



ANNUAL REPORT 2021-22

CMS College, Kottayam (Autonomous)

Affiliated to Mahatma Gandhi University, Kottayam

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Table of Contents

1. INTRODUCTION	4
1.1 About the College	4
1.2 History of CMS College	5
1.3 Special Heritage Status	9
1.4 Vision and Mission	10
1.5 Governance, Leadership and Management.....	11
1.6 NIRF Ranking.....	11
1.7 Highlights of the Year	12
1.7.1 QR Coding of Plants	12
1.7.2 Divyangjan Friendly Toilet Block.....	13
1.7.3 Library Renovation	14
1.7.4 Neve Square	15
1.7.5 Digitization and Renovation	15
1.7.6 R. E. Newton Centre	16
1.7.7 Sculpture Garden	17
1.7.8 Street Light Installation.....	18
1.7.9 Apiculture and Butterfly Garden	18
1.7.10 Rewild Project.....	19
1.7.11 Adoor Gopalakrishnan Film Festival.....	20
1.7.12 Collins Memorial Lectures	21
1.7.13 Askwith Scholarship	21
1.7.14 CMS Eduware.....	21
1.7.15 University Youth Festival.....	22
1.7.16 Benjamin Bailey Memorial Lecture 2021.....	23
1.7.17 Vidyatharangam	23
1.7.18 Documentary Film	24
1.8 Departments	26
1.9. Faculty Details	27
1.10. Committees Functioning in the College	28
2. CURRICULUM DESIGN AND DEVELOPMENT	29
2.1. Programmes Offered.....	29
2.2. Value Added Courses	31
2.3 Admission	32
2.4 Student Orientation and Induction Programme	34

2.5. Teaching Learning Techniques Used	36
2.6. Evaluation System and Results.....	38
2.7. Result Analysis	39
2.8. Awards/ Recognition.....	39
2.9 Feedback	40
2.10 Faculty Enrichment Programmes	43
Faculty Orientation Programme.....	43
2.11. Projects.....	44
3. RESEARCH.....	44
3.1. Research Centres	44
3.2. Research Guides	45
3.3. List of Research Scholars	46
3.4. Research Publications	47
3.4.1 Books/Proceedings/Conferences.....	52
3.4.2 Paper Publications.....	57
3.5. Collaborations.....	62
3.6. List of MoU	62
3.7. Collaborative Research.....	63
3.8. List of faculty members awarded with Ph.D.	78
3.9. Conferences/seminars for Research Scholars	78
3.10. Grants.....	79
4. EXTRACURRICULAR ACTIVITIES.....	80
4.1. NSS Organised Activities	80
4.2 NCC Organised Activities	81
4.3. Achievements in Extension Activities	82
4.4. Sports and Cultural Events	82
5. PLACEMENT AND PROGRESSION	83
5.1. Placement of Outgoing Students	83

1. INTRODUCTION

-OVERVIEW OF THE INSTITUTION

1.1 About the College

‘The College Cotym’ which later came to be known as CMS College Kottayam, was established in the year 1817 by the Church Missionary Society, England. CMS College Kottayam is now one of the largest colleges in Kerala with 23 departments offering 17 undergraduate, 17 postgraduate and 8 research programmes offering 893 courses for 2629 students, 149 teaching faculty members and 35 administrative staffs. Deeply rooted in Kottayam and dedicated to its mission, the CMS College is one of the top colleges in Kerala. CMS College offers programs in almost all academic fields in arts and sciences. Whether you have a passion for basic science, applied science, literature, history, politics, commerce or economics, you will find a department that best suits your needs. At the time of its inception, there were no colleges to follow or adapt. In hindsight, CMS has set a legacy for other modern higher education institutions in the country to follow. In 1817, the curriculum included the study of Latin, Greek, Hebrew, Euclid, History and Geography, along with English, Malayalam, Sanskrit and Syriac. Rev. Benjamin Bailey was the first Principal of the College, who nurtured the College and set it on the road to becoming an institution of liberal education. Later in 1838, the college was shifted to its present campus at Annankunnu, offering an exuberant academic and non-academic arena to explore. When CMS was under the affiliation of Madras University, the college was recognized as the best college in the Madras Presidency at the time the university system was introduced in India. With its initiation of admitting women students in 1913, the college heralds its 100 years of education of women. During this period, CMS became a first-grade college with eight undergraduate and six postgraduate degree courses and the affiliation was shifted to Mahatma Gandhi University as a part of modernising education.

The transformation from complete emphasis on teaching and learning to equal emphasis on teaching, learning and research has been very swift and practical. The combined research output in terms of degrees awarded, papers published, and projects undertaken by the departments has been a progressive enterprise. Another revolutionary accomplishment was the institution’s switch to cyber mode. In 1985, when no other college in Kerala even thought of computers, CMS College

established a fully-fledged computer training centre on its campus. CMS College was one of the rare educational institutions with internet facilities in the mid-1990s.

The institution was an affiliated college from 1817 all the way up until 2015. It was during this time that the government suggested extending academic autonomy to the state's most prestigious institutions, and the College was very sure that we deserved the same treatment as they were offering. In the year 2016, the college became autonomous and in 2022, the autonomy status was re-established. The honourable President of India, Shri. Pranab Mukherjee inaugurated the bicentenary celebrations of the college on February 26, 2016 and the pursuit of celebrations marked its end with the valedictory function that had the honour of welcoming the archbishop of Canterbury to CMS. To date, the college has proudly owned its ethos and rationale for offering new and unprecedented avenues of academic excellence. With immense commitment and determined goals, CMS College continues to be an unabating presence of coherent and systematic educational principles of futuristic intent.

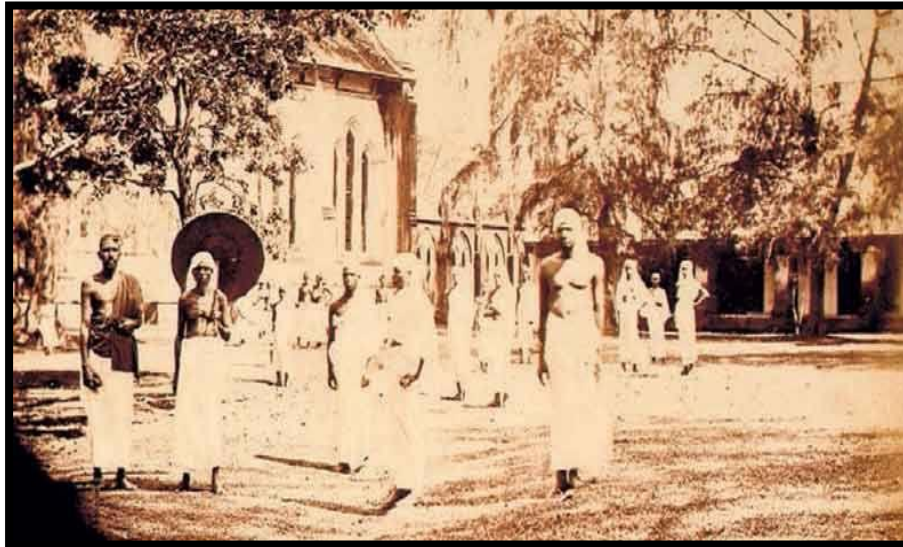
1.2 History of CMS College

Now thanks be unto God, which always causeth us to triumph in Christ, and maketh manifest the fragrance of his knowledge by us in every place. For we are unto God a sweet aroma of Christ. 2 Corinthians, 2: 14-15.

Two hundred years is but a tiny drop in the unceasing flow of cosmic time. On the human scale, however, it amounts to a life span of about ten generations. That is if the first-ever graduates of the college sent their children to CMS College Kottayam, and each succeeding generation did the same, they would have their 10th generation progeny studying here at present. This is only one indication of the antiquity of CMS College Kottayam in the history of higher education not just in Kerala, but in India as a whole. Yes, CMS College, Kottayam – The College Cotym in its original orthographic avatar – was born 200 years ago, in 1817.

The pre-natal history of the College, however, goes further back to the time when Colonel John Munroe assumed charge as the Dewan of Travancore. He was not just an administrator, but a visionary and social reformer. His zeal for social change is borne out by the pivotal role he played in the abolition of slavery in Travancore in 1813. The same zeal prompted Colonel Munroe to appoint a commission to inquire into the socio-economic conditions of Syrian Christians in the province. Soon after, he appealed to the British provincial capital in Madras to initiate the process

for starting a college in Kottayam. He also wrote to the Church Missionary Society, which had been established in 1799 with the avowed purpose of carrying out missionary and educational activities around the globe, requesting the society to depute highly qualified missionaries who would work as teachers in the college proposed to be set up in Kottayam. In the meantime, the British Parliament ratified a charter empowering East India Company to foray into missionary and educational work.



In the same year, i.e., in 1813, Maharani Gouri Lakshmi Bayi(1791-1815) of the Travancore Royal family granted 16 acres of land, 500 rupees in cash, and timber from public forests for the construction of college buildings on the banks of the Meenachil River. The construction was also supported financially by the proceeds from a deposit made by Col. Colin Macaulay, the first Resident of Travancore, for the benefit of Syrian Christians in Travancore.



In 1817, CMS Missionary, Rev. Benjamin Bailey took charge as the first Principal of The College. He laid the foundations of a modern secular education by implementing a curriculum with a strong concentration of subjects such as Syriac, Sanskrit, Latin, English, Greek, History, Mathematics, and Geography. Col. Munroe and Rev. Bailey were insistent that the academic programme at The College be no less rigorous than that at the University of Cambridge, even as the students used local materials like dried palm leaves and iron stencils instead of Western writing implements such as paper, pens, and quills. Selectee profanes, Virgil's Aeneid, Cicero's Orations, Horace's Epistles, and Demosthenes, the first six books of Euclid and plane and spherical trigonometry were part of the syllabus. The college continued to get generous funding from Maharani Gouri Parvathi Bayi(1802-53), and the East India Company.

The British administrators, The Travancore Royal Family, and The CMS missionaries were all convinced that education alone could lift the people of the province from injustice, ignorance, illness, and poverty that had been plaguing them for centuries. The College was their first step in this direction. And, The College rose magnificently to the challenge and became the nucleus of a revolution in the feudal, caste-ridden society of Kerala in early 19th Century.

Realizing that the students being prepared for university examinations lagged behind in English, Mathematics, and Physics, Rev. Joseph Fenn, who succeeded Rev. Bailey as Principal in 1818, initiated a feeder programme in the form of a Grammar School. Those who graduated out of Grammar School were able to meet the challenges of The College and the University. This Grammar School later evolved into a separate entity called CMS High School. The umbilical link between The College and the High School should not be lost sight of, nor should their histories be confused in chronological terms.

Though no longer the Principal, Rev. Bailey continued his association with The College in creative ways and set up Kerala's first printing press at The College in 1820. He designed the modern Malayalam script and adapted it for printing in his own printing machine. Later, during his visit to The College, His Royal Highness Swathi Thirunal of Travancore was so impressed by Rev. Bailey's invention that he invited Rev. Bailey to Thiruvananthapuram and entrusted him with the task of setting up a printing press in his capital city.

The contribution of the missionary teachers of The College to the development of Malayalam went beyond the application of printing technology to the language. Rev. Richard Collins, principal of the college from 1855 to 1866, established the Department of Malayalam with

a view to streamlining the teaching and learning of the native language of the students of The College. Exploiting the printing facility already available, the department published the first-ever College Magazine in South India, titled, 'Vidya Samgraham', meaning Anthology of Knowledge/Education in 1864. This magazine continues to be published today under the same name. In line with the best traditions of an institution of higher learning, The College inaugurated the era of scholarly publishing in Kerala. It is no surprise, therefore, that Kerala in general, and Kottayam in particular, can boast of a very high concentration of newspaper and magazine publishers, and publishers and sellers of academic books and journals.

The College has always enjoyed patronage from people belonging to different geographical areas. There are cases of students who travelled by bullock carts from distant places accompanied by their elder relatives and with provisions to cook food during the journey that sometimes took a few days. Kottayam, which was a small village with a population of only about 320, ensconced in pristine green surroundings, became a magnet that attracted knowledge seekers from far-off places. CMS College created the conditions for the transformation of this rural area into Kerala's 'aksharanagari' or city of letters, and eventually the first district in India to achieve 100% literacy towards the end of 20th Century.

The College welcomed students from different religious and ethnic affiliations. The College campus thus became a crucible of community life that transcended the traditional boundaries. Another important point not to be missed is that The College, despite offering English education, and despite being administered by English missionaries, did not produce conformists to the colonial rule. Inspired by the liberal ideas imbibed through their familiarity with western philosophers, the students of The College began questioning the continued presence of the British in India, and slogans demanding independence were raised resoundingly on The College campus.

The College, though situated geographically far from major centres of political and economic power, has always been in tune with the major social and educational trends of the times. The College is at present aided by the Government of Kerala and the U.G.C, and managed by the Church of South India. The College has full-fledge computational facilities, and the campus has been Wi-Fi-enabled for several years now. The College has been able to attract distinguished faculty members with unswerving commitment to their profession. Our students have distinguished themselves in various fields. Our present students continue the tradition of their predecessors and achieve distinction in cultural and sports activities as well as in academics. The

College considers itself fortunate to have been blessed with a multitude of highly talented students both in the past and the present.

The College and the land of Kerala can legitimately claim to have arrived at a symbiotic relationship at its best. The College has been the primal fount from which flowed the strong currents of knowledge and critical intelligence that changed the scholastic and socio-cultural landscape of Kerala and propelled the State to the forefront of social development. The Kerala society and the Kerala and Central Governments have openly asserted their pride in the achievements of The College and affirmed their commitment to support and strengthen The College in its pursuit of excellence.

Today The College is at a historical juncture. As we look back at the two centuries we have traversed, we see many things we can justifiably be proud of. Yet, as leaders of an institution engaged in the creation and propagation of knowledge with its ever-receding frontiers, we are filled as much with trepidation as with satisfaction as we look towards the future. We simply cannot rest on our laurels.

For, what remains to be achieved is much more than what we have achieved. It is not easy to make the college courses, curriculum, and infrastructure cope up with the changing demands of contemporary education and the job market. It is easy for an institution to slide into irrelevance and obsolescence unless great care is taken to stay in step with current trends. Our record till now, of course, fills us with confidence. But we are comforted more by the Word of God, which assures us that “He who began a good work in us will bring it to completion.” We know this by faith: He who called the founding fathers of The College Cotym in 1817 and has guided the college through two hundred golden years, will enable future generations of managers, teachers, and students to fulfil the mission that He, in His infinite wisdom and foresight, has mandated for CMS College, Kottayam.

1.3 Special Heritage Status

The college proudly holds and reflects its ceremonious special heritage status in its absolute sense. The embrace of the heritage, in its various forms, dates back to the time of our first principal, Rev. Benjamin Bailey. He paved the way for the progressive development of a quality education system with a diligent curriculum that had no match at that time in India.

The college social and cultural heritage was so instilled with a revolutionary spirit that it became a huge influence in redeeming the feudal, cast-ridden society of 19th century Kerala. Students of different religious and ethnic origins were welcomed without discrimination. Women were given the opportunity to learn and flourish at a time when no women were entertained in the academic scene. The college had its own ways of breaking the stereotypes, taboos and social stigmas that prevailed in society. The architectural heritage of the college is another sight of wonderment. History rests in every building on the campus where the chapel and classrooms tell tales of great legacy as they stand monumental to the gothic tradition of architecture. The institution tries to accommodate and design the traditional architecture in a way to suit the climactic conditions and landscape of Kerala and the legacy of the institution.

