 2021 through the online mode. Rev. Joe Joseph Kuruvila led the Commemoration Day service. The Saphthathi Celebrations of the College was inaugurated by the Honourable Governor of Kerala Shri. Arif Mohamed Khan in the presence of His Lordship Rt Rev Dr Euyakim Mar Coorilos Episcopa, the Manager of the College. The supreme Head of the Mar Thoma Syrian church His Grace The Most Rev Dr Theodosius Mar Thoma Metropolitan delivered the commemoration day address. Sri. Anto Antony, MP released the Saphthathi Logo. Sri. Mathew T Thomas, MLA launched Saphthathi Projects. Prof. P. J. Kurien, Former Deputy Chairman of Rajya Sabha, Mrs. Bindu Jayakumar, The Chairperson, Tiruvalla Municipality, Mr. Blessy Ipe Thomas, Film Director & Screenwriter, Dr Reginold Varghese, Ward Councillor and Dr K. T. Philip, Treasurer of the College offered felicitations. Prof. Letha P. Cherian served as the Convenor of the programme.

### **Pi ( $\pi$ ) Day**

Observed PI Day on 22<sup>nd</sup> July 2021 by Department of Mathematics

### **World Nature Conservation Day**

Observed World Nature Conservation day on 28<sup>th</sup> July 2021 by NSS Unit of the College.

### **New Website**

The new website of the College [www.mtct.ac.in](http://www.mtct.ac.in) was launched by Rev. K. G Joseph, Sabha Secretary, MarThoma Church on 29<sup>th</sup> July 2021.

### **Convocation Ceremony – Academic Enrichment Programme**

- The convocation function of the academic enrichment programme for 2020-2021 and inauguration of AEP for the year 2021-2022 was organised on 12<sup>th</sup> August 2021. Dr Sreejith C.M, Controller of Examinations, MG University, Kottayam delivered the

Convocation address. Lt. Prof. Raison Sam Raju served as the Director. The director for the year 2021-22 is Dr Antu Annam Thomas.

### **Independence Day Celebrations**

- The 75<sup>th</sup> Independence Day celebration was held on 15<sup>th</sup> August 2021. The flag hosting and ceremonial parade were held under the auspices of the NCC unit of the college under the leadership of Lt. Prof. Raison Sam Raju. Principal Dr. Varughese Mathew delivered the Independence Day address. The NCC Unit, the NSS Unit and EBSB club conducted different programmes. NSS organised a webinar titled “Beauty of Independence”. Dr Jiji Paul, Associate Professor, MD College, Pazhanji was the resource person. Also, NSS volunteers took Anti-Dowry Pledge.
- UBA Cell of the College arranged a programme to felicitate Ms. Irene Ann Samuel and her teammates for winning the second prize in the video making competition on the theme “Covid 19 Awareness” organised by UnnathBharath Abhiyan, Regional Coordinating Institution – IISER, Thiruvananthapuram.

### **Alumni Family Get-together**

- The Global annual family get-together of the alumni of the College was held on 15<sup>th</sup> August 2021 through a virtual platform. The meet was inaugurated by the Alumnus of the College, Shanti Swarup Bhatnagar Awardee Prof. (Dr) George Thomas K, IISER, Thiruvananthapuram and delivered the ke note address.

### **Onam Celebration**

- The Onam celebration was conducted on 26<sup>th</sup> August 2021 through the online mode. Interdepartmental Online competitions under the title ‘Olam 2021’ was conducted by the Best Arts. Mr. Tharun Moorthy, Film Director was the chief guest. Actors Joju George, Kottayam Ramesh, Kailash, HareeshPeradi, BinuPappu, Sminu and Sanju Sivaram felicitated the programme through online.

### **Teachers Day**

- Teachers Day was celebrated by the Department of Chemistry on 6<sup>th</sup> September 2021.

### **Hindi Diwas Day**

- Hindi Diwas was observed on 14<sup>th</sup> September 2021.

### **World Ozone day**

- World Ozone day was observed on 16<sup>th</sup> September 2021 by the Department of Chemistry. Dr. Gurumurthy Hegde was the resource person. The students of Chemistry Department had also conducted an inter departmental poster making and photography competition in connection with the event.

### **Gandhi Jayanthi Celebrations**

- The NSS Observed Gandhi Jayanthi on 2<sup>nd</sup> October 2021 and arranged cleaning programmes.

### **Space Week Celebrations**

- The Department of Physics observed space week celebrations on 4<sup>th</sup> October 2021 and was inaugurated by Dr. Shyama Narendranath, ISRO scientist.

### **International Mole Day**

- International Mole Day was celebrated by department of Chemistry on 23<sup>rd</sup> October 2021 through online mode. A PowerPoint presentation contest was conducted on mole concept in which a topic was given to each class and students made power point presentations on each topic.

### **Commencement of 1<sup>st</sup>DC classes & Induction Programme.**

- The opening assembly for first UG programmes & Inauguration of Induction Programme was conducted 27<sup>th</sup> September 2021. His Lordship Rt. Rev. DrEuyakim Mar Coorilos SuffraganMetropolitan inaugurated the Programme. Rev. Dr. Abraham Zachariah K, Director, Counselling Department, Mar Thoma Church, Chengannur-Mavelikkara Diocese delivered keynote address. The Induction programme was conducted from 27<sup>th</sup> September 2021 to 4<sup>th</sup> October 2021. Dr. Ajesh K. Zachariah, Mr. NidhinRaj, IPS, Mr.Nirmal Ousepachen IAS, Brigadier MD Chacko, Mr. Vineeth T. Kurup, Mr. Nandhu Krishna and Allen Kannattu were the resource persons. Dr Susan Thomas served as the convener and Prof. Agney G.K served as the Course Co-ordinator.

### **Bridge Courses**

- All departments have successfully conducted bridge courses.

### **National Unity Day**

- National Unity day was observed on 31<sup>st</sup> October 2021.

### **National Energy Conservation Day**

- The Department of Physics observed National Energy Conservation Day on 13<sup>th</sup> December 2021. The department published a survey report of energy audit on Energy Utilization and various energy conservation methods to the public.

### **Kerala Piravi day**

- 1<sup>st</sup> November: Kerala Piravi day was observed and a programme was arranged in the Open air stage. Dy Shiny Thomas was the resource person.

### **World Science Day: 10<sup>th</sup> November**

- 22<sup>nd</sup> November: Voters Enrolment Awareness Programme was arranged by NSS. Mr. John Varghese P, Tahsildar, Tiruvalla Municipality was the chief guest.
- 24<sup>th</sup> November: NSS arranged a Career Oriented Programme “Attracting and retaining Youth in Agriculture” in association with ICAR, KrishiVigyan Kendra, Thadiyoor
- 24<sup>th</sup> November: As part of the Sapthathi Year of the College, NSS unit launched a project named EBBOT (EnteBhoomikkumBhavikkum Our Thanal) which aims to distribute (at least 1000) tree saplings to students and staff on special occasions like birthday, wedding anniversary etc. The project was inaugurated by the principal and the first tree sapling was planted in the campus on 24<sup>th</sup> October 2021, as the Manger of the College His Grace Rt Rev Dr Euyakim Mar CoorilosSuffragan Metropolitan completed His Grace Sapthathi Year on 24<sup>th</sup> November and entered into 71<sup>st</sup> year on 25<sup>th</sup> November.
- 2<sup>nd</sup> December: Adv. OmalloorSankaran, District Panchayat President inaugurated District Level YIP Idea Generation. Dr DivyaS Iyyer IAS, District Collector, Pathanamthitta, was the chief guest.

### **World Aids Day**

- The World Aids Day was observed on 1<sup>st</sup> December 2021 by Bio-Science department. An awareness programme was also arranged.

- 2<sup>nd</sup> December: NSS observed National Pollution Day. Pledge was taken and Dr Raju Thomas K, Dept. of Zoology was the chief guest.

#### **International Human Rights Day**

- International Human Rights day was observed on 11<sup>th</sup> December 2021 and programmes were arranged by the Department of Political Science. Adv P Biju was the chief guest.

#### **National Mathematics Day**

- National Mathematics Day Celebration was observed on 18<sup>th</sup> December 2021 and arranged a special lecture.

#### **Christmas Carol**

- The College Christmas Carol service under the leadership of the College Choir was held at 6 PM on 22<sup>nd</sup> December 2021. Very Rev. George Mathew, Senior Vicar General of Mar Thoma Syrian Church, delivered the Christmas message. Prof. Sonia Anna Zachariah, Department of Botany served as the convener.
- Christmas day Celebration of Chemistry Association was conducted on 24<sup>th</sup> December 2021. Dr. Shiny Thomas, Assistant Professor, Department of Malayalam gave the Christmas message.

#### **Opening Assembly for 1<sup>st</sup> PG Students & Orientation Class**

- Opening assembly for First P.G students was held on 3<sup>rd</sup> November 2021. PG association was inaugurated by Shri. Jacob Punnoose, IPS on 18<sup>th</sup> December 2021 and Mr. Sunil D Kurivilla led a motivation cum orientation class.

#### **Republic Day Celebration**

- The Republic Day celebration was held on 26<sup>th</sup> January 2021. The flag hosting and ceremonial parade were held under the auspices of the NCC unit of the college. The Principal Dr Varughese Mathew delivered the Republic Day address.

#### **Annual Alumni Meeting**

- The annual meeting of the alumni association of the College was scheduled on 26<sup>th</sup> January 2022. But the meeting was postponed, due to the 4<sup>th</sup> wave of Covid 19 and its restrictions. It will be conducted during summer vacation.