1.4 Vision and Mission

The CMS College endeavours to live up to its motto, "Thy Word is Truth" which inspired the founding fathers of the college to enlighten the populace of the region two centuries ago. The emblem of the college is a pictorial manifestation of the motto, upon which the vision, mission, and objectives are also established accordingly.

Vision: The CMS College shall be a centre of excellence for imparting value-based liberal education aimed at promoting inclusive and holistic growth of the learner with thrust on real-time needs.

Mission: The College strives to:

- Achieve excellence by imparting quality education through teaching, learning, research, and extension activities.
- Inculcate values of integrity, justice, and compassion in the young minds to keep alive the missionary zeal of the founders.
- Execute academic and administrative policies in a flexible environment.
- Ensure optimum utilization of resources for the benefit of society.
- Create awareness on human rights, cultural and spiritual heritage, scientific temper, and ecology.
- Empower students as the agents of transformation and equip them to face local and global challenges.

1.5 Governance, Leadership and Management

The governance, leadership and management of CMS College is reflective of an effective headship that is in line with the vision and mission of the institution which aims to evolve the college into a centre of academic excellence and enlightened debate. It seeks to achieve a wholesome synergy between academic practices, noncurricular responsibilities social cultural proclivities and empathy, thereby ensuring the benefit of all stakeholders particularly the student community that could develop to its fullest potential. While retaining its regional roots, CMS College is able to encompass and articulate global concerns and the wider social imperatives. The mission of the institution deliberates up on a holistic and enabling environment for students hailing from diverse demographics. On consistently upgrading its teaching-learning policy, methods and apparatus, the college is able to deliver its core services in a relevant and up-to-date manner. The effective incorporation of value-added, vocational and technical courses in its curriculum accedes a recognised stance in terms of academic diversity. The extension activities and outreach programmes as well as the efforts to partner with the government in the spread of continuing adult, mass education through the Open and Distance Modes contribute to the academic and social spheres.

1.6 NIRF Ranking

A college plays a pivotal role in not just enhancing the academic capabilities but also shaping the personalities of its students. The National Institutional Ranking Framework (NIRF), approved by the MHRD and launched by the Honourable



Minister of Human Resource Development on September 29, 2015, ranks the institutions across the country. The institution has been diligently working to fulfil all the parameters recommended by the

Core Committee set up by MHRD. The college recognized the broad parameters for ranking: "Teaching, Learning and Resources," "Research and Professional Practices," "Graduation Outcomes," "Outreach and Inclusivity," and "Perception". The vision of CMS College to progress further as a higher education institution has resulted in securing the 93rd and 81st positions in 2021 and 2022, respectively, in the All India National Level NIRF Ranking published by the Ministry of Education. The manager and the principal congratulated the faculty, students, non-teaching staff, alumni, parents and all other stakeholders for their unlimited support.



1.7 Highlights of the Year

1.7.1 QR Coding of Plants

In an effort to preserve, conserve and educate about the exuberant culture of flora and fauna on campus, each tree is QR coded. The initiative allows community members and visitors to



identify the vast foliage cover on the college campus by simply scanning the QR codes affixed to the trees. In just a scan, anyone can access its botanical name, common nomenclature in English and in vernacular language, ecological and taxonomic descriptions, medicinal importance and ornamental value. The digitised floristic diversity of the college campus was done in association with the Social Forestry Wing of the Kerala Forest Department. Further work is in progress to create a digital plant library of the campus with more than 500 species of plants and to map and manage their data using GPS and Geographic Information Systems technologies. Never before had this task been undertaken at this scale around the region and given the institution's leading interest in maintaining a balanced ecosystem, the project was funded by the management. The vast green coverage of the campus stayed as the lungs for the locality and the new venture helps to maintain the robust functions of the flora and fauna that host the community.

1.7.2 Divyangjan Friendly Toilet Block

The college has a diverse mix of historic and modern school buildings but, regardless of the architectural style, it is important to ensure safe and hygienic toilet facilities for students and teachers. The new toilets block for women with facilities like restroom, necessary amenities and provide users with adequate privacy. Has better accessibility conditions for differently-abled persons along with 31

other new toilets across the campus. The project is completed using the unutilized amount of the PD act from the government.

Toilet refurbishments generally take place when absolutely necessary, and yet these spaces can have

a profound effect on student concentration, morale and well-being. The ongoing upkeep of the toilet block is given prime importance. Scheduled regular checks by cleaning staff have been ensured.



1.7.3 Library Renovation

Higher education institutions are renovating their libraries to increase technology access, build more spaces for student collaboration and provide IT services. The traditional design for these learning spaces

no longer meets the needs of students, especially research scholars. Accordingly, the college decided to renovate the library space to meet users' academic needs, make the space concordant with technological development and



transform the philosophy behind running libraries. Complying with the higher educational objectives of cultivating talents from purely professional to comprehensive and innovative, the institution recognised that the simple storage and one-way transmission of knowledge in libraries no longer fit the mission of the traditional layout.

This recognition resulted in the construction of one of the biggest digital libraries in the world and a fund of Rs. 9,70,000 was contributed by the management. CMS



being a pioneer in every revolutionary change in HEIs, the institution has started emphasizing collaborative and social learning more than ever before with this renovation. The development of information technology has revolutionized readers' information-seeking habits, making it

important to provide relevant device technology and Internet support in the learning environment to improve users' learning efficiency and learning experience.

1.7.4 Neve Square

The College souvenir shop, Neve Square, one of its kinds in Kerala, is ruminative of the heritage of the college, as each curio is a piece of tangible evidence to relive the CMS experience. The authentic mementos of the campus can be the best novelty gifts to pass on the legacy of this 205-year old institution. The motive of the college behind this shop is reflective of the heritage of the college, as each curio is a piece of tangible evidence to relive the CMS experience. The Neve Square in all its glory is entitled the treasure house of collectibles for its sentimentality and rarity. The handwritten postcard by Mahatma Gandhi addressed to the then principal of CMS College, the first-ever dictionary, Benjamin Bailey's dictionary, the first ever college magazine and several academic books. From the artistic to the gaudy, from the unique to the commonplace, from a T-shirt to a teacup or a painting to a postcard are all displayed and sold here.



1.7.5 Digitization and Renovation

It is now widely accepted that any modern organization needs a digital strategy if it is to achieve its objectives and education sector are no exception. Anticipating the transformation towards digital technology, the college remodelled the office and the IQAC centre, aegis the RUSA fund. The college implemented the DDFS approved by the state government and segued into the digital file movement system without any impediments. The ordeal associated with the off-line mode of operation, with laborious and time-consuming processes of intake, storage and usage of data relating to admission, student management, staff management, examination, finance and administration, was minimized with the digitization of the office administration. The college

acknowledged and accepted the evolution and promoted e-governance through the upgrade of all administrative tasks to digital mode.



1.7.6 R. E. Newton Centre

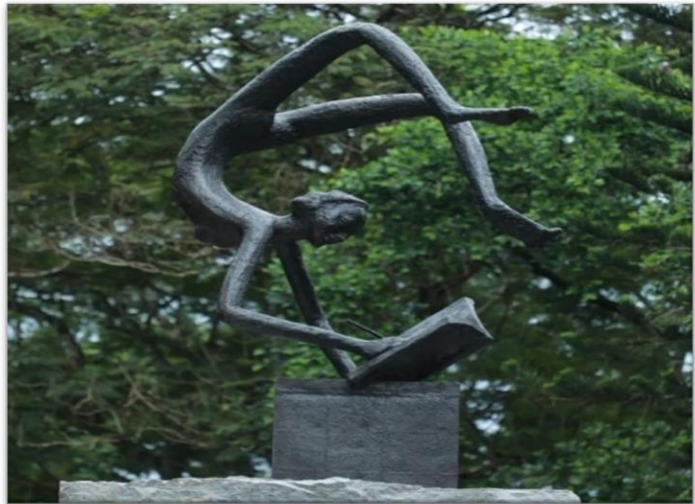
Career and job placement services are vital services that higher education institutions like CMS College provide for their students. The RE NEWTON Centre serves as a hub for innovation, incubation and entrepreneurship with the intention of harbouring and encouraging the entrepreneurial spirit and innovative ideas of the young students. The mission behind the establishment of the centre is to identify students with a zest for business, and give them training, guidance and the right platform. The introduction of the centre has been validated by its phenomenal contribution in serving as a link among the college, the industry and various institutions and industries.



As the centre liaises with various establishments, corporate/ business houses, the student can benefit largely from the conduct of campus interviews for select graduate and post-graduate students from all disciplines. The centre, as a Career Development cell, provides the infrastructural facilities to map steady progress over the years in enhancing the placement potential effectively. The centre interacts with many industries in the country, of which almost all the companies visit the campus for holding campus interviews. The services of the RE NEWTON Centre lead to the institution's contribution to society's human capital development by facilitating the development of employability and competencies among their students.

1.7.7 Sculpture Garden

Art is the antidote for troubled times; continuing its creative odyssey, CMS College has organized a project called 'Hues of Time' that ventures into different art forms like painting and sculpting. As a part of the artistic enterprise, the series attempts to explore the nuances of creativity in various art forms as the institution strives towards a conscious reflection of its heritage by moulding a community inspired by it. The college sculpture garden epitomizes the intention in its exhibition of a bewildering variety of stone sculptures, erected across the landscaped surroundings of the college. Each sculpture, representing the glory and grandeur of human history, is one of the largest monumental art schemes open to the public to savour. The colourful relief sculptures are a delightful sight on the walls lining the road leading to the main gate of the CMS College. The craft incites delight and excitement as the mastery of creation beholds a beautiful garden of curated sculpture spread over several acres.





1.7.8 Street Light Installation

More light on walkways and around academic buildings makes for a safer environment on campus. For a safer and well-lit environment, 36 streetlights were installed across the campus. Funded by PTA – Rs. 4,50,000.



1.7.9 Apiculture and Butterfly Garden

The college campus is set apart with rich flora and fauna, hence biodiversity studies on birds, dragonflies, butterflies, earthworms, ants and spiders can be carried out effectively. Expansion of the butterfly garden is ongoing Practical training is extended to students, in Apiculture (stingless bee culture), vermiculture, waste management and aquarium management incorporating research, extension, job training and consultancy. Vechur cow is conserved in the college under the supervision of the Zoology department. We have efficient faculty members for giving training in aquariummanagement, mushroom cultivation, apiculture, organic manure preparation etc. Open and well-situated bird baths in every corner of the campus to make it a natural abode of several bird species and help the student community to engage in Bird watching Programme and Bird survey.



1.7.10 Rewild Project

Preservation and restoration of ecology as major seminal factors, we hatched a plan to help not only the CMS community but people around us to visualize what a transition can look like to a more sustainable future with the re-wild project. The goal is to help nature rejuvenate so it can thrive into the future and is a long term goal of the college.

In the campus, we're surrounded by a huge variety of different types of plants and trees. CMS, is the habitat of 560 species of plants among which around 70 are endangered species. The first phase of the re-wild project was planting new varieties, around 400 new plants were brought into the campus, out of which 200 are new species. Funded by the management – Rs. 28,000. By planting more trees, we aim to restore the nature, repair damaged ecosystems and mitigate climate changes.



1.7.11 Adoor Gopalakrishnan Film Festival

In association with the Kottayam Film Society, the Adoor Gopalakrishnan Film Festival made its debut at the College Educational Theatre on July 8 and 9, 2022, to honour Adoor Gopalakrishnan, a renowned filmmaker in India. The film director, Shri. Jayaraj, served as



the main resource person and the festival was attended by 311 individuals. During the festival's two days, six Adoor Gopalakrishnan films were screened. The Kottayam and surrounding areas art-loving population and CMS College participants attended the film festival.



1.7.12 Collins Memorial Lectures

Instituted by the CMS College with the active participation of the Dept. of Malayalam, The Richard Collins Memorial Lectures serve as a tribute to one of the most illustrious Principals of the College, Rev. Richard Collins. It was Rev. Collins who wrote a dictionary and grammar in Malayalam and it was during his tenure that Vidya Sangrah, the first college magazine, was started. Eminent men of letters like Dr. V. S. Sharma and Dr. K. M. George have delivered these lectures over the years.

1.7.13 Askwith Scholarship

Despite the desire of all parents to provide their children with the greatest education possible, many cannot afford it, especially when they enter higher education. The high expense of accommodation and tuition fees frequently puts parents in a difficult situation. Scholarships for college



can be very useful in these circumstances. Since the scholarship money is not required to be repaid, both parents and kids can avoid accruing extra debt. A learner who has less debt is more productive in class because they are less stressed and under pressure to come up with the money to pay off their debts. The Askwith Scholarship provided by CMS College is open to students from underprivileged economic backgrounds. This scholarship offers students the opportunity to get the best quality education they deserve.

1.7.14 CMS Eduware

C.M.S College (Autonomous), Kottayam, is committed to provide secure and efficient IT-Infrastructure in terms of hardware, software and internet facilities. With a



substantial cluster of computers, computer hardware, related software and peripheral devices

which are assigned to different offices and learning programmes, the institution has attained digital sustainability. All software for administrative requirements, examination, admission, library management and other digital solutions for the functioning of the institutions are domestically developed. Student attendance, faculty work diary, fee remittance (payments and reports) is managed internally. Evaluation Management (internal and external examinations) and feedback (student, faculty and curriculum), Question Banks, Invigilator scheduling, Result monitoring are also covered by the software. Data is secured by https for CMS-Eduware as <https://services.cmscollege.ac.in/>. A software team caters to the complete IT related matters of the college through the college ERP, CMS Eduware making academic, administrative and admission process transparent.



1.7.15 University Youth Festival

The institution does not limit its objective of education just to impart academic knowledge, but also to ensure the overall development of students. CMS College educates and equips its students to meet the challenges in every field of life, be it educational, social or cultural. The Mahatma Gandhi University Youth Festival being an unparalleled forum for the students to test their intellectual and artistic prowess, the college offers the students to exhibit their skills and talents in the field of culture, literary and other activities on a common platform that helps to facilitate their overall development. Enlivening the notion, the students of CMS College bagged fourth prize in the MG University Youth Festival in the year 2021-2022. The institution applauded the competitive spirit of participation and the strength of camaraderie among the team members.



1.7.16 Benjamin Bailey Memorial Lecture 2021

To commemorate the great visionary, the revered, Benjamin Bailey, the college instituted a lecture series in 1983. Several luminaries have delivered the lecture over the years and the eminent personality who graced the occasion was Ms. Reema Poddar on the topic: "The Power of Exponentials" – Disruptive Technologies Driving Transformative Future Growth."