### **Cancer Day**

- The Cancer Day was observed on 6th February 2022 through online mode. Dr. Sreedevi S. Medical Officer NHM Ayush, PHC Cherukole was the resource Person and she delivered a lecture on the topic “Jeevitha Shailiyum Bhashana Rithiyum”.

### **National Science Day Celebrations**

- The National Science day was observed on 28<sup>th</sup> February 2022. In the programme arranged by the Department of Physics, Dr. Sachin P.C., Assistant Professor, Fatima Matha National College, Kollam, delivered an Invited Talk on “*Sky and Beyond.*” Students participated in Power Point Presentations on relevant topics related to science.

### **International Women’s Day**

- The International Women’s Day was celebrated on 8<sup>th</sup> March 2021. The programme was arranged by the Women Empowerment Cell in association with Women Cell. Mrs. Omana Mathew, Secretary, Theological Literature Council was the resource person and delivered a talk on “Gender Equality for a sustainable development”.

### **Peace Rally**

- March 11: Peace rally on the basis of Russia- Ukraine war
- March 11: Signature campaign. # SAY NO TO WAR

### **Golden Jubilee Reunion of 1968-71 Degree Batches**

- The 1968-71 Degree batches arranged their Golden Jubilee reunion on 28<sup>th</sup> December 2021. Prof. Prasad Kodyattu was the convener.

### **College Union Election**

- The College Union election for the year 2021-2022 was conducted peacefully in Parliamentary mode. Mr. Jibin Mammen was elected as the Chairperson of the College Union. Prof. Vishnu Namboothiri K M was the Staff Advisor of the College.

### **13. IQAC**

The Internal Quality Assurance Cell (IQAC) of the College is functioning well under the co-ordinator Dr Susan Thomas, Department of English. Prof. K. M. Vishnu Namboodiri, Dept. of History and Dr Nebu John, Department of Chemistry are serving as the joint co-

ordinators of IQAC. Dr. Nebu John is also serving as the SAAC co-ordinator of the College. The IQAC is giving training to the faculty members and office staff of the college in different matters. In the beginning of the academic year, plan of action of the College is prepared by the IQAC and will be implemented through the department activities, subject associations, clubs, and committees. IQAC monitors supplementary programmes, Academic Curriculum Delivery Monitoring, Remedial Programmes, Bridge Courses, Feedback etc. The activities of the IQAC have been monitored through departmental co-ordinators and Criteria Convenors. The IQAC conducts an academic audit of all the departments and reviews the overall progress of the College. The IQAC has a separate office and staff to manage the day-to-day affairs. Thus, the IQAC has been functioning as the centre for all the academic initiatives and quality management measures of the college.

The year 2021-22 witnessed a hybrid mode of learning, with online and offline classes, and hence number of important strategies had to be evolved regarding the conduct of classes, completion of syllabus, conduct of internal assessment tests and seminars, record of online classes taken, conduct of orientation, induction programmes and capacity building programmes. Regular meetings of the IQAC were held and all the major decisions were recorded in the minutes. The College participated in the AISHE (All India Survey on Higher Education) data collection survey process in this year and uploaded the required data on portal by NIC, Gov of India. The AQAR for the year 2020-2021 is under preparation and will be submitted within the stipulated time. Preparations are also underway to shift to an automated ERP software for academic management (Online TCS). In spite of the constraints owing to the pandemic, the following programmes were conducted by the IQAC during this academic year:

1. Academic Plan

The Academic year plan was prepared by the IQAC in its meeting held on 9<sup>th</sup> August, 2021. The Departments were asked to conduct seminars/webinars, give more importance to research work, devise methods to make online learning more effective and submit weekly reports of online classes taken.

2. WEBINAR on “Higher Education and Cyberspace: Reconfiguring Institutional Strategies”

A two-day webinar was jointly organized by the IQAC of Mar Thoma College and the Mar Thoma Higher Education Commission (MTHEC) on “Higher Education and

Cyberspace: Reconfiguring Institutional Strategies” from July 31<sup>st</sup> 2021 to August 1<sup>st</sup> 2021. Around 200 faculty members from the 9 member colleges of the MTHEC participated in the sessions which were led by eminent speakers across the country.

### 3. Felicitation for University Rank & A<sup>+</sup> Grade Holders

A felicitation meeting to congratulate the university rank and A<sup>+</sup> grade holders in the degree examinations of 2018 – 2021 was hosted by the IQAC on September 1<sup>st</sup>, 2021 at 5:30 pm in the online mode. A cash prize of Rs.1500 for the rank holders and Rs.1000 for the A<sup>+</sup> grade achievers, was awarded.

### 4. Capacity Building Programmes For Faculty:

#### i. Learning Management System (Moodle) Training Workshop for Teaching Faculty

An online workshop and hands-on training on Moodle was conducted for the faculty members of the college on 30<sup>th</sup> September, 2021 from 9.30 am to 3.30 pm. The workshop focussed on building skills and knowledge in developing, managing and conducting courses in a digital format. The Moodle platform training included practical, hands-on- training sessions to explore and apply the skills learned. 55 faculty members participated. Dr Jacob Thomas and Prof Vishnu Namboothiri KM were the resource persons.

#### ii. Training for Office/ Clerical Staff:

A training programme on “Auditing Procedures” was conducted for the office staff of the college on 18<sup>th</sup> August 2021. 10 members participated in the event. Dr Pragash, Deputy DCE Kottayam, served as the resource person.

#### iii. Training for IQAC members and Clerical staff on ERP software:

A Hands - on - Training session was conducted on ‘Online TCS’ ERP software for automation of academic and administrative management in the college in the Mini Conference Hall on 26<sup>th</sup> February, 2022. 7 members participated in the training. Mr Siraj, Meshilologic Systems was the resource person.

## 5. Induction Programme For First Year UG Students:

The IQAC in association with Prep Academy, Tiruvalla conducted an induction programme (6-day duration) for the first year UG students from 28<sup>th</sup> September to 4<sup>th</sup> October 2022. Rt Rev Dr Euyakim Mar Coorilos Suffragan Metropolitan, Manager of the college inaugurated the programme and Rev Dr Abraham Zachariah K, delivered the commencement address. Experts from different disciplines handled sessions on topics like Communication Skills, Defence Services- Job Opportunities, UPSC Examinations, Scholarships and Grants, Motivational Sessions and introduction to the different clubs and associations in the College. Dr Gopalakrishnan MB, Registrar, SreeSankaraUniversity Kalady, delivered the Valedictory address.

## 6. Bridge Course

Different departments of the college, in coordination with the IQAC conducted 15-hour Bridge Courses on the Core Subjects for the first year UG students from 6<sup>th</sup> to 10<sup>th</sup> September, 2022.

## 7. IT POLICY

The IQAC along with the ICT Committee of the college visited the Digital University (DUK) Thiruvananthapuram, on 25<sup>th</sup> November, 2022 in order to study the facilities and get a clear understanding of the latest developments in the IT scenario with respect to educational institutions. Keeping in light the recommendations from the experts at the DUK, and the needs of the college, the team drafted the first version of the institution's IT policy and submitted it to the Principal for onward submission to the Governing Council.

## 8. ACADEMIC AUDIT:

### i. Internal Audit

An internal academic audit of all the departments was held on 18<sup>th</sup> February 2022. A team consisting of the Principal Dr Varughese Mathew, the IQAC Coordinator Dr Susan Thomas, and Joint Coordinator Dr Nebu John visited all the departments and evaluated the preparation for SAAC accreditation, the maintenance of regular documents and files.

### ii. External Audit

A team consisting of Dr Rajan Varghese (former KSHEC member), Dr Shaju (Baselius College, Kottayam) conducted the academic audit for the years 2020- 2021 and 2021-2022 on 25<sup>th</sup> March, 2022. A detailed report of the same was submitted to the Principal by the team.

9. IQAC Sapthathi Project- Comprehensive ERP implementation for management of Learners' Data

As a Sapthathi project, the IQAC proposes the automation of the data management process. A comprehensive implementation of ERP platform for the administration and management of learner data, academics and the evaluation of administrative processes and academic programs is underway.

10. Centralized Collection of Feedback

The IQAC centrally collects the feedback of the outgoing batches. Feedback on Curriculum, Institution Feedback, Teachers' feedback is collected and analysed.

The IQAC is thankful to the College Principal Dr Varughese Mathew, the College Council, the faculty members, the secretarial assistants, and to all the members of the NAAC and SAAC committees for their sincere cooperation and hard work.

#### **14. Manuscript Magazine**

The following departments published their manuscript magazine. Congratulations to the HODs, Presidents and Secretaries of subject associations of the respective departments.

MTSA – VIHAN 2021

- Mathematics – ALMAGEST (Second Prize)
- Chemistry – Crucible (Third Prize)
- Zoology – Oyster (First Prize)
- Botany
- English

## 15. RESEARCH ACTIVITIES

All the post graduate departments of the college, except Bio-Science Department are recognized research centres of Mahatma Gandhi University. Active research is being carried out in the Departments of English, Physics, Economics, Mathematics, Chemistry, Botany and Zoology. Sixty seven scholars are enrolled in various departments for the Ph.D. programme, at present.