1.7.17 Vidyatharangam

The COVID-19 pandemic and the social distancing rules and lockdowns that followed have affected all aspects of society, including education. In order to keep education running, like all other institutions, CMS College had to quickly adapt to the change. The unprecedented push towards online learning has resulted in the essential need for digital devices of any kind. As some of the students faced financial constraints, the college offered a solution by providing more than 100 digital

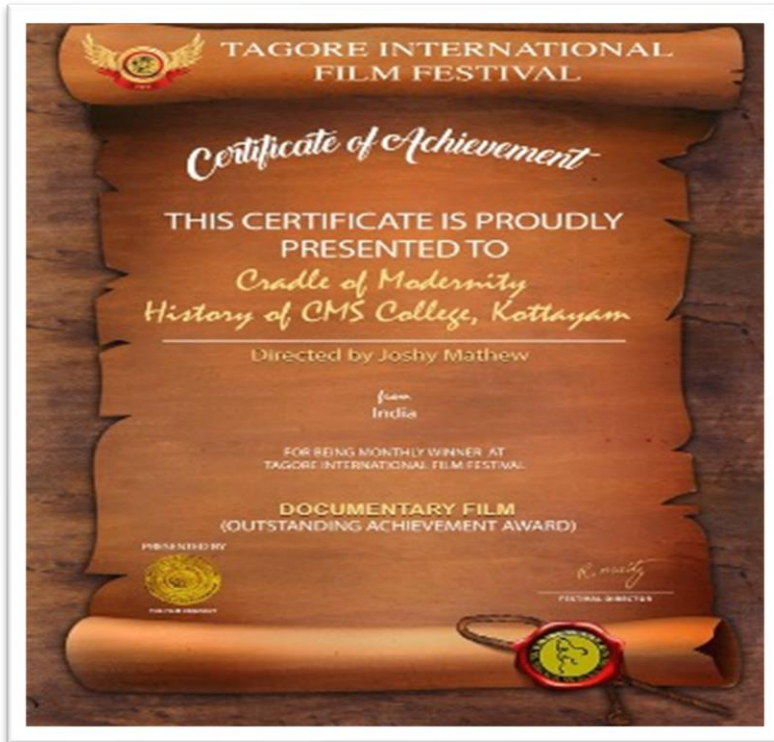


devices for the needy for learning purposes and the initiative named Vidyatharangam was inaugurated online to bridge the digital divide.

1.7.18 Documentary Film

CMS College documentary ‘Cradle of Modernity – History of CMS College, Kottayam’ bags the Special Jury Award at the Indo French International Film Festival and also grabbed the Outstanding Achievement Award in the documentary category at the 29th season of Tagore International Film Festival (TIFF). The craft also won the Critics’ Choice Award at 64th Season of the prestigious Calcutta International Cult Film Festival (CICFF). The film triumphed at the 7th Season of One Earth Awards, bagging the Gold Award for Best Short Film.







1.8 Departments

CMS College has twenty-three full-fledged academic departments offering both undergraduate and post-graduate degrees. In addition, students can be admitted into Ph.D programmes. The following list comprises the academic disciplines undertaken by the college. Master's programme was included in the Department of Commerce (SF) during the academic year 2021-2022.

Aided Streams

- Postgraduate and Research Department of Botany
- Postgraduate and Research Department of Malayalam
- Postgraduate and Research Department of Mathematics
- Postgraduate and Research Department of Chemistry
- Postgraduate and Research Department of Commerce
- Postgraduate and Research Department of English
- Postgraduate and Research Department of Zoology
- Postgraduate and Research Department of Physics
- Department of Family and Community Science
- Department of Statistics
- Department of Political Science
- Department of Sociology

- Department of Economics
- Department of Physical Education
- Department of Hindi
- Department of History

Self-financing Streams

- Department of Communicative English
- Department of Commerce
- Department of Vocation
- Department of History
- Department of Biotechnology
- Department of Computer Science
- Department of Family and Community Science

1.9. Faculty Details

CMS College has an enormous body of competent teaching faculty enrolled to the twenty-three departments of the institution. The phenomenal academic quality and expertise of the faculty members make CMS College one of the most desirable centres of academic excellence and intellectual exercise. The 2021-2022 academic year saw the appointment of the following faculty to the respective departments.

List of New Faculty Members

Name of the Faculty	Designation	Year of Joining	Nature of Appointment	Department
Mr. Amarish S	Assistant Professor	2021	Temporary	Vocation
Mr. Sudeep Cherian	Assistant Professor	2021	Temporary	Vocation
Ms. Meenu T Nadarajan	Assistant Professor	2021	Temporary	Vocation
Ms. Nayana Elizabeth Andrews	Assistant Professor	2021	Temporary	Vocation
Ms. Ragin Mariya Mathew	Assistant Professor	2021	Temporary	Vocation
Ms. Aswathy P R	Assistant Professor	2021	Temporary	Botany
Mr. Vineeth Johney	Assistant Professor	2021	Temporary	Commerce

Name of the Faculty	Designation	Year of Joining	Nature of Appointment	Department
Ms. Amrutha T	Assistant Professor	2021	Temporary	Commerce
Mr. Jebin George Bobby	Assistant Professor	2021	Temporary	Commerce
Mr. Savad K A	Assistant Professor	2021	Temporary	Commerce
Mr. Josemon Joy	Assistant Professor	2021	Temporary	Economics
Ms. Aswathy A	Assistant Professor	2021	Temporary	Physics
Ms. Maneesha George	Assistant Professor	2021	Temporary	Statistics
Ms. Aleena Elsa Mani	Assistant Professor	2021	Temporary	Zoology
Dr. Jeena Shaji	Assistant Professor	2021	Temporary	Communicative English
Dr. Rajeev R	Assistant Professor	2021	Temporary	Computer Science
Mr. Sujith P B	Assistant Professor	2021	Temporary	Zoology

1.10. Committees Functioning in the College

With the aim to improve the standards of teaching and research at various levels, the institution constitutes twenty-one committees attending the diverse affairs and activities of the college. Headed and supported by the distinctive faculty members, each committee periodically monitor and seek redressal to the concerns raised. The different committees include:

- IQAC
- Admission Committee
- UGC Committee
- Academic Affairs Committee
- Student Discipline Committee
- Student Welfare Committee
- Grievance Redressal Committee
- Anti-Ragging Committee
- Internal Complaints Committee (ICC)
- Equal Opportunities Cell for students with special needs
- Department Self-Assessment Committee
- Alumni Committee
- Purchase Committee
- Building Committee

- RUSA Committee
- PTA Executive Committee
- Research Ethics Committee
- Research Advisory Committee
- Extracurricular Affairs Committee
- SSP-WWS Monitoring Committee
- Village Extension Activity
- DBT Star College Scheme-Department Coordinators
- Industry Institute Interaction Cell
- Career guidance and Placement Cell
- Institution's Innovation Council
- Library Subcommittee
- College Union Committee
- Canteen Committee
- Hostel Committee

2. CURRICULUM DESIGN AND DEVELOPMENT

The goal of curriculum design and development is to communicate knowledge effectively to learners by creating an aggregate of the courses for study. It involves level of education, type, structure, educational technology, analysis of social needs, translating the needs etc., course, skills, work habits, means of assessment and attitudes.

2.1. Programmes Offered

UG Programme

Sl. No.	Programmes (UG)	Complementary Subjects	Mode	Seats
1	BA Economics	History, Political Science	Aided	40
2	BA English Language and Literature		Aided	50
3	BA Communicative English (Triple Main)		Self-Financing	30
4	BA History	Economics, Political Science	Aided	50
5	BA Malayalam Language and Literature		Aided	24

Sl. No.	Programmes (UG)	Complementary Subjects	Mode	Seats
6	B.Com Model I Finance & Taxation		Aided	50
	B.Com Model I Finance & Taxation (SF) (2 Batches)		Self-Financing	90 (2 Batch)
7	B.Sc Biotechnology & Botany (SF)		Self-Financing	30
8	B.Sc Botany	Chemistry, Zoology	Aided	48
9	B.Sc Chemistry	Mathematics, Physics	Aided	48
10	B.Sc Family & Community Science (Home Science)	Botany, Chemistry	Aided	36
11	B.Sc Mathematics	Physics, Statistics	Aided	50
12	B.Sc Physics	Mathematics, Statistics	Aided	48
13	B.Sc Zoology	Botany, Chemistry	Aided	48
14	BCA (SF)		Self-Financing	30
15	B.Voc Travel, Tourism & Logistics Management (SF)	Travel, Tourism and Logistics Management	Self-Financing	50
16	B.Voc Information Technology (SF)	Information Technology	Self-Financing	50

Programmes Offered – PG Programme

Sl No	Programmes (PG)	Mode	Seats
1	M.A English	Aided	25
2	M.A. Economics	Aided	20
3	M.A. Sociology	Aided	25
4	M.A. Malayalam	Aided	15
5	M.A History	Self-Financing	15
6	M.Sc. Botany	Aided	10
7	M.Sc. Biotechnology	Self-Financing	20
8	M.Sc. Chemistry	Aided	15
9	M.Sc. Analytical Chemistry	Aided	15
10	M.Sc. Applied Chemistry	Aided	15
11	M.Sc. Home Science – Food Service Management & Dietetics	Self-Financing	20
12	M.Sc. Physics	Aided	15
13	M.Sc. Applied Physics	Aided	10
14	M.Sc. Mathematics	Aided	25
15	M.Sc. Zoology	Aided	10
16	M.Com.	Aided	15
17	M.Com.	Self-Financing	30

2.2. Value Added Courses

The objective of Value-Added Courses is to supplement the curriculum, to make students develop their own interests and aptitudes and to offer corporate education, skill enhancing / career and market-oriented programmes to the student community that would empower the students for future successful employment. It introduces the students to latest technological developments and thereby helps them to build enriching careers. It also helps them to focus on what they are passionate about. By adopting the MOOC courses as the Value-Added Courses, the college hopes to encourage the students to tap into the resource pools of world renown education centres like Oxford, Cambridge, Yale etc., complete the course and gain the certificate. On producing these certificates at the college, the student will be eligible to gain additional credits along with their Degree. Students can pursue the courses along with their regular Degree programmes. The following value-added courses were provided by the institution, which are optional outside the curriculum of the various programmes.

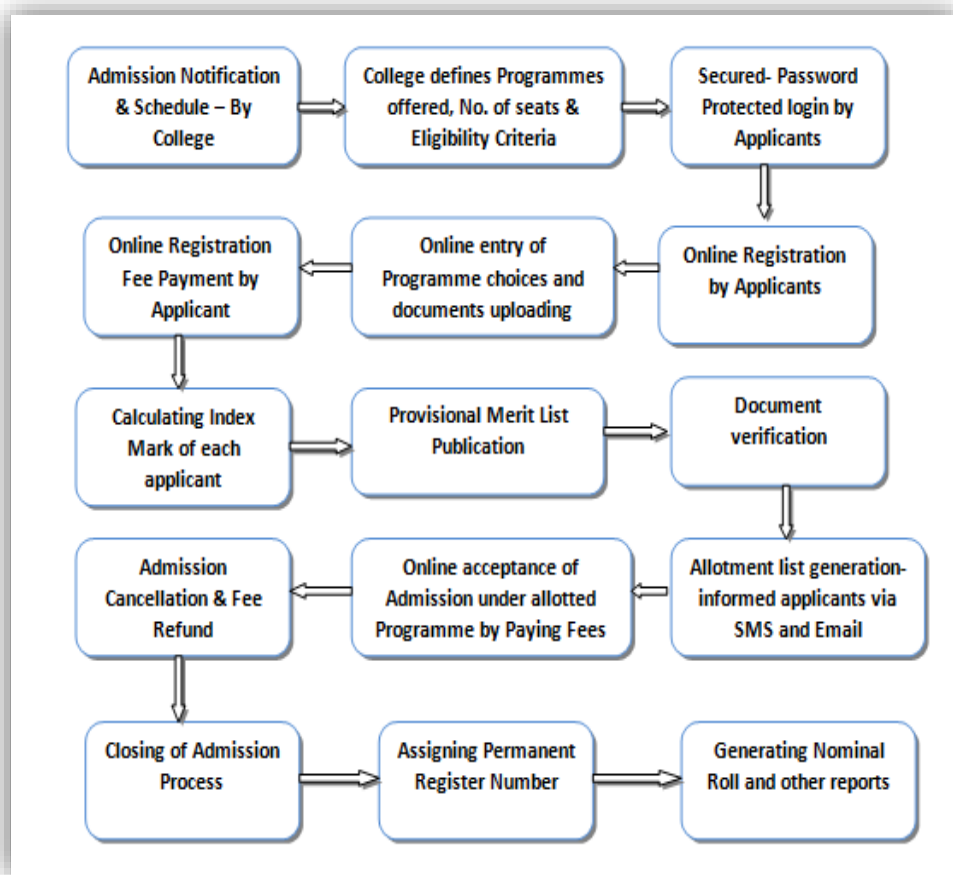
Sl.No	Name of the Course
1	IT Support Professional
2	Software Testing Foundations
3	Cyber Security
4	Customer Service Skills
5	Airport Ground Services
6	Safety and Security Services in an Airport
7	Computerized Accounting using Tally
8	Advanced Tally with GST
9	Data processing using excel
10	Advanced excel
11	Advanced Diploma in Medical Coding
12	Academic Communication and Publishing
13	Research Ethics Principles in Action
14	Water Quality Monitoring
15	Bakery and Confectionary
16	Applied Zoology For sustainable livelihood II
17	Digitrics: Dissecting spaces in Cyber Creativity
18	Certificate course in routine clinical laboratory techniques
19	Basic Python Programming
20	Computational Science
21	Careers in Printing and Publishing
22	Data Analysis using Excel
23	Processing of fruits and vegetables
24	Archival Science: Theory and Practice
25	Office Administration and Management

Sl.No	Name of the Course
26	Electronics and Maintenance of Home Appliances
27	Pathrapravarthanam(Journalism)

2.3 Admission

The institution has an internally developed digital solution that assists the management of student admissions. CMS Eduwaresoftware manages inquiries related to enrolments, document collection, and shortlisting of candidates and facilitates the completion of the admission process through online media.

Online Admission Management: Enhance the admission system in the institute by automating all the processes and tasks using CMS Eduware. The Online Admission System caters to all aspects of the institute’s admission process with the help of CMS Eduware. It helps in storing a complete database of student information, eligibility criteria, merit lists, fee structures, and news updates regarding the institute. Further, it gives restricted access to authorities based on their role and position in the institute.



Number of students admitted in 2021-2022

Programme Name	Programme Code	No of Seats Sanctioned	No of Students Admitted
B. A. English	BAEN	50	46
B. A. Malayalam (Model II) (Voc.)	BAML	24	24
B. A. History	BAHY	50	42
B. A. Economics	BAEC	40	44
B. A. Communicative English (TripleMain)(SF)	BACE	30	39
B. Sc. Mathematics	BSMT	50	25
B. Sc. Physics	BSPH	48	33
B. Sc. Chemistry	BSCH	48	35
B. Sc. Zoology	BSZY	48	42
B. Sc. Botany	BSBY	48	29
B. Sc. Family & Community Science (Home Science)	BSHS	36	11
B. Sc. Biotechnology and Botany (SF)	BSBT	30	32
BCA(SF)	BBCA	30	52
B. Com. Model I Finance & Taxation	BCCM	50	50
B. Com. Model I Finance & Taxation (SF)	BCCM	90	98
B. Voc. Information Technology (SF)	BVIT	50	33
B. Voc. Travel, Tourism & Logistics Management (SF)	BVTT	50	34
M. A. English	MAEN	25	24
M. A. Malayalam	MAML	15	13
M. A. Sociology	MSSY	25	22
M. Sc. Mathematics	MSMT	25	23
M. Sc. Physics	MSPH	15	12
M. Sc. Applied Physics	MSAP	10	7
M. Sc. Chemistry	MSCH	15	12
M. Sc. Analytical Chemistry	MSAN	15	11
M. Sc. Applied Chemistry	MSAC	15	11
M. Sc. Zoology	MSZY	10	8
M. Sc. Botany	MSBY	10	9
M. Sc. Biotechnology(SF)	MSBT	20	17
M. Com. Finance	MCCM	15	21
M. A. History(SF)	MAHY	15	10
M. Sc. Home Science- Food Service Management and Dietetics (SF)	MSHS	20	20
M. A. Economics	MAEC	20	17
M. Com. Finance (SF)	MCCM	30	13
Ph.D in English	PHEN	3	3
Ph.D in Physics	PHPH	4	4
Ph.D in Zoology	PHZY	5	5
Ph.D in Commerce	PHCM	4	4
Ph.D in Mathematics	PHMT	0	0
Ph.D in Zoology	PHZY	0	0
Ph.D in chemistry	PHCH	0	0

Programme Name	Programme Code	No of Seats Sanctioned	No of Students Admitted
Ph.D in botony	PHBY	0	0
Ph.D in Malayalam	PHML	0	0
Total Number of Students		1088	935

2.4 Student Orientation and Induction Programme

The juncture preceding the period of schooling is a crossroad where any undergraduate student embarks on decisive changes in academic life, anticipating beneficial results through higher levels of education offered by college or universities. CMS College offers effective student induction programmes at the outset of every academic year to help newly enrolled students to adapt and acclimatise themselves with the collegiate system of learning. In addition to instilling the ethos and culture of the institution, the programmes also enable them to develop a sense of solidarity that can enhance a purpose and community in the young minds through the exposures let opened to them throughout the years of academic exercise.

STUDENT INDUCTION PROGRAMME 2021

(For Undergraduate Students)

Live on College Official YouTube Channel

22 - 29 September 2021

Inauguration by



Dr. Mohan Thomas Pakalomattom

Otolaryngologist and Head & Neck Surgeon and Philanthropist

Schedule – General Orientation

Time	Programme	Speaker
Day I - General Induction Meet 2020 (22 September 2021, Wednesday)		
09:00am - 09:05am	Prayer	Rev. Cherian Thomas (Bursar)
09:05am - 09:15am	Welcome	Dr. Samkuttu George (Admission Officer)
09:15am - 09:25am	Presidential Address	Dr. Varghese C. Joshua (Principal)
09:25am - 10:30am	Inauguration and Keynote Address	Dr. Mohan Thomas Pakalamattom (Otolaryngologist and Head & Neck Surgeon and Philanthropist)
10:30am - 10:40am	Felicitation	Smt. Cinny Rachel Mathew (Vice Principal)
10:40am - 10:50am	Vote of Thanks	Dr. Joji John Panicker (Director, IQAC)
Day II (23 September 2021, Thursday)		
9.30am - 11.00am	Principal's Address	Dr. Varghese C. Joshua (Principal)
Day III (27 September 2021, Monday)		
09:30am - 10:15am	Higher Education & University System Autonomous System Functioning of CMS College	Dr. Joji John Panicker (Director, IQAC)
10:15am - 10:45am	Online Platforms of learning and opportunities after UG Programme	Mr. Vijo Kurian (Assistant Professor, Dept. of Zoology)
10:45am - 11:20am	Examination System	Dr. Rony Rajan Paul (Deputy Controller of Examinations)
11:20am - 11:30am	Functions of College Office	Mr. A. J. Thomas (Junior Superintendent)
Day IV (28 September 2021, Tuesday)		
09:30am - 9:45am	Library	Mr. Raysh Thomas (Librarian)
09:45am - 10:00am	Centre for Career Guidance and Placements	Mr. Sudeep Cheriyan (Director of Corporate Relations)
10:00am - 10:15am	Scholarships	Mr. Jacob Eapen Kunnath (Assistant Professor, Dept. of English)
10:15am - 10:30am	Statutory Bodies	Dr. Reenu Jacob (HOD, Dept. of Physics)
10:30am - 10:45am	Non-Statutory Bodies	Mrs. Minnie Mary Ninan (Assistant Professor, Dept. of Commerce)
10.45am - 11:00am	National Service Scheme (NSS)	Dr. Ajish K. R. (NSS Program Officer)
11:00am - 11:15am	National Cadet Corps (NCC)	Mr. Ditto Prasad (NCC Program Coordinator)
11.15am - 11.30am	Value Added Courses	Dr. Anju Sosan George (Coordinator, Value Added Courses)
Day V (29 September 2021, Wednesday) Department Orientation		
<ul style="list-style-type: none"> • Familiarization of the department and department level functions. • Introduce the faculty members. • Introduce the curriculum. • Mentoring and connecting with faculty members. 		

DEEKSHARAMBH STUDENT INDUCTION PROGRAMME 2021

(For Post Graduate Students)

Live on College Official YouTube Channel

25 – 27 October 2021



Inauguration by
Shri. K Jayakumar IAS

Former Chief Secretary, Govt. of Kerala
and Founding Vice-Chancellor,
Thunchath Ezhuthachan Malayalam University



Shri. K. Jayakumar IAS is a senior Indian Administrative Service (IAS) officer from Kerala who retired as the Chief Secretary, Govt. of Kerala. During his career Jayakumar held important bureaucratic positions at various levels in the Governments of Kerala and India. Jayakumar was honoured by presenting the first K. P. S. Menon Memorial Award in recognition to his distinguished service as a bureaucrat. He was also appointed as the first Vice-Chancellor of the Thunchath Ezhuthachan Malayalam University. Jayakumar is also a poet, lyricist, screenwriter and painter. He has written lyrics for nearly 100 Malayalam films and large number of songs for albums, television and radio. He has held solo exhibitions in India and abroad. He has authored over twenty five books. His translations are also well acclaimed.

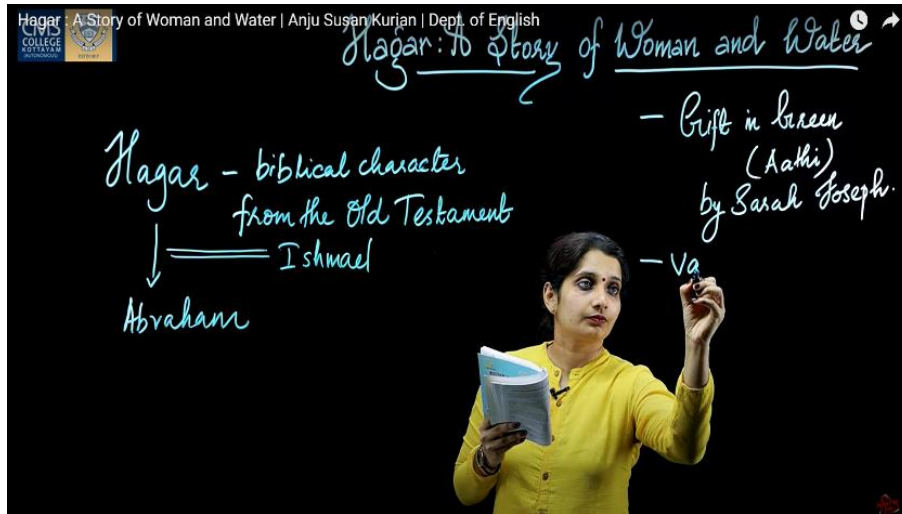
SCHEDULE

Time	Programme	Speaker
Day I - General Induction Meet 2021 (25 October 2021, Monday)		
09:30am -09:35am	Prayer	Rev. Cherian Thomas (Bursar)
09:35am -09:45am	Welcome	Dr. Samkully George (Admission Officer)
09:45am -10:00am	Presidential Address	Dr. Varghese C. Joshua (Principal)
10:00am -11:00am	Inauguration and Keynote Address	Shri. K. Jayakumar IAS (Former Chief Secretary, Govt. of Kerala and Founding Vice-Chancellor, Thunchath Ezhuthachan Malayalam University)
11:00am -11:15am	Felicitation	Smt. Cinny Rachel Mathew (Vice Principal)
11:15am -11:30am	Vote of Thanks	Dr. Ambly P. Mathew (Coordinator, PG Admissions)
Day II (26 October 2021, Tuesday)		
09:30am -10:00am	Ethos, Culture & Functioning of CMS College	Dr. Joji John Panicker (Director, IGAC)
10:00am -10:30am	Research & Higher Education opportunities after PG Programme	Dr. Vibin Ipe Thomas (Research Coordinator)
10:30am -11:00am	Examination System	Dr. Rony Rajan Paul (Deputy Controller of Examinations)
11:00am -11:15am	Library	Mr. Raysh Thomas (Librarian)
11:15am -11:30am	Centre for Career Guidance and Placements	Mr. Sudeep Cheriyan (Director of Corporate Relations)
11:30am -11:40am	Functions of College Office	Mr. A. J. Thomas (Junior Superintendent)
Day III (27 October 2021, Wednesday) Department Orientation		

2.5. Teaching Learning Techniques Used

The college is well resourced for a range of academic programmes. Supported by the expertise of eminent technicians, the institution maintains 86 well-ventilated, spacious classrooms, provided with black/ green/ white boards, adequate furniture and LED lights. There are 42 ICT enabled classrooms with LCD/TV/Smart boards and all rooms are facilitated with Wi-Fi/LAN facilities. To ensure substantial research activities, the college is equipped with 12 research rooms. All departments have separate faculty rooms and are provided with laptops, desktops, printers.

➤ CMS College YouTube channel



➤ Educational theatre



➤ EMMRC



➤ Lecture Capturing System



➤ Mixing Equipment's and Software for Editing



2.6. Evaluation System and Results

The term and semester examinations held by the college is scheduled by the Office of the Controller of Examinations. The office headed by the independent capacity of the Controller of Examinations (COE) declares and uploads the timetable for the examinations scheduled. The Exams are administered centrally by the Examinations Office. The official exam portal is activated prior to the commencement of the examinations. The Office appoints a Chief Superintendent and an Assistant Superintendent of Examinations, who in turn is assisted by a seven-member

team. Invigilator scheduling, Result monitoring and publishing are covered by the domestically developed software solution system (CMS Eduware).

Stages of Valuation Process

- Adding external valuator details
- Assign internal and external examiners to each course of each exam (assign answer script bundles to examiners)
- First and second valuation mark entry
- Generating third valuation list
- Assign examiners for third valuation.
- Third valuation mark entry

2.7. Result Analysis

Annual analysis of aggregate results helps to identify the areas of strength and weakness of the students and forecasts the deployment of requisites for improvement. The academic performance of students in majority of departments appears to have significantly improved based on the patterns of the 2021–2022 academic year.

Pass Percentage (2021-2022)

UG	81.21%
PG	85.71%

2.8. Awards/ Recognition

Scholarships

The institution recognises the academic proficiency of students through a copious number of honour systems that include awards, grants, scholarships, fellowships and freeships. During the 2021-22 academic year, CMS College honoured 2694 eligible students from various academic streams who were categorised under 18 schemes.

Number of students benefited by government scheme and amount		
Name of the scheme	Number of students	Amount
E GRANTZ- GENERAL	86	566995
E GRANTZ- OBC	131	799370

Number of students benefited by government scheme and amount		
Name of the scheme	Number of students	Amount
E GRANTZ- OBC(H)	30	620510
E GRANTZ- OEC	222	3804530
E GRANTZ- SC	200	3583615
E GRANTZ- ST	27	440580
BLIND/PH SCHOLARSHIP	1	4000
Central Sector Scheme Of Scholarships For Colleges And University Students	16	170000
CH Muhammedkoya Scholarship	9	46000
Fisheries Scholarship	4	67483
Hindi Scholarship	1	6000
Junior Research Fellowship	9	3564000
Kerala State Higher Education Scholarship	72	1896000
PG Indira Gandhi Scholarship For Single Girl Child	3	108600
Post Matric Scholarip Scheme- Minorities	10	51970
Prof. Joseph Mundassery Scholarship Award	3	17000
State Merit Scholarship	3	4500
Suvarna Jubilee Merit Scholarship	24	240000
Total	851	15991153
Number of students benefited by the institution's schemes and amount		
Name of the scheme	Number of students	Amount
Scholarship To Students	18	295500
Ardratha Fellowship	20	100000
Askwith Scholarship	2	67420
Koshy Mathew Scholarship	72	509000
Freeships To Students	1733	365710
George M Thomas Scholarship	7	7000
Total	1852	1344630

2.9 Feedback

CMS College Kottayam has established itself as a model of educational quality and innovation, having been unique from the outset. The university's IQAC has devised a feedback system that begins with a structured rating-based feedback form that gathers information from a

variety of stakeholders. The university solicits feedback from students, Faculties, alumni, and employers in order to enhance curriculum design and enrichment. For the 2021-22 session, the following is a study of stakeholder comments:

Student Feedback Analysis Report (Academic session 21-22)

Particular	Strongly Agree	Agree	Neutral	Disagree	Strongly Disagree
Curriculum and syllabus is well organised and suitable to the programme	59	39	2	0	0
Curriculum developed is relevant to the local/national/regional/global developmental needs and it is reflected in the Programme Specific Outcomes(PSOs) and Course Outcomes(Cos)	42	53	3	2	0
Curriculum integrates crosscutting issues relevant to Human Values/Environment/Sustainability	47	50	3	0	0
The contact hours stated in the syllabus is sufficient to complete the course within the stipulated time	37	61	2	0	0
Sufficient number of prescribed books and reference materials are available in the library	46	53	1	0	0
The syllabus generates interest in the subject area	51	46	2	1	0
Curriculum enrichment activities like field study and institute visits are included in the syllabus	40	58	2	0	0
Curriculum has prospects for higher education/employability/entrepreneurship/skill development	43	54	3	0	0
The curriculum has scope for internship/training/research	39	60	1	0	0

Faculty Feedback Analysis Report (Academic session 21-22)

Particular	Strongly Agree	Agree	Neutral	Disagree	Strongly Disagree
Curriculum developed is relevant to the local/national/regional/global developmental needs and it is reflected in the PSOs and Cos	39	56	5	0	0
The curriculum and syllabus content is well organised and suitable to the programme	60	33	7	0	0
Curriculum integrates crosscutting issues relevant to Human values/Environment/Sustainability	63	35	0	2	0

Particular	Strongly Agree	Agree	Neutral	Disagree	Strongly Disagree
PSOs and Cos are well defined and clear	56	43	0	1	0
There is provision for curriculum revision	53	46	0	1	0
Distribution of contact hours among the course components are sufficient and the syllabus can be covered within the given time	48	50	2	0	0
Sufficient number of prescribed books and reference materials are available in the Library	42	56	2	0	0
The Curriculum has prospects for higher education/employability/entrepreneurship/skill development	31	68	1	0	0
The curriculum has a scope for internship/training/research	35	63	2	0	0
Give your observation/suggestions to improve the overall teaching-learning experience in your departments	27	68	4	1	0

Employer Feedback Analysis Report (Academic session 21-22)

Particular	Strongly Agree	Agree	Neutral	Disagree	Strongly Disagree
The curriculum is need based and meets the expectation for employment	56	43	1	0	0
The syllabus has good balance between theory and application	58	41	1	0	0
The Curriculum has prospects for higher education/employment	59	39	0	2	0
Awareness on the recent developments in the field provided	55	42	3	0	0
The curriculum makes the student competent	48	51	0	1	0
The curriculum can help the student to begin new ventures as it provides entrepreneurial motives	41	50	8	1	0

Alumni Feedback Analysis Report (Academic session 21-22)

Particular	Strongly Agree	Agree	Neutral	Disagree	Strongly Disagree
The curriculum fulfils the prerequisites needed for employment/higher education	49	49	2	0	0
The syllabus generates interest in the subject area	51	48	1	0	0

Particular	Strongly Agree	Agree	Neutral	Disagree	Strongly Disagree
The design of the course encourages self-learning	53	46	1	0	0
The curriculum ensures overall development of student	47	52	0	1	0
The Curriculum has been helpful to you with your present status/employment/higher education	43	55	2	0	0

2.10 Faculty Enrichment Programmes

Faculty Orientation Programme

In order to inculcate the philosophy of education and the pedagogy of Indian system of education, the college organises effective faculty orientation programmes on a regular basis. The programmes entail components that thrust up on the linkages between society, environment, development and education, knowledge generation, management, personality development and resource awareness.