Department	Number of Research Scholars
English	5
Economics	25
Zoology	4
Physics	5
Chemistry	3
Botany	13
Mathematics	11
<b>Total</b>	<b>66</b>

The Following scholars have been awarded Ph.D. degree during the current academic year:

Name of the scholar	Department	University	Guide
Dr Anoop Philip Varghese	Zoology	M.S University	Dr Kurian Mathew
Swapna S	Botany	M.G University	Dr Neeta N. Nair

### Research Guides of the College

Sl. No.	Name of the Guide	Department	Remarks
1	Dr Samuel Mathew	Physics	Retired
2	Dr Angel Susan Cherian		

3	Dr Noble P. Abraham		
4	Dr M.K. Suresh		External
5	DrVarughese Mathew	Mathematics	
6	DrIndulal G		External
7	Dr Koshy John		Retired
8	DrAjesh K. Zachariah		
9	DrShaji P. Thomas		External
10	DrRejomon George		External
11	DrShaji Varghese	Chemistry	
12	DrReenamole G		
13	DrJosmin P. Jose		
14	Dr Neeta N. Nair		
15	Dr Jacob Thomas	Botany	
16	Dr Mathews Thelly		External
17	DrAnilkumar K.		External
18	Dr Kurian Mathew Abraham		External
19	Dr Raju Thomas K	Zoology	
20	DrShilly Elizabeth David		
21	Dr Ashley Susan Philip		
22	Dr Ratheesh Kumar A	English	External
23	Dr Minu Sarah Koshy		External
24	Dr Icy K. John		Retired
24	DrShyni T. Alexander		External
25	Dr Suresh M V	Economics	External
26	DrGeevarghese M Thomas		External
27	DrShaju M J		External

There are 27 research guides in the College guiding the scholars for Doctoral Degree programmes.

#### **16. BOARD OF STUDIES, M.G. University**

The following faculty members is a member of UG/PG Board of Studies, M.G. University.

##### **Board of Studies (UG)**

- Dr Renjith Joseph, English
- Prof. K. M. Vishnu Namboodiri, History
- Prof. Anu Ann James, Mathematics
- Prof. Santhosh Jacob, Physics
- Dr Reenamole G., Chemistry

##### **Board of Studies (PG)**

- Dr. Letha P. Cheriyan, Zoology
- Prof. Reethu Mariah Jacob, Botany

#### **16. SEMINARS/CONFERENCES/ACTIVITIES ORGANIZED**

##### **Department of Mathematics**

- Dr C.T.John Centre for Research in Mathematics in collaboration with Kerala Mathematical Association has organised an online National Research Oriented Lecture Series on all Saturdays from 9<sup>th</sup> October to 27<sup>th</sup> November 2021 in Graph Theory from 3 pm to 5 pm. The resource person of the lecture series was Dr S. Arumugam, Adjunct Professor, Amrita Vishwa Vidyapeetham,Coimbatore, Visiting Professor, Liverpool Hope University. Participants from different states attended the programme. The lectures covered the following topics:Conditional Resolving Sets in Graph,Inequality Chains Of Graph Parameters,Two Applications Of Eigen Values And Eigen Vectors In Spectral Graph Theory,Graph Coloring,Graph Coloring (Continuation), LocalAntimagic Labelling,Applications Of Graph Theory,Application To Biology Under Social Network
- Prof. C. Kochumman Memorial Lecture 2022 was held on 5<sup>th</sup> March 2022. Dr Pranav Haridas,Assistant Professor, Kerala School Of Mathematics,Kozhikode was the



resource person. He delivered a lecture on “Mobius Transformation and the geometry of the Euclidean Space”.

- An orientation programme for first and second UG students was conducted on 25<sup>th</sup> February 2022. The resource person was Prof. Manesh Jacob, Dept. of Mathematics.

### **Department of Data Analytics**

- Conducted a Two day National Web based Workshop on Biostatistics and Data Analytics on 11<sup>th</sup> and 12<sup>th</sup> November 2021. The workshop was inaugurated by Mr. Anil Joseph, Director, Indian Affairs Humanitad Foundation, UK& International Business Development Consultant. He delivered the keynote Address on “Scope of Biostatistics and Data Analytics in Industry”. Dr R Vishnu Vardhan, Associate Professor of Statistics, Pondicherry University, Dr Anil C. Mathew, Professor of Biostatistics, Dept. of Community Medicine, PSG Institute of Medical Sciences and research, Coimbatore, Dr K.K. Jose, Director, School of Mathematics and Statistics, MG University, Kottayam and Dr Tirupati Rao, Professor of Statistics, Pondicherry University were the resource persons. Mrs. Anu Sanal served as the Convenor.
- A webinar was organised on 28<sup>th</sup> March 2022 on the topic: “The Scope of Data Analytics in the Digital Era”. Dr Bindu Krishnan, Professor & Head, Department of data Science, Jain University, Kochi was the resource person.

### **Department of Physics**

- Prof. Chellamma Mathew Memorial Lecture was organized on 25th February 2022. Dr. Jinesh K B, Indian Institute of Space Science and Technology (IIST), Thiruvananthapuram delivered a lecture on “*Artificial Brain for Artificial Intelligence*”

### **Department of Chemistry**

- Prof. V. V. Achenkunju Memorial Seminar on 8th March 2022. Dr Suraj Soman, Scientist, CSIR-NIIST, Thiruvananthapuram delivered a lecture on the Topic: “Dye Sensitised Solar Cells: Power houses for Ambient light Harvesting”

- Conducted an orientation programme for UG and PG students on 22nd February 2022. Dr Franklin J, Kairali State Research Award Winner, Assistant Professor, S.H. College, Thevara delivered a talk on “Unravelling Chemistry and Biology: Untold Story”

#### **Department of History**

- Orientation programme was arranged on 18<sup>th</sup> January 2022. Mr. Lovewin K. Cherian was the resource person and delivered a talk on the topic “Together Towards life”.

#### **Department of Economics**

- An Orientation Programme was arranged on 7<sup>th</sup> January 2022. Mr. Sunil D. Kurivilla was the resource person.
- 25<sup>th</sup> Annual Lecture delivered online by renowned Economist Prof. Prabhat Patnaik on 11<sup>th</sup> March 2022 on the topic ‘Growth and Poverty under Neo-liberalism’

#### **Department of Commerce**

- An Orientation programme was arranged on 5<sup>th</sup> October 2022. Lt. Prof. Raison Sam Raju and Dr Antu Annam Thomas took classes on “Online Education:Do’S and Don’ts” and “Online Education: What Why & How?” respectively
- Four Career related programmes was organised and details are given below.
  - 29<sup>th</sup> September 2022: Chat with Entrepreneur. Mr. Bittu John, Founder, 7 to 9 Green Store, Ernakulam was the resource person.
  - 3<sup>rd</sup> December 2022: Opportunities and Career Prospects. Sharath Venugopal, Regional Head – Institutional Partnerships, International Skill Development Corporation was the resource person.
  - 2nd December 2022: Principles of Investing- Opportunities in Stock Market. Marina Jose Kanjikal, Bombay Stock Exchange -Investor Protection Fund Manager was the resource person.
  - 12<sup>th</sup> March 2022: Chalo India – Entrepreneurship Training Programme. Rinto Thomas, Career Expert, Lafsiya S A, Academic Consultant was the resource person.
- Three day Webinar on “Route Map to Successful Entrepreneurship” (in association with K-Disc & DIC, Pathanamthitta) from September 27 to 29, 2022. Dr P V Unnikrishnan, Member Secretary of K-Disc hasinaugurated the webinar.Resource Persons: Mr.Jinto Sebastian &Mr.Jithin S O (Programme Executives – District Innovation Council),

Mr.Jikku James, Assistant Professor, St Thomas College, Ranny, Mr.Bittu John, Founder, 7 to 9 Green Stores, Ernakulam

- One day workshop on Research Project Preparation in association with M G University, on 04-12-2021. Resource Person: Prof.(Dr.) Harikumar P N (Professor, Dept. of Commerce, University of Kerala)
- BUD – TALK 2022 – Annual Lecture on Budget on 07-02-2022. Resource Person:Dr. Biju A V., Asst. Professor, Dept of Commerce, University of Kerala.

### **Department of English**

- 9<sup>th</sup> September 2021 – Department of English conducted a two day webinar on International Virtual Conference “Through the Looking Glass: Mediated Lives and Realities in Pandemic Times”.

## **17. SEMINARS/CONFERENCES ATTENDED**

### **Department of Chemistry**

Dr. Sharon Achamma Abraham: Participated in the International Chemical Engineering Conference, ICHEEC 2021 by Department of Chemical Engineering, NIT Jalandhar,Punjab,India

Dr. Josmine P. Jose: i. Participated webinar series (4 webinars) conducted by STRIDE on Philosophy of Science. ii. Participated webinar on Techno pedagogy by Higher Education Council, Kerala

### **Department of Botany**

Dr. Jacob Thomas: Participated in a two day webinar on Higher Education And Cyberspace - Reconfiguring institutional strategies organized by Mar Thoma Higher Education Commission Tiruvalla on 31/07/2021 & 01/07/2021.Participated in the Seminar entitled “Research Methodology in Life Sciences” on 7th December 2021 organized by Post Graduate & Research Department of Botany, St. Thomas College, Kozhencherry, Kerala, India.

Jincy P Abraham: Participated in one day International Seminar on chasing covid: VirologyandInterventions organized by the research committee DevaswomBoard College,Thalayolaparambu, Kottayam on 16<sup>th</sup> October 2021. Participated in two days webinar on Higher Education And Cyberspace- Reconfiguring institutional strategies

organized by Mar Thoma Higher Education commission Tiruvalla on 31/07/2021 & 01/07/2021.