Dates	Title of the professional development program/administrative training program organised for teaching and non-teaching staff	No. of participants
18-04-2022	Quality Training Programme on Examination	8
10-02-2022	Webinar on National Higher Education Qualification Framework (NHEQF)2022	53
04-12-2021	Administrative Training Programme	20
01-10-2021	Webinar on SAAC: Context and Content	20
24-09-2021 to 25-09-2021	Two-Day Symposium on 'Strategies for Preparation of Self-Study Report for NAAC Reaccreditation'	18
22-09-2021	One-Day Training Program on Quality Management Systems in Higher Education	9
06-09-2021	Inter Personality Skills Development Workshop	11
05-08-2021 to 19-08-2021	Managing Online Classes and Co-creating MOOCS 7.0	43
19-06-2021	Identification of Statistical Tools for Data Analysis using MS Excel-statistical tests	9
07-06-2021 to 11-06-2021	Five-Day Faculty Development Programme on 'NAAC Assessment and Accreditation Process in the Revised Accreditation Framework'	82
10-06-2021	Identification of Statistical Tools for Data Analysis using MS Excel-concepts and variables	9
09-06-2021	Identification of Statistical Tools for Data Analysis using MS Excel-hypotheses	9

2.11. Projects

The college regularly receives grants from government and non-governmental agencies for research projects, endowments, and Chairs. During the 2021-2022 academic year, faculty members from two different departments of the institution have undertaken government funded research projects.

Sl. No	Name of the Principal Investigator/ Co-Investigator	Name of the Funding agency	Type (Government/ Non-Gov)	Department of Principal Investigator/ Co-Investigator	Funds received (INR in lakhs)	Duration of the project
1.	Dr Basil George	KSCSTE	Government	Botany	8.28	3 years
2.	Dr Ambily P Mathew	DST	Government	Mathematics	98.25254	3 years

3. RESEARCH

3.1. Research Centres

The departments of Botany, Chemistry, Commerce, English, Physics, Mathematics, Zoology and Malayalam are the recognized research centres at CMS College, Kottayam, with fifteen active research guides. research guides. Awards for the completion of Ph. Ds, Research Innovation awards, Research Excellence awards, and Lifetime achievement awards (Bailey Medal) are provided to deserving scholars for promoting quality research output.

The college receives funding from SERB, DBT, RUSA, SAP, UGC, KSCSTE, and CPE to enhance the overall infrastructure facilities of research. An extension of the Mahatma Gandhi University Library (MG Study Centre) on the campus deserves special mention because it is a digitized and fully automated library with Koha software for library management and the institutional software repository platform Dspace along with Turnitin software for plagiarism checking. Quillbot and Grammarly (access through INFED-Shibboleth) software are available for promoting quality publications and dissertations. Considering the potential consequences of plagiarism, the college's plagiarism-checking software takes steps to avoid it.

The college's Seed Money Grants are flexible in nature, allowing recipients to use the funds in whatever manner that suits the project at hand. These are valuable sources of financial support to help launch innovative research projects and scholarly activities in areas where external

funding is limited or unavailable. These grants enable researchers to explore new fields of study and acquire the necessary resources to begin their projects.

Research orientation sessions are organized in the college for the students to understand what is expected of them in terms of coursework, projects, and other assignments. The presence of both PG and UG students is encouraged in seminars, workshops, open defence and viva-voce to familiarize them with the college's research activities. Scholar-in-Residence programmes, Bilateral research programmes, and international research collaborations with the Institute of Applied Mathematical Research, Karelian Research Centre of Russian Academy of Science, Petrozavodsk State University and NAMRC with Toyo University, Japan are organized to magnify the research objectives of the college. The college offers 24-hour accessibility to research labs, spacious conference halls and a separate workspace for all research scholars and research guides. The Chief Research Facilities such as Common Instrumentation Centre, Central Computing Facility, Internet facility, NLIST access, and reference library are open to researchers. The college has spent an enormous amount for creating, developing and maintaining the research-promoting facilities.

3.2. Research Guides

Quality of research is fundamental to the academic policy of the college. The expertise and commitment of the eminent research supervisors in the institution have contributed to substantial research projects of outstanding merit. The institution has 8 active research centres with fifteen supervising teachers.

Sl No	Name	Department
1.	Dr. Tomy Mathew	Commerce
2.	Dr. Roy Sam Daniel	Commerce
3.	Dr. Varghese C.Joshua	Mathematics
4.	Dr. Hari N	Botany
5.	Dr. Elizabeth Cherian	Botany
6.	Dr. Ravikumar C	Physics
7.	Dr. Jobin Mathew	Zoology
8.	Dr. Basil George	Botany
9.	Dr. Joji John Panicker	English

Sl No	Name	Department
10.	Dr. Arun Kumar K V	Physics
11.	Dr. Sumi Mary Thomas	History
12.	Dr.Rogimon P Thomas	Botany
13.	Dr. Susan Mathew	English
14.	Dr. Anju Sosan George	English
15.	Dr. Aleena Manoharan	English
16.	Dr. Preema C Thomas	Physics
17.	Dr. Vibin Ipe Thomas	Chemistry
18.	Dr. Sosamma Oomman	Zoology
19.	Dr. Rony Rajan Paul	Chemistry
20.	Dr. Nisha P Aravind	Zoology
21.	Dr. Vimal Kurien	Commerce

3.3. List of Research Scholars

1	Regn. No. & Year: 157/2021	Name: Titus Augustine	Subject/ Specialization: English
	Mode of research: Part Time	Name of Supervising teacher: Dr Aleena Manoharan	Centre of research: CMS College, Kottayam
	Title of research: The Canons of the Synod of Diamper: A Revisit into its Historical, Political and Ideological Contexts		
2	Regn. No. & Year: 144/2021	Name: Ann Sebastian	Subject/ Specialization: History
	Mode of research: Full Time	Name of Supervising teacher: Dr Sumi Mary Thomas	Centre of research: Assumption College, Changanassery
	Title of research: Recalling Memories : Mapping the History of Indian National Congress in Kerala (1920-1978)		
3	Regn. No. & Year: 222/2020	Name: Lakshmi S	Subject/ Specialization: History
	Mode of research: Full Time	Name of Supervising teacher: Dr Sumi Mary Thomas	Centre of research: Assumption College, Changanassery
	Title of research: Care Under the Crown : Medical Interventions in Princely Travancore		

4	Regn. No. & Year: 113/2021	Name: Arjun Suresh P	Subject/ Specialization: Physics
	Mode of research: Full Time	Name of Supervising teacher: Dr Arun Kumar K V	Centre of research: CMS College, Kottayam
Title of research: Structural, Electrical and Optical Characterization of Plasmonic FAPBI3 Perovskite in Solar Cells			
5	Regn. No. & Year: 114/2021	Name: Athira Maria Johnson	Subject/ Specialization: Physics
	Mode of research: Full Time	Name of Supervising teacher: Dr Arun Kumar K V	Centre of research: CMS College, Kottayam
Title of research: Structural, Dielectric and Optical Studies of Rare Earth Ions/Plasmonic Nanoparticles doped SCL-GEL Synthesized Glass Multicomponent			
6	Regn. No. & Year: 242/2021	Name: Aleena Elsa Mani	Subject/ Specialization: Zoology
	Mode of research: Full Time	Name of Supervising teacher: Dr Nisha P Aravind	Centre of research: CMS College, Kottayam
Title of research: Biogenic Synthesis of Metal Nanoparticles and Their Potential Applications			

3.4. Research Publications

A research publication is any readily available artefact which has conceded peer review, hence determining the output of research. Publishing the research works in a public domain is vital to the evaluation of the research activity by the academic audience for it increases the visibility and credibility of researchers and opens prospects for future research. The faculty at CMS College are encouraged to publish research articles, which is important for maintaining academic standards.

Sl No	Title of Paper	Name	Department	Journal	Year
1	A comprehensive checklist of the earthworms (Annelida: Clitellata: Megadrili) of Sri Lanka, a component of the Western Ghats - Sri Lanka biodiversity hotspot	Kurien V.T., et. al.	Zoology	Travaux du Museum National d'Histoire Naturelle Grigore Antipa	2021
2	Soil organic carbon pool under selected tree plantations in the Southern Western Ghats of Kerala, India	Kurien V.T., et. al.	Zoology	Tropical Ecology	2021
3	Adenosine deaminase modulates metabolic remodeling and orchestrates joint destruction in rheumatoid arthritis	Kannan V., et. al.	Biotechnology	Scientific Reports	2021

Sl No	Title of Paper	Name	Department	Journal	Year
4	Elevated dimethylarginine, ATP, cytokines, metabolic remodeling involving tryptophan metabolism and potential microglial inflammation characterize primary open angle glaucoma	Kannan V., et. al.	Biotechnology	Scientific Reports	2021
5	Nucleotides modulate synoviocyte proliferation and osteoclast differentiation in macrophages with potential implications for rheumatoid arthritis	Kannan V., et. al.	Biotechnology	3 Biotech	2021
6	Investigating the association between common DRD2/ANKK1 genetic polymorphisms and schizophrenia: a meta-analysis	Sheshdeh A., Paul P.M., Sahraian A., Faghihi M.A et. al.	Biotechnology	Journal of Genetics	2021
7	Angiosperm diversity of agro-ecosystems - a case study from kooroppada grama panchayath, Kottayam, kerala.	Rogimon P. Thomas, Sreekumar K.R., et. al.	Botany	Ecology Environment and Conservation	2021
8	A Review on Anatomical Methods In Plant Systematics.	N. Hari. et. al	Botany	Plant Archives	2021
9	Barcoding of matk and rbc1 locus of <i>Strobilanthes hamiltoniana</i> (steud.) bosser & heine	N. Hari. et. al	Botany	Life Sciences International Research Journal	2021
10	Microscopic diagnosis of the leaf and stem of <i>dodonaeviscosa</i> (L.) jacq., in india.	N. Hari. et. al	Botany	Life Sciences International Research Journal	2021
11	Significance of trnh-psba marker over matk during barcoding analysis of two <i>jasminum</i> species in kerala.	N. Hari. et. al	Botany	Life Sciences International Research Journal	2021
12	Histological, histochemical and molecular characterisation of <i>cinnamomum riparium</i> gamble.	Hari N. et. al	Botany	Life Sciences International Research Journal	2021
13	Synergetic effect of classical music in <i>vigna unguiculata</i> (L.) walp.	Hari N. et. al	Botany	Life Sciences International Research Journal	2021

Sl No	Title of Paper	Name	Department	Journal	Year
14	Exogenous carbon source and phytohormone supplementation enhanced growth rate and metabolite production in freshwater microalgae <i>Scenedesmus obtusus</i> Meyen	Basil George et. al	Botany	Bioresource Technology Reports	2021
15	Natural Rubber/Carbon Nanotube/ Ionic Liquid Composite Membranes: Vapor Permeation and Gas Permeability Properties	Laly A Pothen	Chemistry	Macromolecular Symposia	2021
16	Preparation of pH sensitive film based on starch/carbon nano dots incorporating anthocyanin for monitoring spoilage of pork	Laly A Pothen	Chemistry	Food control	2021
17	Theoretical investigation into the mechanism of copper-catalyzed Sonogashira coupling using trans-1,2-diamino cyclohexane ligand	Vibin Ipe Thomas	Chemistry	Polyhedron	2021
18	A Tunable Plasmonic Refractive Index Sensor with Ultrabroad Sensing Range for Cancer Detection	Vibin Ipe Thomas	Chemistry	Plasmonics	2021
19	Low cost, high efficiency flexible supercapacitor electrodes made from areca nut husk nanocellulose and silver nanoparticle embedded polyaniline	Sunish K S	Chemistry	RSC Advances	2021
20	High power flexible supercapacitor electrodes based on a surface modified C60 – β Ni(OH) ₂ nanocomposite	Sunish K S	Chemistry	Materials Today Communications	2021
21	Evaluation of Mg[B(HFIP) ₄] ₂ -Based Electrolyte Solutions for Rechargeable Mg Batteries	B. Muralikrishna	Chemistry	ACS Applied Materials & Interfaces	2021
22	Using Homo-enolate Annulated products For synthesis of Indole Embedded Derivatives	Rony Rajan Paul	Chemistry	Asian Journal of Chemistry	2021
23	Performance of managed funds: a conceptual study with respect to the theory of efficient market hypothesis	Minnie Mary Ninan & Dr. Tomy Mathew	Commerce	The journal of oriental research madras	2021

Sl No	Title of Paper	Name	Department	Journal	Year
24	Role of Pinterest in consumer choices among youth- A study with special reference to users in southern region of Kerala	Sarina Thomas	Commerce	International Journal of creative research thoughts	2021
25	Role of social media influencers in consumer buying behaviour: a study with reference to Kottayam Town	Sarina Thomas	Commerce	International Journal of commerce and management research	2021
26	Unemployment in graduated women: A study with special reference to Kottayam district	Sarina Thomas	Commerce	Paripex-Indian Journal of Research	2021
27	Impact of youtube advertising towards consumer buying behaviour among youth in Kottayam Town	Sarina Thomas	Commerce	PENSEE	2021
28	MMAP/(PH,PH)/1 Queue with Priority Loss through Feedback	Krishnamoorthy A., et. al..	Mathematics	Mathematics	2021
29	Analysis of a Batch Arrival, Batch Service Queuing- Inventory System with Processing of Inventory While on Vacation	Krishnamoorthy A., Joshua V. C., et. al.	Mathematics	Mathematics	2021
30	A multi-server heterogeneous queuing-inventory system with class-dependent inventory access	Krishnamoorthy A., et. al.	Mathematics	Mathematics	2021
31	Queueing-inventory with one essential and m optional items with environment change process forming correlated renewal process (Mep)â€	Krishnamoorthy A., et. al.	Mathematics	Mathematics	2021
32	A BMAP/BMSP/1 Queue with Markov Dependent Arrival and Markov Dependent Service Batches	Krishnamoorthy A., Joshua V. C., et. al.	Mathematics	Journal of Industrial and Management Optimization	2021
33	On a queueing-inventory system with impatient customers, advanced reservation, cancellation, overbooking and common lifetime	Shajin D., Krishnamoorthy A.	Mathematics	Operational Research	2021
34	Analysis of a k-stage bulk service queuing system with accessible	Krishnamoorthy A., Joshua V C., et. al.	Mathematics	Mathematics	2021