Susan Kuriakose-Participated in one day National Webinar on Silent Valley-A Tropical rain forest organized by organised by the Department of Botany,Mar Thoma College,Chungathara on Saturday, 4<sup>th</sup>September, 2021

### **Department of Zoology**

Dr. Letha P Cheriyan participated in the Annual National Conference on Sustainable Ecosystems, Aquaculture, Fisheries and Fisherfolk (ANCOSEAFF 2022) at 28th Jan 2022 on “Additional insights into the fish community dynamics of the downstream estuarine zone of Meenachil River, Kerala, India”

Dr. Susan Thomas has attended 05 State Level Webinars

Dr. Raju Thomas K has attended 02 State Level Workshops, 1- State Level Webinar & two National Level Webinar.

### **Department of History**

Prof. K M Vishnu Namboodiri

- Completed all the 30 Short Term Courses offered by National Institute of Rural Development and Panchayati Raj

### **Department of Commerce**

**Lt.Raison Sam Raju:**Served as the Resource Person in one day seminar on topic “New Trends in E- Commerce”organizedbyDepartmentofCommerce,AssumptionCollege, Changanaserryon21-12-2021. Delivered an invited talk on topic “Problems of Marginalized”, organizedbyKerala Development and Innovative Strategic Council on 02-12-2021.Served as the Chief Guest in Republic Day celebration organizedbyU.P. School, Thirumoolapuram on 26/01/2022. Attended the National statutory conference on NEP -2020 & the future of higher education -post covid scenario held at S.V University, Tirupathi, Andra Pradesh from 7 to 9,January 2022. Participated in the Extended Contact Programme (ECP) as part of IGNOU Post Graduate Diploma in Higher Education (PGDHE) conducted by regional centre Trivandrum, from 22-07-2021 To 31-07-2021. Participated in the two day workshop on “Research Methodology and Data Analysis” organized by the post graduate & Research department of S N College, Kannur on 3-4 March 2022

## 18. PUBLICATIONS OF RESEARCH PAPERS / BOOKS:

### Department of Biosciences

Mr. Anoop Vijayan has published one research paper in International journal of Cardiology Hypertension

### Department of Botany

Dr. Neeta N. Nair

- Has identified four new fungal species
- was a Resource person in Webinars - in the International Ozone Day Celebration at M.T Seminary HSS Kottayam On 16-09-2021
- Shigi Joseph and Neeta N. Nair 2021.*Nodulisporium terra*: a new fungal species explored from soil of paddy field , Ramankari, Kerala, India.*J. Mycopathol . Res.* 59(1): 95-97. ISSN 0971-3719(This Journal is included in UGC Care list in 2021)
- Lini K. Mathew, Jacob Thomas and Neeta N. N. 2021.*Marthomyces* gen. nov. ( Asterinales, Lemboziaceae ) from southern Western Ghats , India. *Asian Journal of Mycology.*4(2): 35-41. ISSN 2651-1339
- Sandhya Susan Alex and Neeta N. Nair 2021 *Phomopsis indica*, *Cordanachittarae*-two new fungal species from the Chittar forest soil, Pathanamthitta , Kerala, India .*J. Mycopathol. Res.* 59 (3):323-325. ISSN 0971-3719(This Journal is included in UGC Care list in 2021)

**Dr. Jacob Thomas**

- Has identified three new fungal species and one new fungal genera
- Hina Mohamed and Jacob Thomas, 2021. A new species of Amazonia (black mildews) on *Ixora brachiata* from Western Ghats, India, *Phytotaxa* 523 (3): 259–263 <https://doi.org/10.11646/phytotaxa.523.3.7>
- Hina Mohamed and Jacob Thomas, 2021. A new species of *Echidnodella* (Asterinales, Lembotiaceae) from Western Ghats of Kerala State, India, *Phytotaxa* 496 (3): 275–280 <https://doi.org/10.11646/phytotaxa.496.3.6>
- Gopinathan Nair Goku, Jacob Thomas & Nisha, 2021. *Prillieuxinaaporosae* sp. nov. (Asterinales, Asterinaceae) from southern Western Ghats, India, *Phytotaxa* 487 (2): 177–180 <https://doi.org/10.11646/phytotaxa.487.2.9>
- Lini KM, Jacob Thomas, Neeta NN 2021 – *Marthomamyces* gen. nov. (Asterinales, Lembotiaceae) from Southern Western Ghats, India. *Asian Journal of Mycology* 4(2), 35–41, Doi 10.5943/ajom/4/2/4

### **Department of Chemistry**

Dr. Neema Ani Mangalam has published 1 research paper

- Spectral studies and quantum chemical ab initio calculations for Copper (II) complexes of two heterocyclic aroylhydrazones, SR Sheeja, NA Mangalam, M Sithambaresan, *Journal of Molecular Structure*, Volume 1245, December 2021, 131001.

Dr. Ajesh K. Zachariah published two papers:

- Photoassisted degradation of rhodamine B using poly( $\epsilon$ -caprolactone) based nanocomposites: Mechanistic and kinetic features, EldhoElias,C. Sarathchandran, Saju Joseph, Ajesh K. Zachariah, Jince ThomasDineepDevadasan, Fernando G. Souza Jr, Sabu Thomas, *Applied Polymer*, Volume138, Issue26, 2021, 50612.
- Synergistic effect of hybrid fillers on transport behavior of NR/EPDM blends, Manju V Nair, Anil Kumar S, Susan Joseph, Ajesh K Zachariah, Hanna J Maria, Sabu Thomas, *Journal of Science and Technology*, 9, 2021, 2321

Dr. Nebu John published one paper

- Recent developments in the chiroptical properties of chiral plasmonic gold nanostructures: bioanalytical applications, Nebu John, Anslin Thankachan Mariamma, *Microchimica Acta* (2021) 188:424

Dr. Sharon Achamma Abraham published three papers

- Structures of cation doped polyacenes and its binding energies across polyacene surface, Dr. Sharon Achamma Abraham, *Materials Today: Proceedings*, in press
- Reorganization Energies of Oligoacenes, Dr. Sharon Achamma Abraham *International Journal of Science, Engineering and Management (IJSEM)* 6 (2021) 2456 -1304
- Computational Study of Electronic Properties in Oligoacenes, . Sharon Achamma Abraham, *International Journal of Advanced Research in Science, Communication and Technology (IJARSCT)* 2 (2022) 2581-9429

Dr. Merin Sara Thomas published one paper& edited three book chapters

- Electrospinning as an Important Tool for Fabrication of Nanofibers for Advanced Applications—a Brief Review." *General Chemistry* 7, no. 3 (2021): 200022
- Nanocellulose-based Aerogels: Preparation, Properties and Applications." *Cellulose Nanoparticles: Volume 1: Chemistry and Fundamentals*, Royal Society of Chemistry.(2021). (Book Chapter)
- Functionalization of Cellulose—Chemical Approach." In *Functionalized Polymers*, pp. 139-152. CRC Press, 2021.(Book Chapter)
- Bioplastics Used for Nanotechnology Applications." *Reference Module in Materials Science and Materials Engineering*, Elsevier, 2021, ISBN 9780128035818, <https://doi.org/10.1016/B978-0-12-820352-1.00084-5>.. (Encyclopedia chapter)

Dr. Reni George published two papers

- Synthesis and characterization of immobilized glucoamylase on mesocellular foams through spectroscopic techniques and catalytic activity of immobilized enzyme, Reni George, S. Sugunan, *Materials Today: Proceedings*, 50 (2022) 107-112
- Synthesis, crystal structure and ligand based catalytic activity of octahedral salen Schiff base Co(III) compounds, Nithya Mohan, S.S. Sreejith, Reni George , P.V.

Mohanana , M.R. PrathapachandraKurup, Journal of Molecular Structure, 1229(2021) 129779

Dr. Surya Philip published one paper

- Antiproliferative studies of transition metal chelates of a pyrazolone based hydrazone derivative, Surya Philip, Elambalassery G. Jayasree&KochukittanMohanana, Journal of Biomolecular Structure and Dynamics, DOI: [10.1080/07391102.2021.2024257](https://doi.org/10.1080/07391102.2021.2024257)

Dr. Reenamole G. edited one book chapter

- Emerging materials for Nano catalysis and Nano sensors, CRC Press (Taylor and Francis)- Book (In press)

### **Department of Computer Applications**

Dr. Antu Annam Thomas has published two publications in peer reviewed journals.

### **Department of English**

Ann Mary Raju published a chapter “Said and Unsaid: A Glimpse into the Cultural Appropriation of Native Americans” in the book Since History Begun: Unveiling the Life of the Indigenous people published by Authors press, New Delhi.

### **Department of Physics**

Sanu Mathew Simon has published 1 research paper.

- Sajna, M. S., Sanu Mathew Simon, N. V. Unnikrishnan, and Kishor Kumar Sadasivuni. "An Overview of Graphene-Based 2D/3D Nanostructures for Photocatalytic Applications." *Topics in Catalysis* (2022): 1-25.



Arun Vinod has published 2 research papers.

- Niloofar Mozaffari , Viola Vambol, Yanuar Hamzah, Alaa El Din Mahmoud, Nastaran Mozaffari, Nadeem A Khan, SergijVambol, Nishat Khan, Arun Vinod, "Influence of Thickness on the Structural, Morphological and Optical Properties of Co-doped TiO<sub>2</sub> Thin Films Prepared by Sol-Gel Method" *Biointerface Research in Applied Chemistry*, Volume 12, Issue 1, 2022, 718 – 731 doi.org/10.33263/BRIAC121.718731
- Mahendra Singh Rathore, Arun Vinod, Rambabu Angalakurthid, A.P.Pathak Santhosh KumarThatikonda, Srinivasa Rao Nelamarri, "Role of oxygen pressure on the structural and photoluminescence properties of pulsed laser deposited GeO<sub>2</sub> thin films" *Physica B: Condensed Matter*, Volume 625, 413466, doi.org/10.1016/j.physb.2021.413466

#### **Department of Zoology**

Dr. Letha P Cheriyanhas published a peer reviewed journal and has presented Paperpresentation: in the National Conference. during the academic year 2021-22.