Sl No	Title of Paper	Name	Department	Journal	Year
35	Encryption using semigroup action	Anooja. I, Vinod S, Biju G.S	Mathematics	Ratio Mathematica - Journal of Mathematics, Statistics and Applications	2021
36	Enduring Imprints of British Regime in Munnar	Sumi Mary Thomas	History	International journal of research in economics & social sciences	2021
37	The beginning of the administrative renaissance in Travancore	Renju Ramachandran	History	ECONSPEAK: A Journal of Advances in Management IT & Social Sciences,	2021
38	Colossal magnetoresistance of Nd-doped LaCaMnO ₃ polycrystalline Ceramics	Arun Kumar K V	Physics	Processing and applications of Ceramics	2021
39	A study on magnetic and spin polarized electric transport properties of cation doped LaCaMnO ₃ perovskite ceramic system	Sam Rajan	Physics	OP Conference Series: Materials Science and Engineering	2021
40	Structural and vibrational spectral contributions to the nonlinear optical properties of 2-Amino-3-nitropyridinium 4-hydroxybenzenesulfonate: A DFT study	C. Ravikumar	Physics	Journal of Molecular Structure	2021
41	Ion acoustic shock waves with drifting ions in a five component cometary plasma	Neethu Theresa Willington, et al	Physics	Advances in Space Research	2021
42	CASSPER is a semantic segmentation-based particle picking algorithm for single-particle cryo-electron microscopy	Blesson George, et. al.	Physics	Communications Biology	2021
43	Investigation of the Photoluminescence and Nonlinear Optical Properties of Ce ₂ O ₃ -TiO ₂ Nanocomposites	Seema R	Physics	Journal of Nanoscience and Nanotechnology	2021

Sl No	Title of Paper	Name	Department	Journal	Year
44	Marker Based Identification and Phylogenic Analysis of Heterotermes Malabarcus Snyder	Jobin Mathew	Zoology	Proceedings of UGC Sponsored National Conference on Recent Trends In Biology	2021
45	A study on magnetic and spin polarized electric transport properties of cation doped LaCaMnO ₃ perovskite ceramic system	Sam Rajan	Physics	IOP Conference Series :Materials Science and Engineering	2021
46	Tribal life in COVID times: An appraisal of mannan tribes in kumaly, kerala	Lekshmi S Kaimal and Ani Merly Paul	Sociology	Bharata matha journal of multidisciplinary studies	2021
47	Kim Scott: Articulation of narrative patterns	Aleena Manoharan	English	Malayalam Research Journal	2021
48	Chodiyakadalasennasankalpavumkeralathilaestreepadnacoursukalum	Amrutha Rinu Abraham	Sociology	Sameeksha: Sociology Research Journal	2021
49	Novel health protocols and hygiene practices: A covid 19 repercussion	Lekshmi S Kaimal, Ani Merly Paul	sociology	Kerala Sociologist	2021
50	Child Induced consumerism and influence on parent-child relationship: A sociological enquiry	Lekshmi S Kaimal and Ani Merly Paul	Sociology	A Biannual Journal of Interdisciplinary studies and research	2021

3.4.1 Books/Proceedings/Conferences

Name of the Faculty	Name of the Book	Title of the Chapter	Year	ISBN	Name of the Conference
Prisho Mariam Paul	NIL	An Immunoinformatics Study to Predict the Mutational Effect of B Cell Epitopes in E and M Protiens of SARS CoV-2 Indian Delta Variants	2021	978-93-83409-66-2	International e-Conference on Bioengineering for Health and Environment
Delsey M J	Artificial Intelligence and IoT	Recognizing Tropical Cyclone Formation from Satellite Image Data	2021	978-981-33-6399-1	Springer , Singapore

Name of the Faculty	Name of the Book	Title of the Chapter	Year	ISBN	Name of the Conference
Dr. Vijo Kurien	Unfolding Botanical Knowledge: A Compilation of Research Papers in Life Sciences	A Study on Litter Dynamics of Selected Land Use Systems of Southern Western Ghats of Kerala	2021	978-81-954765-0-3	CMS College, Kottayam (Autonomous)
Dr. Rogimon P Thomas	Unfolding Botanical Knowledge :A Compilation of Research Papers in Life Sciences	Notes on taxonomic, ecological and phytochemical review studies on Rauvolfia serpentina	2021	978-81-954765-0-3	CMS College, Kottayam (Autonomous)
Dr. Rogimon P Thomas	Unfolding Botanical Knowledge: A Compilation of Research Papers in Life Sciences	A Review Study on the Taxonomy and Phytochemistry of Lesser kurinji Strobilanthes cillates Nees	2021	978-81-954765-0-3	CMS College, Kottayam (Autonomous)
Dr. Rogimon P Thomas	Unfolding Botanical Knowledge :A Compilation of Research Papers in Life Sciences	Notes on Taxonomy and Phytochemistry of Ixora	2021	978-81-954765-0-3	CMS College, Kottayam (Autonomous)
Dr. N Hari	Unfolding Botanical Knowledge: A Compilation of Research Papers in Life Sciences	Documentation and Studies on Riparian Vegetation of Meenachil River, Kottayam District	2021	978-81-954765-0-3	CMS College, Kottayam (Autonomous)
Dr. N Hari	Unfolding Botanical Knowledge: A Compilation of Research Papers in Life Sciences	Histological and Histochemical Study on Leaf Anatomy of Cinnamomum riparium Gamble	2021	978-81-954765-0-3	CMS College, Kottayam (Autonomous)
Dr. Elizabeth Cherian	NIL	Histological impact of zinc accumulation in Eichhornia crassipes (Mart) Solms	2021	978-81-951912-5-3	Kerala Academy of Sciences, Thriuvananthapuram
Dr. Elizabeth Cherian	Bioenergy Crops: A sustainable means of Phytoremediation	Water Hyacinth: A Potent Source for Phytoremediation and Biofuel Production	2021	978-1-003-04352-2	CRC Press

Name of the Faculty	Name of the Book	Title of the Chapter	Year	ISBN	Name of the Conference
Tilda Mary Daniel	An Anthology of Multi-Functional Perspectives in Business and Management Research	Exchange Rate Exposure, International Activity Levels and Hedging: Evidence from Indian Pharmaceutical Industry	2021	978-93-91260-11-8	Eureka Publications
Dr. Joji John Panicker	Diasporic Literature	Americanah: A Kaleidoscopic view on Migration and Return Migration	2021	978-93-91201-47-0	OM Sai Publisher and Distributors
Dr. Jeena Shaji	Perspective Patterns in Women's Cinema	NIL	2021	978-81-954429-0-4	Lekhit Publications
Santhini Thomas	Vamsheya Bhasha Vevaharam	Keezhala Varga Bhasha Preyogangalum Sammanya Gana Jeevitha Aavishkarangalum	2021	97893-90520-68-8	The State Institute of Languages, Thiruvananthapuram
Mini Mariam Zachariah	Vamsheya Bhasha Vevaharam	Keezhala Svathathinte Thiricharivu	2021	97893-90520-68-8	The State Institute of Languages, Thiruvananthapuram
Dr.Daisy Abraham	Vamsheya Bhasha Vevaharam	Pradeshika Bhasha Marakkappile Theyangalil	2021	97893-90520-68-8	The State Institute of Languages, Thiruvananthapuram
K. V. Arun Kumar	Nanotechnology-Enhanced Solid Materials Design, Synthesis, Properties, Applications, and Perspectives	Photovoltaics Applications of Solid Carbons in Molecular Forms	2021	97817-74912201	Apple Academic Press Inc
Dr. Preema C Thomas	New Insights into Physical Science Vol. 12	Emphasizing Growth and Thermal Studies of Doped and Pure Crystals of L-Argininium Dinitrate	2021	978-93-90516-78-0	Book Publisher International
Ani Merely Paul and Dr. Lekshmi S Kaimal	Pandemic- Coping and Resilience Reflections of the Elderly	Anxiety and Coping Methods: Elderly & COVID -19 Pandemic	2021	978-1-68576-035-9	InSc publication house (IPH)

Name of the Faculty	Name of the Book	Title of the Chapter	Year	ISBN	Name of the Conference
Varghese C. Joshua,A. Krishnamoorthy	NIL	A Queueing System with Probabilistic Joining Strategy for Priority Customers	2021	978-3-030-72247-0	Springer, Cham
Thomas R.P., Raj S., Vinod V., Kannan V. Manian	Pandemics and Global Health	EPIDEMICS AND PANDEMICS: THE KERALA MODEL	2021	978-1-68507-228-5	Nova Science Publishers
Jacob S., Ajith P.S., Arya M.B., Abin D., Thomas R.P., Paul J.	Pandemics and Global Health	HUMAN DIASPORA AND PANDEMICS:A REVIEW IN THE CONTEXT OF COVID-19	2021	978-1-68507-228-5	Nova Science Publishers
Vinila V.S., Isac J.	Design, Fabrication, and Characterization of Multifunctional Nanomaterials	Synthesis and Structural Studies of Superconducting Perovskite $GdBa_2Ca_3Cu_4O_{10.5+d}$ Nanosystems	2021	978-0-12-820558-7	Elsevier Publications
Krishnamoorthy A., Joshua V C.	NIL	Analysis of a Batch Service Queueing System Associated with Inventory Transport	2021	978-3-030-92506-2	Springer, Cham
Mathew N, Joshua V.C., Krishnamoorthy A.	NIL	On an MMAP/(PH, PH)/1/(∞ , N) Queueing-Inventory System	2021	978-3-030-72246-3	Springer, Cham
Ranjith K.R., Krishnamoorthy A., Gopakumar B., Nair S.S.	NIL	Analysis of a Single Server Queue with Interdependence of Arrival and Service Processes - A Semi-Markov Approach	2021	978-3-030-72246-3	Springer, Cham
AL Maqbal K.A.K., Joshua V.C., Krishnamoorthy A.	NIL	On a Single Server Queueing Inventory System with Common Lifetime for Inventoried Items	2021	978-3-030-72246-3	Springer, Cham

Name of the Faculty	Name of the Book	Title of the Chapter	Year	ISBN	Name of the Conference
Dr.Vijo Kurien	Environmental Biology and Humanrights	Environmental Biology and Human rights	2021	978-81-936818-62	Zoological Society of Kerala
Radhika G	Historical Development of Tribes and Contributions in Developing Social Systems	NIL	2021	978-93-93253-02-6	Ryan Publishers
V.C. Joshua, A. Krishnamoorthy	NIL	Token Based Parallel Processing Retrial Queueing system with a Probabilistic Joining Strategy for Priority Customers	2021	978-3-030-66242-4	Springer, Cham
V. C Joshua, A. Krishnamoorthy	NIL	On a single server Queueing Inventory System	2021	978-3-030-66471-8	Springer, Cham
Nisha Mathew, V.C. Joshua, A. Krishnamoorthy	NIL	A queueing Inventory System with Two channels of Service	2021	978-3-030-66471-8	Springer, Cham
V. C. Joshua, Ambily P. Mathew, A. Krishnamoorthy	NIL	A Retrial queueing System in which the Server Searches to Accumulate Customers for Optimal Bulk Serving	2021	978-3-030-66471-8	Springer, Cham
Varghese C. Joshua	NIL	A Disease Outbreak Managing Queueing System with Self-generation of Status and Random Clock for Quarantine Time	2021	978-3-030-66242-4	Springer , Cham
Dr. Sibin Mathew Medayil	Ageing Care and Wellbeing Reinventing Social gerontology	A Sustainable Framework for Elderly Wellbeing: A Socio Legal Approach	2021	978-81-316-1127-2	Rawat Publications
Dr. Reenu Jacob	NIL	Estimation of viscoelastic properties of jute- reinforced BST-PP Composites based on predicted theoretical models	2021	20075	AIP Conference Proceeding

3.4.2 Paper Publications

Title of Paper	Authors	Department	Journal	Year
A comprehensive checklist of the earthworms (Annelida: Clitellata: Megadrili) of Sri Lanka, a component of the Western Ghats - Sri Lanka biodiversity hotspot	Narayanan S.P., Kumari S., Kurien V.T., Thomas A.P., Paliwal R., Julka J.M.	Zoology	Travaux du Museum National d'Histoire Naturelle Grigore Antipa	2021
Soil organic carbon pool under selected tree plantations in the Southern Western Ghats of Kerala, India	Kurien V.T., Thomas E., Prasanth Narayanan S., Thomas A.P.	Zoology	Tropical Ecology	2021
Adenosine deaminase modulates metabolic remodeling and orchestrates joint destruction in rheumatoid arthritis	Bhagavatham S.K.S., Khanchandani P., Kannan V., Potikuri D., Sridharan D., Pulukool S.K., Naik A.A., Dandamudi R.B., Divi S.M., Pargaonkar A., Ray R., Santha S.S.R., Seshagiri P.B., Narasimhan K., Gumdal N., Sivaramakrishnan V.	Biotechnology	Scientific Reports	2021
Elevated dimethylarginine, ATP, cytokines, metabolic remodeling involving tryptophan metabolism and potential microglial inflammation characterize primary open angle glaucoma	Pulukool S.K., Bhagavatham S.K.S., Kannan V., Sukumar P., Dandamudi R.B., Ghaisas S., Kunchala H., Saieesh D., Naik A.A., Pargaonkar A., Sharma A., Sivaramakrishnan V.	Biotechnology	Scientific Reports	2021
Nucleotides modulate synoviocyte proliferation and osteoclast differentiation in macrophages with potential implications for rheumatoid arthritis	Bhagavatham S.K.S., Kannan V., Darshan V.M.D., Sivaramakrishnan V.	Biotechnology	3 Biotech	2021
Investigating the association between common DRD2/ANKK1 genetic polymorphisms and schizophrenia: a meta-analysis	Habibzadeh P., Nemati A., Dastsooz H., Taghipour Sheshdeh A., Paul P.M., Sahraian A., Faghihi M.A	Biotechnology	Journal of Genetics	2021

Title of Paper	Authors	Department	Journal	Year
Angiosperm diversity of agro-ecosystems - a case study from kooroppada grama panchayath, Kottayam, kerala.	Rogimon P. Thomas, Sreekumar K.R., Bijeshmon P.P. and Joby Paul.	Botany	Ecology Environment and Conservation	2021
A Review On Anatomical Methods In Plant Systematics.	N. Hari. et. al	Botany	Plant Archives	2021
Barcoding of matk and rbcl locus of <i>Strobilanthes hamiltoniana</i> (steud.) bosser & heine	N. Hari. et. al	Botany	Life Sciences International Research Journal	2021
Microscopic diagnosis of the leaf and stem of <i>dodonaea viscosa</i> (L.) jacq., in india.	N. Hari. et. al	Botany	Life Sciences International Research Journal	2021
Significance of trnh-psba marker over matk during barcoding analysis of two <i>jasminum</i> species in kerala.	N. Hari. et. al	Botany	Life Sciences International Research Journal	2021
Histological, histochemical and molecular characterisation of <i>cinnamomum riparium</i> gamble.	Hari N. et. al	Botany	Life Sciences International Research Journal	2021
Synergetic effect of classical music in <i>vigna unguiculata</i> (L.) walp.	Hari N. et. al	Botany	Life Sciences International Research Journal	2021
Exogenous carbon source and phytohormone supplementation enhanced growth rate and metabolite production in freshwater microalgae <i>Scenedesmus obtusus</i> Meyen	Basil George et. al	Botany	Bioresource Technology Reports	2021
Natural Rubber/Carbon Nanotube/Ionic Liquid Composite Membranes: Vapor Permeation and Gas Permeability Properties	Laly A Pothen	Chemistry	Macromolecular Symposia	2021
Preparation of pH sensitive film based on starch/carbon nano dots incorporating anthocyanin for monitoring spoilage of pork	Laly Apohen	Chemistry	Food control	2021