Dr. Raju Thomas K. has published five research articles in peer reviewed journals and one chapter in the book- New Visions in Biological Sciences during the academic year 2021-22

### **19. PAPERS PRESENTED/ INVITED TALKS**

#### **Department of English**

Dr Susan Thomas Served as resource person at a national webinar on "Appreciating Literature" conducted by Maharaja Jivajirao Shinde Mahavidyalaya, Ahmmed Nagar on 10<sup>th</sup> March 2022.

#### **Department of Physics**

Dr. Sanu Mathew Simon participated and presented an e-poster at Online Conference on Emerging and Enabling Materials organized by Qatar University (22-24, November 2021)

Dr. Noble P. Abraham, Invited lecture on “*Career Planning Framework for Physics Students*” as a part of “Mentoring with Career Expert” project at St. Thomas College, Ranni, January 13, 2021.

### **Department of Chemistry**

- Dr. Sharon Achamma Abraham Presented a Paper in International Chemical Engineering Conference, Sept 17 -19, ICHEEC 2021, Online mode, NITJalandhar, Punjab, India.
- Dr. Reenamole G and Jintu Fraqnckis Kurisinkal, presented (online mode) Band Gap modified Metal Oxide nanomaterials for visible light absorption, 7th International Congress on Energy Efficiency and Energy Related Materials (ENEFM 2021), Turkey.
- Dr. Josmine P. Jose - Resource person for the webinar conducted by Vimala College, Trissur on Philosophy of Chemistry on 29-9-21
  
- Dr. Josmine P. Jose was the resource person at SreeSankaraVidyapeetom College, Perumbavoor as a part of National Science day Celebration on 2<sup>nd</sup> March 2022. She delivered a talk on “Science for a sustainable future: Scope of Nano Technology

### **20. MAJOR/MINOR PROJECTS:**

- Dr Jacob Thomas (Botany)–The Major project on “Identification, documentation and molecular characterization of leaf and bark inhabiting fungi in Thattekkad Bird Sanctuary in Ernakulam District, Kerala”. KSCSTE, Govt. of Kerala, Rs. 22 Lakh has completed in July 2022 (March 218 to July 2022)

- Dr Josmin P. Jose (Chemistry) – Rs 46 Lakhs has been sanctioned by DST for DST Indo-Slovenia Joint Major Project “Facile Preparation of superhydrophobic cellulose nanofibres and compounding with PLA for packing applications”. MG University Kottayam and Jozef Stefan Institute, Slovenia are the collaborators.
- Dr Reenamole G, Department of Chemistry got a DST TARE-SERB Fellowship of Rs. 21 lakh to work on Dye sensitized Solar Cells.

## 21. AWARDS/ HONOURS/ POSITIONS HELD:

The following faculty members were awarded with Doctoral degree in the academic year 2021-2022.

Sl. No.	Name	Designation	University
1	Dr Sonia Anna Zachariah	Assistant Professor, Dept. of Botany	MG University Kottayam
2	Dr Anoop Philip Varghese	Assistant Professor, Dept. of Zoology	MS University, Tirunelveli
3	Dr Letha P. Cheriyan	Assistant Professor, Dept. of Zoology	MG University Kottayam
4	Dr Surya Philip	Assistant Professor, Dept. of Chemistry	University of Kerala
5	Dr Teena T. Elizabeth	Assistant Professor	MG University, Kottayam

## 22. EXAMINATION BOARD/ QUESTION PAPER SETTING

The following faculty members have served Chairman /Vice Chairman of the Examination Board / Viva Board and in the Board of Examiners for question paper setting.

- **Botany:** Dr Neeta N. Nair, Prof. Renosh Tom Varghese K
- **English:** Dr Susan Thomas
- **Commerce:** Lt. Prof. Raison Sam Raju

## 23. NIRF RANKING

**Prof. KM Vishnu Namboodiri**, Department of History is the Co-ordinator of the NIRF Ranking process of the College. Prof. Anoop Koshy George and Prof. Agney G. K served as the Joint co-ordinators.

## **24. COLLEGE EXAMINATIONS**

In the restructured credit and semester system internal examinations are statutory examinations for all UG and PG Programmes. The College, therefore, conducts internal examinations for each semester. **Dr. Antu Annam Thomas, Department of Computer Applications** is the convener and Prof. Agney G. K, Department of History is the joint Convener of the Examination Committee. In the wake of Covid 19 both offline and online internal examinations were conducted.

## **25. MENTORING**

The college has a mentoring system to mould the young adults. The Mentoring Committee, led by **Dr Renjith Joseph**, carried on the work, allotting mentors to all the UG students in the college.

## **26. ACHIEVEMENTS IN SPORTS AND GAMES**

- Football - (Women): College Women Football team is the Champions of MG University Intercollegiate Championship; Moreover, sixteen players of our team, represented M.G University; Sandra Sasi and Nisar K represented Senior Kerala State; Sona & Keerthana represented Junior Kerala State; Also, women's team secured Third place in Kerala State Championship; Our players played for professional football clubs as Gokulam FC, Don Bosco, Lucca Club for state club championship.
- Football - (Men): College Men football team is the Zonal Champions of M.G University South Zone Championship.
- Hockey - (Women): College hockey team is currently the M.G University Intercollegiate women champions. Ten players of the team represented M.G University Champions; Reshma from college team was the captain of Kerala State Team; two members, Navya and Reshma, represented Kerala State Team; Also, Abhirami, Devika and Haripriya represented Kerala Junior Team; College team also secured Third place in Kerala State Junior and Senior Hockey Championship; Winner of MG University 5-A side Intercollegiate Hockey Championship held at Maharajas College; Runner up in the 7th Senior Kerala State Hockey Championship held at Kollam; Runner up in the Kerala Olympic Women Hockey Championship;
- Net Ball - (Men): Third place in M.G University IC Championship; Asher Sebastian represented M.G University; Runner up in Kerala State Senior Championship.

- Karate- (Men):Sarath Babu of Third B.Sc. Physics secured first place in Karate in the event Kottayam District Olympic games 2022; Sarath Babu won Gold Medal in 75Kg weight Category; Sarath Babu represented M.G University
- Our college team also participated in Cricket (Men), Handball (Women), Taikwando (Men) and Cricket Team Women Championship.

## **27. WOMEN EMPOWERMENT CELL& WOMEN’S CELL**

Women Empowerment Cell is the Cell for the Prevention of Harassment against Women and Prof. Sony Achamma Thomas served as the convenor of the cell. Prof. Anitha George Varghese served as the Convenor of Women’s cell. Both cells organised special motivational lectures for the women students. On 29<sup>th</sup> November 2021, a pledge was taken by the students of the College to end violence against women.

The International Women’s Day was celebrated on 8<sup>th</sup> March 2022. The programme was arranged by the Women Empowerment Cell in association with Women Cell. Mrs. Omana Mathew, Secretary, Theological Literature Council was the resource person and delivered a talkbasedon :Gender Equality for a sustainable development”.

## **28. NCC**

Academic year 2021-22 was an exciting year for National Cadet Corps, MT college unit as it was saturated with very many programmes, camps and other events. Lt. Raison Sam Raju, Assistant Professor in Commerce and Company Commander of this NCC unit has led the unit this academic year with lot of activities apart from routine under the able commandership of Col. M S Sachdev, Commanding Officer, 15(Kerala) Bn.The commanding officer and staff of 15 (K) Bn. NCC was kind enough to pay special attention and care to MT college unit in all its activities and programmes.

## **MAJOR ACHIEVEMENTS OF ANO FROM INSTITUTION DURING 2021-22**

- Lt. Raison Sam Raju selected as the Best ANO in NCC Kottayam group for the third consecutive year.

## **Major achievements of NCC unit**

SL. NO	Name ofthe Cadet	Activity
1	U/O.Sneha (KL/19/SW/A/133691)	RDC IGCRDC Pre RDC -IRDC Pre RDC – III EBSB IX – K&L

2	Cdt.Bobin Babu (KL/20/SD/A/133758)	RDC - IGC
3	SUO.Godbi S Babu (KL/19/SD/A/133667)	EBSB VIII – Maharashtra ALC – Tamil Nadu
4	U/O.Shabarinath M (KL/19/SD/A/133718)	All India Trekking Expedition -AP Trek 1 EBSB -Uttarakhand
5	U/O.Phoebe Sara Cherian (KL/SW/18/A/133655)	Cadet Welfare Society Scholarship
6	Sgt.Feby Mariam John (KL/19/SW/A/133668)	Peer group reviewer of NCC Digital Forum
7	Cdt.Akhil Rakesh (KL/19/SDA/133683)	CM Scholarship
8	Cdt.PoojaPurushothaman (KL/20/SW/A/133777)	CM Scholarship
9	Cdt.Joshua Raju George (KL/20/SD/A/133768)	<ul style="list-style-type: none"> <li>• EBSB – K&amp;L</li> <li>• Second Prize in Best cadet Competition organized by the NCC unit of St.Peters College, Kolencherry</li> <li>• First Prize in Best cadet Competition organized by the NCC unit of Baselious College, Kottayam</li> </ul>
10	U/O.Ashish Balan (KL/19/SD/A/133672)	EBSB -Delhi
11	Cdt.Albin Roy (KL/20/SD/A/133739)	<p>Second Prize in Digital poster making competition organized by the 10(K) Bn. NCC for the cadets of K&amp;L Dte.</p> <p>Bronze medal in National level quiz competition organized by the NCC unit of Thakur College of Science &amp; Commerce, Mumbai</p>

#### ENTRY INTO ARMED FORCES IN THE RANK OF JCO/NCO/OR-2021-22

Sl. No	NCC Number	Name of the cadet	
1	KL/19/SD/A/133699	Roshan P	STD CDT IN MEH
2	KL/16/SD/A/122806	Swathy S	GD

05 cadets selected in the Army Recruitment Rally held in Trivandrum, Feb 2021

02 Cadets selected for SSB interview (NCC Special Entry)

- **C & B CERTIFICATE EXAMINATION**

C CERTIFICATE	
Year	2020-21
No of cadets appeared	19
No of cadets passed	19
Pass Percentage	100%
B CERTIFICATE	
Year	2020-21
No of cadets appeared	62
No of cadets passed	60
Pass Percentage	97.00%

Faculty Achievements

Lt. Raison Sam Raju (Department of Commerce) Secure Best ANO in Kottayam group for the third consecutive Term.

**MAJOR ACHIEVEMENTS OF NCC UNIT DURING 2021-22**

- NCC unit secured second prize in regional video making competition organized by the UnnathBharath Abhiyan.
- Best unit in 15 Kerala Battalion NCC.
- Best NCC unit in NCC Kottayam group
- Overall Champions in the All Kerala NCC Fest organized by the Baseliious College, Kottayam

**SOCIAL SERVICE ACTIVITIES CONDUCTED DURING 2021-2022**

- NCC honoured the NCC cadets who participated in the COVID activities on 25 February 2021. Brig. Sunil Kumar NV inaugurated the event.
- NCC organized a campaign to collect the fund toward “Muralis Home Project” by providing coin box to NCC cadets.
- NCC Honoured His Grace The Most Rev Dr. Theodosios Mar Thoma Metropolitan who was one of our former Senior Under Officer of NCC. Thirumeni was specially honoured by Group Commander Brig. Sunil Kumar NV in the function.
- NCC published an e-magazine on international women’s day (08 March 2021) by including the articles of SW cadets.
- NCC cadets created an COVID awareness video “Lets stop the spread of COVID virus”

- NCC observed National Dengue Day 2021 on 16 May 2021. Dr. Varughese Mathew, Principal, inaugurated the event. Cadets cleaned their house and its surrounding.
- COVID duty in Kuttor check post. District administration handed over the responsibility of Kuttor (District border of Pathanamthitta and Alappuzha, in MC Road) check post to NCC unit of Mar Thoma college Tiruvalla. 08 Cadets were deployed daily for checking the vehicle at Kuttor check post. 2 military staffs were also assigned for the safety of NCC Cadets.
- NCC started a COVID care help Centre on college specially for the Ward No 08 of Mar Thoma College, Tiruvalla. Adv. Mathew T Thomas, MLA inaugurated the help desk on 12/05/2021. Cadets attended more than 150 calls and provided taxis, food, medicines etc.
- NCC organized blood donation camp on 14 June 2021 in association with TMM Hospital Tiruvalla as part of world blood donors' day. 18 cadets donated blood.
- NCC organized International Yoga Day 2021 on 21 June 2021 via online. Yogacharya. Sudheesh Kumar N, Director, Pytric School of Yoga delivered an invited talk on "Common Yoga Protocol".
- NCC organized World Environment Day celebration on 21 June 2021. Municipal Chairperson Smt. Bindhu Jayakumar, Chairperson, Thiruvalla Municipality inaugurated the Event. Retired staff of Mar Thoma college planted trees on college campus.
- NCC unit created short awareness video regarding the COVID protocols as part of the college reopening in Kerala.
- NCC unit started campaign title "Back to School" to support the poor students in higher secondary schools of Pathanamthitta district. Smt. Bindhu Jayakumar, Chairperson, Thiruvalla Municipality inaugurated the Event. NCC distributed study material to 87 higher secondary students of 4 schools.
- NCC celebrated the Golden jubilee celebrations of Indo-Pak war and honored the veterans from the Pathanamthitta district. Brig. M N Sajan, Group Commander, NCC Group, Kottayam inaugurated the event.
- NCC cleaned the classrooms on Gandhi Jayanti as part of clean MTC campaign.
- In Association with State Excise departments, flash mob organized in Tiruvalla Town and other public places on 23 March 2022 as part of anti drugs awareness programme.



- NCC organised a webinar on “Decoding Defence Career, for Graduates” on 30-06-2021 to create an awareness on career opportunities in defence. Brig.M D Chacko, Former Deputy Director General Army, served as the resource person.
- NCC cadets of Mar Thoma College Tiruvalla donated vegetables, Clothes and cleaning materials to the flood relief camp at St. Thomas school. Eruvellipera On 20 October 2021.Lt.Co.Thomas Varughese, AO, inaugurated the event.
- NCC unit of Mar Thoma College observed National Women’sDay by honouring the lady teachers of Mar Thoma College Tiruvalla and published a magazine by including the articles authored by the SW cadets.
- NCC cadets of Mar Thoma College, Tiruvalla participated in the Puneet Sagar Abhiyan organized by the NCC, K&L Dte.06 NCC cadets participated in Cyclethon and Ambalappuzhabeach cleaning.
- 123 cadets of Mar Thoma College Tiruvalla posted their digital creativity in the digital forum of NCC. Sgt. Feby Mariam John (KL/19/SW/A/133668) serving as the Peer group reviewer of NCC Digital Forum.
- NCC unit celebrated NCC day by organizing blood donation in association with TMM Medical Hospital Tiruvalla and donating food to the poor patients in the Government hospital Tiruvalla.18 cadets donated blood and food served to more than 100 patients in the Government hospital Tiruvalla.
- NCC unit donated mobile phones worth Rs.8000 to 14 poor students in college who didn’t have the facility to access online class. Smt. Bindhu Jayakumar, Chairperson, Tiruvalla Municipality inaugurated the event.

## **ANO AND SENIOR UNDER OFFICERS**

ANO, Lt.Raison Sam Raju (Department of Commerce) and Senior Under Officer Godby S Babu (III DC Economics), Under Officers: Sneha (3<sup>rd</sup> Dc Chemistry), Sabarinath M (3<sup>rd</sup> Dc Maths and Ashish Balan( 3<sup>rd</sup> Dc Physics)

## 29. NSS

The National Service Scheme is one of the organizations in Mar Thoma College to mold a group of young people with a service-minded attitude. There are about 300 volunteers in three NSS units in Mar Thoma College. The activity report for the year 2021-2022 is given below:

- Mar Thoma College NSS Unit celebrated world environmental day enthusiastically. Volunteers were planted a sapling to create a green corner. A lot of enthusiasm was seen in the students. Due to covid pandemic meeting was conducted successfully in online platform with wholehearted participation and awareness about plants.
- Mar Thoma College NSS Unit celebrated World Blood Donation Day on June 14 with the motto of "Give blood and keep the world beating". The meeting was conducted in online with the campaign for blood Donation.
- Mar Thoma College NSS Unit celebrated International Yoga Day on June 21st. The session was held in Online platform due to covid pandemic. All volunteers took part in the celebration. The inaugural speech was given by Dr. Remya Mohan (Physician and Yoga instructor) who emphasized the importance of Yoga and physical exercises in daily life.
- On International Paper Bag Day NSS Volunteers made had more than 800 paper bags and distributed them to various shops. During the online programme the Volunteers gave the message of "say no to plastic" by preparing paper bags.
- On Independence Day on 15 August 2021, organized a webinar on the theme "The Beauty of Independence" under the auspices of the NSS Unit. All NSS volunteers have taken an anti-dowry pledge.
- Mar Thoma College NSS Unit helped Night Watchman Sri Murali by building house for him from the project "Home for Homeless" started on July 27. The money received through the Collection and donations was handed over to College Principal Dr. Varghese Mathew.
- Members of the National Service Scheme delivered glossary items to the flood victims in the Peringara Panchayat in October 2021 and then the Panchayat President and Ward Member received items and distributed to the flood victims.

- Changes in modern life and the way of life of the people have led to a huge increase in air pollution. December 2 is celebrated as Pollution Control Day to control pollution and raise awareness among the people. The NSS unit of Mar Thoma College held an awareness rally on the occasion and took the pledge against pollutions.
- Orientation Camp for First Year NSS Volunteers was held at the College on 4th and 5th December 2021. About 150 first and second year NSS Volunteers participated and imparted training in making paper pen and paper bags and engaged in cleaning the college premises.
- Mr.Vishnu Ajayan, a NSS Volunteer and 3rd DC Economic student of Mar Thoma College, was selected as the Best Male Volunteer when the National Service Scheme State Awards were announced. This is after winning the Mahatma Gandhi University's Best Male Volunteer Award. Vishnu excelled in both academic and non-academic fields.
- On July28, 2021, World Nature Conservation Day, Mar Thoma College NSS Unit organized various activities for all the Volunteers to instil in the students, the feeling of warmth and affection towards nature. The main objective of the event was to increase awareness about the best practices to conserve our natural resources and encourage sustainability.
- As part of Azadi Ka Amrit Mahotsav towards the celebration and commemoration of 75 years of independence, Mar Thoma College NSS Unit organized a patriotic drawing, Blood Donation Camp, planted tree saplings and organized meeting based on legal awareness in online platform.
- NSS volunteers are actively involved in blood donation. About 100 units of blood were donated during the year
- Mar Thoma College NSS Unit had come up with a new project to carry out nature conservation campaigns for our future. "A Shade for My Future and the Earth" distributed over a hundred saplings to students and teachers on their birthdays in the name of the NSS.
- .Mar Thoma College National Service Scheme Volunteers very enthusiastically conducted a Food festival "THE CAFE DELITES". Knowledge of the Nutrition value of the food was also imparted. Food fest profits were frequently donated for

"Home for Homeless Project". The Food Festival was inaugurated by College Principal Dr.Varughese Mathew.