Title of Paper	Authors	Department	Journal	Year
Theoretical investigation into the mechanism of copper-catalyzed Sonogashira coupling using trans-1,2-diamino cyclohexane ligand	Vibin Ipe Thomas	Chemistry	Polyhedron	2021
A Tunable Plasmonic Refractive Index Sensor with Ultrabroad Sensing Range for Cancer Detection	Vibin Ipe Thomas	Chemistry	Plasmonics	2021
Low cost, high efficiency flexible supercapacitor electrodes made from areca nut husk nanocellulose and silver nanoparticle embedded polyaniline	Sunish K S	Chemistry	RSC Advances	2021
High power flexible supercapacitor electrodes based on a surface modified C60 – β Ni(OH) ₂ nanocomposite	Sunish K S	Chemistry	Materials Today Communications	2021
Evaluation of Mg[B(HFIP) ₄] ₂ -Based Electrolyte Solutions for Rechargeable Mg Batteries	B. Muralikrishna	Chemistry	ACS Applied Materials & Interfaces	2021
Using Homoenate Annulated products For synthesis of Indole Embedded Derivatives	Rony Rajan Paul	Chemistry	Asian Journal of Chemistry	2021
Performance of managed funds: a conceptual study with respect to the theory of efficient market hypothesis	Minnie Mary Ninan & Dr. Tomy Mathew	Commerce	The journal of oriental research madras	2021
Role of Pinterest in consumer choices among youth- A study with special reference to users in southern region of Kerala	Sarina Thomas	Commerce	International Journal of creative research thoughts	2021
Role of social media influencers in consumer buying behaviour: a study with reference to Kottayam Town	Sarina Thomas	Commerce	International Journal of commerce and management research	2021
Unemployment in graduated women: A study with special reference to Kottayam district	Sarina Thomas	Commerce	Paripex-Indian Journal of Research	2021
Impact of youtube advertising towards consumer buying behaviour among youth in Kottayam Town	Sarina Thomas	Commerce	PENSEE	2021

Title of Paper	Authors	Department	Journal	Year
M MAP/(PH,PH)/1 Queue with Priority Loss through Feedback	Nair D.V., Krishnamoorthy A., Melikov A., Aliyeva S.	Mathematics	Mathematics	2021
Analysis of a Batch Arrival, Batch Service Queuing-Inventory System with Processing of Inventory While on Vacation	Krishnamoorthy A., Joshua V. C., Kozyrev D.	Mathematics	Mathematics	2021
A multi-server heterogeneous queuing-inventory system with class-dependent inventory access	Rasmi K., Jacob M.J., Rummyantsev A.S., Krishnamoorthy A.	Mathematics	Mathematics	2021
Queueing-inventory with one essential and m optional items with environment change process forming correlated renewal process (Mep)	Jacob J., Shajin D., Krishnamoorthy A., Vishnevsky V., Kozyrev D.	Mathematics	Mathematics	2021
A BMAP/BMSP/1 Queue with Markov Dependent Arrival and Markov Dependent Service Batches	Krishnamoorthy A., Joshua V. C., Kozyrev D.	Mathematics	Journal of Industrial and Management Optimization	2021
On a queueing-inventory system with impatient customers, advanced reservation, cancellation, overbooking and common life time	Shajin D., Krishnamoorthy A.	Mathematics	Operational Research	2021
Analysis of a k-stage bulk service queuing system with accessible b	Krishnamoorthy A., Joshua V. C., Kozyrev D.	Mathematics	Mathematics	2021
Encryption using semigroup action	Anooja.I, Vinod S, Biju G.S	Mathematics	Ratio Mathematica - Journal of Mathematics, Statistics and Applications	2021
Enduring Imprints of British Regime In Munnar	Sumi Mary Thomas	History	International journal of research in economics & social sciences	2021
The beginning of the administrative renaissance in Travancore	Renju Ramachandran	History	ECONSPEAK: A Journal of Advances in Management IT & Social Sciences,	2021

Title of Paper	Authors	Department	Journal	Year
Colossal magnetoresistance of Nd-doped LaCaMnO ₃ polycrystalline Ceramics	Arun Kumar K V	Physics	Processing and applications of Ceramics	2021
A study on magnetic and spin polarized electric transport properties of cation doped LaCaMnO ₃ perovskite ceramic system	Sam Rajan	Physics	IOP Conference Series: Materials Science and Engineering	2021
Structural and vibrational spectral contributions to the nonlinear optical properties of 2-Amino-3-nitropyridinium 4-hydroxybenzenesulfonate: A DFT study	C. Ravikumar	Physics	Journal of Molecular Structure	2021
Ion acoustic shock waves with drifting ions in a five component cometary plasma	Neethu Theresa Willington, Anu Varghese et al	Physics	Advances in Space Research	2021
CASSPER is a semantic segmentation-based particle picking algorithm for single-particle cryo-electron microscopy	Blesson George, Anshul Assaiya	Physics	Communications Biology	2021
Investigation of the Photoluminescence and Nonlinear Optical Properties of Ce ₂ O ₃ -TiO ₂ Nanocomposites	Seema R	Physics	Journal of Nanoscience and Nanotechnology	2021
Marker Based Identification and Phylogenetic Analysis of <i>Heterotermes Malabarcus Snyder</i>	Jobin Mathew	Zoology	Proceedings of UGC Sponsored National Conference on Recent Trends In Biology	2021
A study on magnetic and spin polarized electric transport properties of cation doped LaCaMnO ₃ perovskite ceramic system	Sam Rajan	Physics	IOP Conference Series : Materials Science and Engineering	2021
Tribal life in COVID times: An appraisal of mannan tribes in kumaly, kerala	Lekshmi S Kaimal and Ani Merly Paul	Sociology	Bharata matha journal of multidisciplinary studies	2021

Title of Paper	Authors	Department	Journal	Year
Kim Scott: Articulation of narrative patterns	Aleena Manoharan	English	Malayalam Research Journal	2021
Chodiyakadalasennasankalpavu mkeralathilaestreepadnacoursuk alum	Amrutha Rinu Abraham	Sociology	Sameeksha: Sociology Research Journal	2021
Novel health protocols and hygiene practices: A covid 19 repercussion	Lekshmi S Kaimal, Ani Merly Paul	sociology	Kerala Sociologist	2021
Child Induced consumerism and influence on parent-child relationship: A sociological enquiry	Lekshmi S Kaimal and Ani Merly Paul	Sociology	A Biannual Journal of Interdisciplinary studies and research	2021

3.5. Collaborations

Collaborations in institutes of higher education can take numerous forms, including joint research projects and exchange programmes for students and staff. Higher education institutions that work together to achieve shared goals can reap benefits that are good for all parties involved, including students, faculty, and the community at large. When colleges work together, they are able to do more than they could on their own and create a more stable foundation for their future achievements. At CMS College Kottayam, joint research projects are truly collaborations between faculty members from other universities. These collaborations have the potential to result in creative research projects that are beneficial to both of the participating institutions. When researchers combine their resources and their experience, they are better able to solve difficult challenges and generate new information.

3.6. List of MoU

Sl. No.	Name of the Organisation with which MoU is active	Duration
1	Brunel University, London & Savitribai Phule University	2 years
2	Unibiosys Biotech Research Labs, Cochin, Kerala	1 year
3	SB College Changanacherry	1 year

Sl. No.	Name of the Organisation with which MoU is active	Duration
4	K M Mani Centre for Budget Research, Pala, Kerala, India	2 years
5	Logic Management Training Institutes Private Limited, Kottayam, Kerala, India	2 years
6	Alhind Academy, Kottayam	1 year
7	Government College, Kottayam	1 year

3.7. Collaborative Research

Sl. No.	Title of the collaborative activity	Name of the collaborating agency	Name of the participant	Duration
1.	A Comprehensive Checklist of the Earthworms (Annelida: Clitellata: Megadrili) of Sri Lanka, a Component of the Western Ghats - Sri Lanka Biodiversity Hotspot	Advanced Centre of Environmental Studies and Sustainable Development, Mahatma Gandhi University, Faculty of Basic Sciences, Shoolini University, Solan – 173 212, Himachal Pradesh	Vijo Thomas Kurien	Two years
2.	Analysis of a Batch Service Queueing System Associated with Inventory Transport	Department of Mathematics, Cochin University of Science and Technology, Cochin	Krishnamoorthy A.	Two years
3.	On an MMAP/(PH, PH)/1/(\hat{z} , N) Queueing-Inventory System	BK College Amalagiri, Kottayam Kerala	Varghese C. Joshua	Two years
4.	Analysis of a Single Server Queue with Interdependence of Arrival and Service Processes - A Semi-Markov Approach	Government Engineering College, Thrissur	Krishnamoorthy A.	Two years
5.	Theoretical Investigation into the Mechanism of Copper-catalyzed Sonogashira Coupling using Trans-1,2-diamino Cyclohexane Ligand	Government Polytechnic College, Chelakkara	Vibin Ipe Thomas	Two years
6.	Dust Acoustic Solitary Waves in a Five Component Commentary Plasma with Dust Charge Variation	International School of Photonics, Cochin University of Science and Technology, Kochi, School of Pure and Applied Physics, Mahatma Gandhi University	Neethu T.W.	Two years

Sl. No.	Title of the collaborative activity	Name of the collaborating agency	Name of the participant	Duration
7.	Using Homoenolate Annulated Products for Synthesis of Indole Embedded Derivatives	Department of Chemistry, Nehru Arts and Science College, Kanhangad, Kelappaji College of Agricultural Engineering and Technology, Agricultural University, Tavanur	Rony Rajan Paul	Two years
8.	Analysis of a Batch Arrival, Batch Service Queuing-Inventory System with Processing of Inventory While on Vacation	Department of Mathematics, Union Christian College, Aluva, Applied Probability and Informatics Department, Peoples' Friendship University of Russia (RUDN University), 6 Miklukho-Maklaya St, 117198 Moscow, Russia, V.A. Trapeznikov Institute of Control Sciences of Russian Academy of Sciences	Krishnamoorthy A.	Two years
9.	Analysis of a K-stage Bulk Service Queuing System with Accessible Batches for Service	Department of Mathematics, Union Christian College, Aluva 683102, India, V. A. Trapeznikov Institute of Control Sciences of Russian Academy of Sciences	Krishnamoorthy A.	Two years
10.	Soil Organic Carbon Pool under Selected Tree Plantations in the Southern Western Ghats of Kerala, India	School of Environmental Sciences, Mahatma Gandhi University, Kottayam, India, Advanced Centre of Environmental Studies and Sustainable Development, Mahatma Gandhi University, Kottayam	Elvin Thomas	Two years
11.	High Power Flexible Supercapacitor Electrodes based on a Surface Modified C60 – β Ni(OH) ₂ Nanocomposite	Advanced Molecular Materials Research Centre, Mahatma Gandhi University, Kottayam, Kerala, India, Department of Mechanical Engineering & Research, Ramaiah Institute of Technology, Bangalore, Department of Mechanical Engg, GITAM School of Technology, Nagadenahalli, School of Chemical Sciences, Mahatma Gandhi University, Kottayam	Sunish K. Sugunan	Two years

Sl. No.	Title of the collaborative activity	Name of the collaborating agency	Name of the participant	Duration
12.	A Multi-server Heterogeneous Queuing-Inventory System with Class-dependent Inventory Access	Department of Mathematics, National Institute of Technology Calicut, Kozhikode 673601, Kerala, India, Institute of Applied Mathematical Research, Karelian Research Centre, Russian Academy of Sciences, 185910 Petrozavodsk, Russia, Department of Applied Mathematics and Cybernetics, Petrozavodsk State University, Russia	Krishnamoorthy A.	Two years
13.	On a Queueing-inventory System with Impatient Customers, Advanced Reservation, Cancellation, Overbooking and Common Life Time	Department of Mathematics, Sree Narayana College, Chempazhanthy, Trivandrum	Krishnamoorthy A.	Two years
14.	Natural Rubber/Carbon Nanotube/Ionic Liquid Composite Membranes: Vapor Permeation and Gas Permeability Properties	Department of Chemistry N.S.S. Hindu College Changanasery, International and Inter University Center for Nanoscience and Nanotechnology Mahatma Gandhi University, Kottayam, India, School of Chemical Science Mahatma Gandhi University Kottayam	Laly A. Pothan	Two years
15.	MMAP/(PH,PH)/1 Queue with Priority Loss through Feedback	Department of Mathematics, NSS College, Cherthala 688556, India, Centre for Research in Mathematics, CMS College, Kottayam 686001, India, Institute of Control Systems, National Academy of Science, Baku AZ 1148, Azerbaijan, Applied Mathematics and Cybernetics, Baku State University, Baku AZ 1148, Azerbaijan	Krishnamoorthy A.	Two years
16.	Preparation of pH Sensitive Film based on Starch/carbon Nano Dots Incorporating Anthocyanin for Monitoring Spoilage of Pork	Department of Chemistry, Bishop Moore College, Mavelikara, 690101, University of Kerala, Kerala, India, Department of Chemistry and Polymer Chemistry,	Laly A. Pothan	Two years

Sl. No.	Title of the collaborative activity	Name of the collaborating agency	Name of the participant	Duration
		Kumbalathu Sankupillai Memorial Devaswom Board College, Kollam, 690521, University of Kerala, Kerala, India, Department of Botany and Biotechnology, Bishop Moore College, Mavelikara, 690101, University of Kerala, Kerala, India, International and Interuniversity Centre for Nanoscience and Nanotechnology, Mahatma Gandhi University, Kottayam, 686560, Kerala, India		
17.	Low Cost, High Efficiency Flexible Supercapacitor Electrodes made from Areca nut Husk Nanocellulose and Silver Nanoparticle Embedded Polyaniline	Advanced Molecular Materials Research Centre, Mahatma Gandhi University, Kottayam, Kerala, India, Department of Chemistry, Kottayam CMS College (Autonomous) – affiliated to Mahatma Gandhi University, Kottayam, Kerala, India, Dept. of Mechanical Engineering, Ramaiah Institute of Technology, Bangalore, India, School of Chemical Sciences, Mahatma Gandhi University, Priyadarshini Hills, Kottayam, Kerala, India	Sunish K. Sugunan	Two years
18.	A BMAP/BMSP/1 Queue with Markov Dependent Arrival and Markov Dependent Service Batches	Department of Mathematics Union Christian College, Aluva-683102, India	Krishnamoorthy A.	Two years
19.	Estimation of viscoelastic properties of jute-reinforced BSFT-PP composites based on the predicted theoretical models	Department of Physics, Saintgits College of Engineering, Kottayam, Kerala, India	Jacob R., John R.E.	Two years
20.	Investigating the association between common DRD2/ANKK1 genetic polymorphisms and	Persian Bayan Gene Research and Training Center, Shiraz University of Medical Sciences, Shiraz, Iran, Student Research Committee,	Paul P.M.	Two years