DrKesia Mary Philip, Dr I John Berlin and Dr Varghese P.J served as the programme officers.

### **30. THE BRAINS TRUST**

DrShaji Varghese, Prof. Manesh Jacob and Prof. Agney G. K served as the Directors of the Brains Trust.

Sayana Sam. of 3<sup>rd</sup> DC English served as the President. Alvin Punnackal of 3<sup>rd</sup> DC English served as the Speaker and Rachel George of 3<sup>rd</sup> DC Political Science served as the Secretary. Regular activities of Brains Trust include Debate, Quiz competitions and Annual camp

### **31. Training for Administrative Service Examination**

An arrangement has been made to provide training on a long term basis for the aspirants of Kerala and Indian Administrative Services. Prof. K M Vishnu Namboodiri and Prof. Agney G. K serves as faculty in- charge of this programme.

### **32. PTA**

The Parents Teachers Association, always a source of inspiration, has proved to be the backbone for the academic activities of the college, extending ample support. Class wise PTA meetings were organized by various departments throughout the year, helping us maintain discipline on the campus. Prof. Aravind Sankar is serving as the PTA secretary

### **33. FORT**

Forum of Retired Teachers has always been an extension wing of the college. It is quite heartening to note that most of the former teachers of the college take active interest in the affairs of the FORT.

### **34. CBCSS and PG CSS**

Degree and P G Programmes are offering under Credit and Semester System. Dr Neeta N. Nair (Botany) and Prof..Retheesh R (Mathematics) are serving as coordinators of UG and PG Semester System.

### **35. HOSTELS**

The College has two women's hostels providing accommodation to around 320 students. A sports hostel is also functioning in the College. Mrs. Rachel Koshy and Mrs. Anumol Varghese, serve as hostel wardens. The Hostel Day was conducted on 28<sup>th</sup> March 2021. Mrs. JinuPunnoose, Additional District Magistrate, Kottayam was the chief guest.

### **36. OTHER ASSOCIATIONS**

#### **College Choir**

- The activities of the College choir are being carried out well even in the midst of pandemic times.

#### **MTSA**

The chapel service of the college is organised by the MTSA. Due to the circumstances created by COVID-19, activities of the MTSA were conducted in both offline and online modes. The theme for the year was 'God's Purposeful Servant'.

- The activities of MTSA were inaugurated by His Grace Rt. Rev Dr. Euyakim Mar Coorilos Suffragan Metropolitan, Manager of the college on 21<sup>st</sup> July 2021.
- Rev. Stanley John Zacharia, Vicar of St John's Mar Thoma Church, Andaman and Nicobar, inaugurated the intercollegiate online competition Expressions 2021, which was held from 25<sup>th</sup> September, 2021 to 5<sup>th</sup> October 2021. 200 participants from over 20 colleges took part in the online competitions. U C College Aluva secured the highest points and bagged the Prof. PG Philip Endowment Ever rolling Trophy for overall champions. Kristu Jayanti College, Bangalore came in second position and bagged the Prof. Thomas T George Endowment Ever rolling Trophy Runners up.

- The MTSA hosted an Online Christmas Carol service and received a fairly good participation. Rev. Paul Jacob, Vicar, SoharMarthoma Church, Oman, delivered the Christmas message.
- Conducted Prayer week 2022 from 18-20, January 2022. The messages were delivered by Rev P.C Saji (General Secretary, Voluntary Evangelists Association, Mar Thoma Syrian Church), Mr. Cherry George Cherian (Missions India) & Rev AT Zachariah (Mar Thoma Church).
- Released an online magazine named 'Vihan'. The manuscript magazine was designed and edited by Ms. Sayana Sam who served as the editor of the magazine.
- Lent meditation was introduced. It is a process of self-reflection. During this period, the students of MTSA played an active role by preparing audios of sermons which were shared to the community via social media platforms. This Lenten season was a transforming experience for all.

### **37. SUBJECT ASSOCIATIONS**

The subject associations organised different programmes of curricular and co-curricular nature through online and offline mode during the current academic year. The major programmes are listed below.

#### **ENGLISH**

- Onam Celebrations
- Teachers' Day Celebrations
- English Literary Association Inauguration
- Christmas Celebrations
- Freshers' Day
- MUSES 2022 - An Inter-Collegiate Literary Fest

#### **MATHEMATICS**

- Activities of Mathematics association were inaugurated by Dr. Sandipan DE, Assistant Professor, IIT Goa on 22<sup>nd</sup> July 2021.
- National Mathematics Day Celebration was conducted on 18<sup>TH</sup> December 2021. Dr. Saranya G Nair, Assistant Professor, BITS Pilani, Goa was the chief guest of the day.

## PHYSICS

- The Physics Association inauguration & space week celebrations was held on 4th October 2021 by Dr. Shyama Narendranath, ISRO scientist.
- World Space Week: On 5<sup>th</sup> October , 2021, association had organized an invited lecture by Dr. Annapurni Subramaniam, Director, Indian Institute of Astrophysics, Bangalore on the topic, “*Astronomy and Astrophysics-Physics, Chemistry, Biology and Mathematics of the Universe*”. Various competitions like Power Point Presentation on Women in Space, Newspaper designing (*Theme- Wonders in Space*) & Night Sky Photography were conducted. Valedictory function of space week celebration was held on 26<sup>th</sup> October, 2021. Also, a Peer Learning Programme was also arranged and during the session, Ms. Sajitha K Anas, M.Sc. Space Science, St. Albert’s College, Ernakulam delivered a talk on '*Space-Beyond the Limit*' and Ms. Ashlin Ann Zachariah and Ms. Shimna S. Thottumkal, M.Sc. Physics, Mar Thoma College, Tiruvalla gave a presentation on 'Nobel Prize in Physics, 2021'.
- Er. Sunny John, Chief Engineer (Transmission South), KSE inaugurated a certificate course on ‘Roof top solar PV systems’ offered by ANERT, Govt. Of Kerala on 27<sup>th</sup> November 2021. An MOU was also signed with ANERT for the conduct of the course.
- On National Energy Conservation Day (13th December) 2021, the department published a survey report of energy audit on Energy Utilization and various energy conservation methods to the public. Also, the department conducted a Poster Competition of students of the department with theme ‘Energy Efficient India.’
- On National Science Day, 28th February, 2022, Dr. Sachin P.C., Assistant Professor, Fatima Matha National College, Kollam, delivered an Invited Talk on “*Sky and Beyond.*”. Students participated in Power Point presentations on relevant topics related to science.

## **CHEMISTRY**

- Observed the World Environment day on 5<sup>th</sup> June 2021 and activities of association were inaugurated by DrMahesh Mohan, Asst. Professor, school of environment science, MG University.
- 2021 September 6<sup>th</sup> - Teachers day was celebrated
- Observed WORLD OZONE DAY on September 16, 2021 through online mode. Dr. Gurumurthy Hegde was the guest of honor and resource person. The students of Chemistry Department had also conducted an inter departmental poster making and photography competition prior to the event.
- International Mole Day was celebrated on 23-10-21 through online mode. A powerpoint presentation contest was conducted on mole concept in which a topic was given to each class and students made power point presentations on each topic.
- Christmas day Celebration was conducted on 24-2-22. Dr. Shiny Thomas, Assistant Professor, Department of Malayalam gave the Christmas message.
- Honouring of Rank Holders
- Department of Chemistry honoured rank holders and A<sup>+</sup>holders of the department in the Mahatma Gandhi University examinations 2020-2021 on 8<sup>th</sup> February 2022. Mementoes and Cash prizes were awarded to them jointly by Dr Suraj Soman, Scientist (Recipient of CSIR Young Scientist Award 2020, Kerala State Youth Icon Award in Science 2020), NIIST, Thiruvananthapuram, Dr George Mathew, Treasurer of Mar Thoma College were the chief guests.

## **BOTANY**

- Environment day was celebrated on 5<sup>th</sup> June 2021. Mr Abju K. Arjun, Range Forest Officer , Thenmala Division delivered a lecture on “Ecosystem Restoration”.
- The association activities, were inaugurated on 5<sup>th</sup> January 2022 by Prof. Mathews Varkey, former faculty, department of Botany, Mar Thoma College, Tiruvalla
- Celebrated Onam celebration on 27<sup>th</sup> August 2021 through online mode.
- Arranged a Merit day to honour rank holders on 10<sup>th</sup> March 2022. Dr Y Annamma Varghese, Alumna and rank holder of 1972 PG batch was the chief guest.



- **Observed Cancer Day** - on 06/02/2022 at 7-8 pm through online mode ( G Meet ). Resource Person - Dr. Sreedevi S. Medical Officer NHM Ayush , PHC Cherukole. Topic - JeevithaShailiyumBhashanaRithiyum

## ZOOLOGY

- Department alumni was convened
- Released manuscript magazine “OYSTER”.

## COMMERCE

- Activities of Commerce Association were inaugurated by Prof. Harikrishnan P, Member Syndicate, M G University on 4<sup>th</sup> December 2021
- **HAND - Healing Assistance for Needed by Dear ones:** Under the leadership of HAND, this year distributed Tablets & books to the poor students, fund for the treatment of poor students.
- **BIZ Chat – 30Minutes for talking business:** BIZ Chat is a thirty minute meeting organised by the department in every Wednesday in G24 Classroom. Every session is conducted under the leadership of students in each class. The structure of meeting is arranged such that, first five minutes is for presenting the current affairs related to business and general. Next twenty minutes is for organising debates, paper presentations, quiz etc. and last five minutes is for presenting any entertainment activities like business games, puzzles etc.
- **Student Skill Acquisition Club:** The objective of the club is to help the students in acquiring practical skills inculcate various soft skills among students for shaping their bright career.
- **Idea Incubation Centre: One Idea means one business:** Under the leadership of incubation centre, training is given to write project proposals of various business ventures to be submitted to various government and non-governmental organisation related to entrepreneurial developments like DIC, banks, Chat with entrepreneurs etc. 5 students submitted the project under YIP scheme of Govt of Kerala.
- **COMBUZ - E-Magazine of Department of Commerce:** Under the leadership of Commerce department, published ‘COMBUZ’, E-magazine of Commerce

department which showcases news and events related to commerce and industry, writings on trending topics in commerce, cartoons, essays etc.

## **ECONOMICS**

- Activities of Economics Association were inaugurated on 29<sup>th</sup> July 2021 by Dr Shaju M.J, Baselious College, Kottayam. He delivered a lecture on ‘A Comparative Study on the Development Strategy of India and China’.
- Poovili 2021 – Onam celebration held on 24/08/2021 – online
- Discussion on Three Decades of Economic Reforms in India led by Dr. Icy K. John, Research Guide and Former Principal of the College, on 03/09/2021 through online.
- Buon Natale – Christmas celebration held on 23/12/2021.

## **HISTORY**

- The association activities for the academic year began with Onam celebration named ‘Sraavanotsavam’ held on 5th of September 2021 through online mode
- The association has also begun an online ‘Reference and Study Material’ bank accessible to the students in need and managed by the association president

## **POLITICAL SCIENCE**

- August 10th -Inauguration of Political Science Association
- August 17- Independence Day celebration
- August 25: Polichonam (Onam Celebration)
- December 11: Observation of Human Rights Day
- December 11: Freshers Day
- December 22: Christmas Celebration
- January 26: Online Special talk on “Importance of Democracy In the Modern World”
- March 11 : Peace rally on the basis of Russia- Ukraine war
- March 11: Signature campaign. # SAY NO TO WAR

### **38. ORIENTATION AND REFRESHER PROGRAMMES / SUMMER SCHOOLS / SHORT TERM COURSES / FDP / ONLINE COURSE**

The following faculty members attended the orientation / refresher programmes / Summer schools / Short term course etc during the current academic year.

#### **Department of Mathematics**

- **Anu Ann James** – Participated in the Short term course – Open Source tools For Research from 03.04.2021 to 09.04.2021

#### **Department of Physics**

- **Dr I. John Berlin** participated in 4th Refresher Course in Material Science: Recombinant Memetics organized by the University of Calicut from 07/12/2021 to 20/12/2021.

#### **Department of Chemistry**

- **Dr. Ajesh K. Zachariah:** Participated in FDP in Chemistry and Biochemistry organised by Sharadha University, Bangalore under PMMNT Programme
- **Dr. Shaji Varghese:** Participated in the Refresher course – Chemistry the catalyst for change. Offered by Teaching and Learning Centre Ramanujan College, University of Delhi from 14-28 July 2021.
- **Dr. Sharon Achamma Abraham:** Participated in the National Faculty Development Program from 14-7-21 to 20-7-21 organized by University of Delhi and Govt. of India
- **Prof. Anitha George Varghese:** Participated in the International Online Workshop on Academic Writing and Communication Skills, Research Methodology, Reference Management and Academic Publishing, 24-7-21 to 23-8-21. Also, Certificate course on Hands on with MS Office essentials, 19-7-21 to 3-9-21
- **Dr. Reenamole G:** Participated in the FDP in Instrumental Methods of Analysis by University of Delhi
- **Dr. Josmine P. Jose:** FDP on Chemistry - The Catalyst for Change by TLC, Ramanujan college, University of Delhi, 4 – 28 July, 2021
- **Prof. Serene Thomas:** Completed the 30 days International Online Workshop on ‘Academic Writing and Communication Skills, Research Methodology, Reference Management, and Academic Publishing’ conducted from 23 November - 31 December 2021.

- **Dr Surya Philip:** Two week faculty Development Programme “ Chemistry- The catalyst for change” organized by Teaching learning centre, Ramanujan college, University of Delhi, 14 – 28 July, 2021.

### **Department of Botany**

- **Dr Jacob Thomas**-Participated in One week FDP on Learning Management System and Course Design conducted by KSHEC, Govt. of Kerala from 01/09/2021 to 06/09/2021
- **Prof. Jincy P Abraham** – Participated in Online Two-Weeks Interdisciplinary Refresher course on Advanced Research Methodology 2.0 from 17-06-2021 to 01-07-2021
- **Dr Deepu A:** Attended the Refresher Course in Education and Teaching Methods” from 08/03/2022 to 21/03/2022 conducted by UGC-HRDC, University of Kerala

### **Department of Zoology**

- Dr. Letha P Cheryian: 01
- Dr. Shilly Elizabeth David: 01

### **Department of History**

- **Prof. Mathew Sam-** Completed two MOOC Courses conducted by Ramanujan College
- **Prof. K M Vishnu Namboodiri** –
  - Attended 5 FDP Webinars conducted by Madurai Kamaraj University HRDC
  - Participated in the Three-day National Level Faculty Development Programme on Investor Education and Tax Planning co-hosted by the PG and Research Department of Commerce, Entrepreneurship Development Club and IQAC, Mahatma Gandhi College, Thiruvananthapuram, from 10th to 12th February, 2022
- **Prof. Agney G K**
  - Participated in the Virtual Internship Program on Sustainable Development Goals and Community Programme organised by Gandhigram Rural Institute and IIT Delhi
  - Participated in one week Faculty Development Programme organised by Kerala State Higher Education Council on Best Practices for Online Teaching

- Participated in one week FDP organised by Guru Angad Dev Teaching Learning Centre (under P MMMNMTT) on Research Methodology

### **Department of Commerce**

- **Lt. Raison Sam Raju** :Attended four week induction programme organized by the Teaching learning centre, Ramanujan College, University of Delhi for faculty in college from May 18-17 june 2021
- **Nijin K Mathew** :attended FDP organized by the Teaching learning centre, Ramanujan College, University of Delhi for faculty in college from 08-22 November 2022

### **Scholarships and Endowments**

The endowment of Dr. P G Abraham endowment (Botany) was raised form rs. 2001/- to 27,001/-. The amount was given by Mrs Santhamma Abraham wife of late Prof. Dr P. G Abraham

### **COUNCILS AND MEETINGS**

The Governing Council of the college met many times during the year, giving vital instructions and directions regarding the administration and development of the college. College Council also met regularly and took decisions on matters pertaining to internal administration and academic projects. During the staff meetings conducted regularly, the faculty members raised significant questions and gave valuable suggestions for improving the academic atmosphere of the college. The Teaching and Non-Teaching staff associations also contribute significantly towards the stable functioning of the institution.

### **CONCLUSION**

As the curtain falls on yet another academic year, I wish to remind you all that the current academic year started with Covid – 19 at its peak and with restrictions and protocols. As we assemble here today, the fact that the Corona virus pandemic has slowed down around the world brings us relief and hope. In the hybrid academic year 2021-2022, the curricular and co-curricular activities, have been conducted using both offline and online modes.

We are celebrating the 70<sup>th</sup> College Day today. In the Saphthi Year of the College, we were able to materialise several of our Saphthi projects. All of this was achieved due to the relentless support of the Governing Council, staff, students and well-wishers. The fact is that there has been an unprecedented growth in infrastructural, green initiatives and online learning systems of the College during this uncertain time. We have converted the pandemic situation into an arena of diverse possibilities. Hope, we can initiate a few more plans from the list of Saphthi Projects, before the valedictory celebration, which is scheduled on 10<sup>th</sup> July 2022.

We are very grateful to everyone for the support and guidance rendered to the College in all circumstances, including the difficult pandemic situation. Let me express my heartfelt gratitude to His Grace the Most Rev. Dr Theodosius Mar Thoma Metropolitan, for his leadership and for all the support and help received from the Church.

We express our sincere gratitude to the former Manager Rt. Rev. Dr Euyakim Mar Coorilos Suffragan Metropolitan for his blessings, support, and guidance. We welcome the new manager His Lordship Rt. Rev. Thomas Mar TimotheosEpiscopa as he assumes his office, and I am sure that the vision, experience, and leadership of His Lordship will lead the institution to greater heights in the coming years. I express my sincere gratitude to Tirumeni for having given permission to go ahead with the conduct of the College day 2022, and for all the valuable support extended towards this event.

We acknowledge and appreciate the constant support and encouragement of all the Governing Council members, former teachers, present teachers, non-teaching staff, alumni, PTA, management staff, local community, students, and well-wishers of the College.

May I conclude this Annual Report for the year 2021-'22, bowing my head in gratitude before God Almighty, quoting verse 6-7 of Proverbs, Chapter 4, which enumerates the qualities of 'Wisdom'.

6 Do not forsake wisdom, and she will keep you;  
love her, and she will guard you.

7 The beginning of wisdom is this: Get wisdom,  
and whatever you get, get insight.

Thank you all.

**Dr Varughese Mathew**  
**Principal**