Sl. No.	Title of the collaborative activity	Name of the collaborating agency	Name of the participant	Duration
	schizophrenia: a meta-analysis	Shiraz University of Medical Sciences, Shiraz, Iran, Italian Institute for Genomic Medicine (IIGM), University of Turin, Turin, Italy, Research Center for Psychiatry and Behavioral Sciences, Shiraz University of Medical Sciences, Shiraz, Iran, Center for Therapeutic Innovation, Department of Psychiatry and Behavioral Sciences, University of Miami Miller School of Medicine, Miami, USA		
21.	A Tunable Plasmonic Refractive Index Sensor with Ultrabroad Sensing Range for Cancer Detection	Department of Physics, Assumption College, Changanacherry, 686101, Kottayam, Kerala, India	Vibin Ipe Thomas	Two years
22.	Ion acoustic shock waves with drifting ions in a five component cometary plasma	School of Pure & Applied Physics, Mahatma Gandhi University, Kottayam 686 560, Kerala, India, Artificial Intelligence Research and Intelligent Systems, Thelliyoor 689 544, Kerala, India	Neethu T.W.	Two years
23.	Evaluation of Mg[B(HFIP) ₄] ₂ -Based Electrolyte Solutions for Rechargeable Mg Batteries	Department of Chemistry, Bar-Ilan University, Ramat Gan 5290002, Israel	Krishna B.M.	Two years
24.	Nucleotides modulate synoviocyte proliferation and osteoclast differentiation in macrophages with potential implications for rheumatoid arthritis	Disease Biology Lab, Department of Biosciences, Sri Sathya Sai Institute of Higher Learning, Puttaparthi, Anantapur, 515134, Andhra Pradesh, India	Kannan V.	Two years
25.	Elevated dimethylarginine, ATP, cytokines, metabolic remodeling involving tryptophan metabolism and potential microglial inflammation characterize primary open angle glaucoma	Disease Biology Lab, SSSIHL-Agilent Center for Excellence in Multiomics and Cell Sciences, Dept. of Biosciences, Sri Sathya Sai Institute of Higher Learning, Prasanthi Nilayam, Anantapur, Andhra Pradesh, 515 134, India,	Kannan V.	Two years

Sl. No.	Title of the collaborative activity	Name of the collaborating agency	Name of the participant	Duration
		Leeds Institute of Cardiovascular and Metabolic Medicine, School of Medicine, University of Leeds, Leeds, UK View author publications, Leeds Institute of Cardiovascular and Metabolic Medicine, School of Medicine, University of Leeds, Leeds, UKView author publications, SSSIHL-Agilent Center for Excellence in Multiomics and Cell Sciences, Dept. of Chemistry, Sri Sathya Sai Institute of Higher Learning, Prasanthi Nilayam, Anantapur, Andhra Pradesh, 515 134, India, Department of Ophthalmology, Sri Sathya Sai Institute of Higher Medical Sciences, Prasanthi Gram, Anantapur, Andhra Pradesh, 515 134, India, Application Division, Agilent Technologies Ltd., Bengaluru, India		
26.	Adenosine deaminase modulates metabolic remodeling and orchestrates joint destruction in rheumatoid arthritis	1.Disease Biology Lab, Department of Biosciences, Sri Sathya Sai Institute of Higher Learning, Puttaparthi 515134, India. 2 Department of Orthopedics, Sri Sathya Sai Institute of Higher Medical Sciences, PG, Puttaparthi 515134, India. 3 Sri Sathya Sai General Hospital, Puttaparthi 515134, India. 4 Molecular Reproduction and Developmental Genetics, Indian Institute of Science, Bengaluru 560012, India. 5 Department of Chemistry, Sri Sathya Sai Institute of Higher Learning, Prasanthi Nilayam, India. 6 Department of Biochemistry, Sri	Kannan V.	Two years

Sl. No.	Title of the collaborative activity	Name of the collaborating agency	Name of the participant	Duration
		Sathya Sai Institute of Higher Medical Sciences, PG, Puttaparthi 515134, India. 7 Agilent Technologies India Pvt Ltd, Bengaluru 560048, India. 8 Present address: Department of Botany/Biotechnology, CMS College, Kottayam 686001, India. 9 Present address: Phenomenex India, Hyderabad, Telangana 500084, India		
27.	CASSPER is a semantic segmentation-based particle picking algorithm for single-particle cryo-electron microscopy	Artificial Intelligence Research and Intelligent Systems (airis4D), Thelliyoor, Kerala, India. Laboratory of Membrane Protein Biology, National Centre for Cell Science, S. P. Pune University Campus, Pune, India. Inter-University Centre for Astronomy and Astrophysics (IUCAA), S. P. Pune University Campus, Pune, India. 5 Laboratory of Structural Biology, National Centre for Cell Science, S. P. Pune University Campus, Pune, India.	George B.	Two years
28.	Tissue Engineering Scaffold Material with Enhanced Cell Adhesion and Angiogenesis from Soy Protein Isolate Loaded with Bio Modulated Micro-TiO ₂ Prepared via Prolonged Sonication for Wound Healing Applications	Postgraduate and Research Department of Chemistry, Bishop Moore College, University of Kerala, Mavelikara 690101 Kerala, India, Department of Chemistry, TKM College of Engineering, Kollam 691005 Kerala, India, Pushpagiri Research Centre, Pushpagiri Institute of Medical Sciences, Tiruvalla, Kerala 689101, India, School of Physics and Astronomy, University of Leeds, LS2 9JT London, United Kingdom, University of Madeira, 9000-390 Funchal, Portugal, School of Energy Materials,	Laly A. Pothen	Two years

Sl. No.	Title of the collaborative activity	Name of the collaborating agency	Name of the participant	Duration
		Mahatma Gandhi University, Kottayam, Kerala		
29.	Improved designing and development of endophytic bioformulations for plant diseases	Department of Botany, Government College Kottayam, Kottayam, India, Department of Botany, Government Victoria College, Palakkad, India, Department of Botany, University College, Thiruvananthapuram, Thiruvananthapuram, India	Cherian E.	Two years
30.	<i>Bruguiera</i> sp. — rhynchopetala (Rhizophoraceae) newly reported in India, far west of south-east Asian, east Asian and western Pacific regions	Department of Botany, Government College Kottayam, Kerala – 686 013, India, James Cook University, TropWATER Centre, Townsville, Queensland – 4811, Australia,	Cherian E.	Two years
31.	Electromagnetic Attenuation Performance of Sustainable e-Textile Derived from Polypyrrole Impregnated Jute Fabrics with Predominant Microwave Absorption	International and Inter University Centre for Nanoscience and Nanotechnology, Mahatma Gandhi University, Kottayam, India Engineering Department, Lancaster University, Lancaster, UK, International and Inter University Centre for Nanoscience and Nanotechnology, Mahatma Gandhi University, Kottayam, India, International and Inter University Centre for Nanoscience and Nanotechnology, Mahatma Gandhi University, Kottayam, India School of Energy Materials, Mahatma Gandhi University Kottayam, Kottayam, India	Thomas P.C.	Two years
32.	Intelligent pH-sensitive films from whole arrowroot powder and soy protein isolate incorporating red cabbage anthocyanin: monitoring freshness of shrimps and	Postgraduate and Research Department of Chemistry, Bishop Moore College, Mavelikara, Alappuzha, University of Kerala, Kerala 690110, India, Department of Chemistry, TKM	Laly A. Pothan	Two years

Sl. No.	Title of the collaborative activity	Name of the collaborating agency	Name of the participant	Duration
	ammonia in fish farming ponds	College of Engineering, Karicode, Kollam, Kerala 691005, India, School of Energy Materials, Mahatma Gandhi University, Kottayam, Kerala 686560, India		
33.	pH indicator films fabricated from soy protein isolate modified with chitin nanowhisker and Clitoriaternatea flower extract	Postgraduate and Research Department of Chemistry, Bishop Moore College, Mavelikara, 690101, Kerala, India, Department of Chemistry, TKM College of Engineering, Karicode, Kollam, Kerala, 691005, India, University of Saskatchewan, Saskatoon, SK, Canada, International and Interuniversity Centre for Nanoscience and Nanotechnology, Mahatma Gandhi University Kottayam, India	Laly A. Pothen	Two years
34.	A Two Server Queueing Inventory Model with Two Types of Customers and a Dedicated Server	Department of Mathematics, B.K College Amalagiri, Kottayam, India	Varghese C. Joshua	Two years
35.	Queueing-inventory with one essential and m optional items with environment	Department of Mathematics, St. Aloysius College, Elthuruth, Thrissur 680611, India; Department of Mathematics, Sree Narayana College, Chempazhanthy, Thiruvananthapuram 695587, India, V.A. Trapeznikov Institute of Control Sciences, Russian Academy of Sciences, 65 Profsoyuznaya Street, 117997 Moscow, Russia; Applied Probability and Informatics Department, Peoples' Friendship University of Russia (RUDN University), 6 Miklukho-Maklaya Street, 117198 Moscow, Russia	Krishnamoorthy A.	Two years

Sl. No.	Title of the collaborative activity	Name of the collaborating agency	Name of the participant	Duration
36.	A Multi-Type Queueing Inventory System - A Model for Selection and Allocation of Spectra	Department of Mathematics, St. Stephens College, Kollam District, Pathanapuram 89695, Kerala, India, V.A. Trapeznikov Institute of Control Sciences of Russian Academy of Sciences, 65 Profsoyuznaya Street, 117997 Moscow, Russia, Applied Probability and Informatics Department, Peoples' Friendship University of Russia (RUDN University), Miklukho-Maklaya Street, 117198 Moscow, Russia	Varghese C. Joshua	Two years
37.	Elevated ATP, cytokines and potential microglial inflammation distinguish exfoliation glaucoma from exfoliation syndrome	Disease Biology Lab, Dept. of Biosciences, Sri Sathya Sai Institute of Higher Learning, Prasanthi Nilayam, Anantapur, Andhra Pradesh 515 134, India., Disease Biology Lab, Dept. of Biosciences, Sri Sathya Sai Institute of Higher Learning, Prasanthi Nilayam, Anantapur, Andhra Pradesh 515 134, India; Animal Physiology and Biochemistry Laboratory, ICMR-National Animal Resource Facility for Biomedical Research, Genome Valley, Hyderabad, Telangana 500101, India., Department of Ophthalmology, Sri Sathya Sai Institute of Higher Medical Sciences, Prasanthi gram, Andhra Pradesh, 515 134, India., Leeds Institute of Cardiovascular and Metabolic Medicine, School of medicine, University of Leeds, Leeds, UK., National Institute of Nutrition, Cell & Molecular Biology, Hyderabad 500 007, India. ,	Kannan V.	Two years

Sl. No.	Title of the collaborative activity	Name of the collaborating agency	Name of the participant	Duration
		Department of Ophthalmology, Sri Sathya Sai Institute of Higher Medical Sciences, Prasanthi gram, Andhra Pradesh, 515 134, India. Electronic address: anuj.s@sssihms.org.in., Disease Biology Lab, Dept. of Biosciences, Sri Sathya Sai Institute of Higher Learning, Prasanthi Nilayam, Anantapur, Andhra Pradesh 515 134, India. Electronic address:		
38.	On a queueing-inventory system with common life time and Markovian lead time process	Department of Mathematics, Central University of Kerala, Tejaswini Hills, Periyar, Kasaragod, 671320, India	Krishnamoorthy A.	Two years
39.	Rapid Computational Approach Towards Designing Singlet-Fission Chromophores by Tuning the Diradical Character of Heteroatom-Doped Polycyclic Aromatic Hydrocarbons Using the Atom-Specific Fukui Function	Department of Chemistry, Baselius College Kottayam (Mahatma Gandhi University), Kottayam 686001, Kerala, India,	Mathew C.M.	Two years
40.	A detailed theoretical investigation to unravel the molecular mechanism of the ligand-free copper-catalyzed Suzuki cross-coupling reaction	School of Chemical Sciences, Mahatma Gandhi University, Priyadarsini Hills P.O, Kottayam, Kerala, India, E-mail: anil@mgu.ac.in , Institute for Integrated Programmes and Research in Basic Sciences, Mahatma Gandhi University, Priyadarsini Hills P.O, Kottayam, Kerala, India 686560	Thomas V.	Two years
41.	Dust Acoustic Dromions in a Magnetized, Five-Component Cometary Plasma	International School of Photonics, Cochin University of Science and Technology, Kochi, Kerala, India, School of Pure and Applied Physics, Mahatma Gandhi University, Kottayam, Kerala, India	Neethu T.W.	Two years

Sl. No.	Title of the collaborative activity	Name of the collaborating agency	Name of the participant	Duration
42.	Dual channel plasmonic hybrid system as potential multi-analyte and multi-parameter sensor	Department of Physics, Assumption College, Changanacherry, Kottayam, ,Department of Physics, Christ College, Irinjalakuda 680125, Kerala, India	Vibin Ipe Thoms	Two years
43.	A review of recent advances in starch-based materials: Bionanocomposites, pH sensitive films, aerogels and carbon dots	Department of Chemistry, Bishop Moore College, Mavelikara, Kerala, India, IIUCNN, Mahatma Gandhi University, Kerala, India,	Laly A. Pothen	Two years
44.	First report of the termite <i>Glyptotermesceylonicus</i> (Blattodea: Isoptera: Kalotermitidae) from India: an example of discontinuous distribution	Department of Zoology, Bharata Mata College, Thrikkakara, Kochi Kerala 682021, India.	Aravind N.P.	Two years
45.	Electronic structure and luminescence characteristics of rare earth free self-activated Ca ₂ Sb ₂ O ₇ blue emitting phosphor	School of Pure & Applied Physics, Mahatma Gandhi University, Kottayam, Kerala, 686560, India, Assumption College Autonomous, Changanacherry, Kottayam, Kerala, 686103, India,	Vibin Ipe Thomas	Two years
46.	Gamma-ray protection capacity evaluation and satellite data based mapping for the limestone, charnockite, and gneiss rocks in the Sirugudi taluk of the Dindigul district, India	Centre for Applied Geology, The Gandhigram Rural Institute- Deemed to be University, Gandhigram, Dindigul, 624302, India, Department of Physics, Farook College (Autonomous), Kozhikode, 673632, India, Ural Federal University, St. Mira, 19, 620002, Yekaterinburg, Russia, Nuclear Materials Authority, P.O Box. 530, El-Maadi, Cairo, Egypt, Department of Physics, CMS College (Autonomous), Kottayam, 686001, Kerala, India, Nanotechnology and Advanced Materials Research Centre, CMS	Arun Kumar K.V.	Two years

Sl. No.	Title of the collaborative activity	Name of the collaborating agency	Name of the participant	Duration
		College (Autonomous), Kottayam, 686001, Kerala, India, Department of Physics, Faculty of Science, Isra University, Amman, Jordan, Department of Nuclear Medicine Research, Institute for Research and Medical Consultations (IRMC), Imam Abdulrahman Bin Faisal University (IAU), P.O. Box 1982, Dammam, 31441, Saudi Arabia, Department of Radiological Sciences, College of Applied Medical Sciences, King Khalid University, Abha, 61421, Saudi Arabia, BioImaging Unit, Space Research Centre, Department of Physics and Astronomy, University of Leicester, Leicester, LE1 7RH, United Kingdom, Physics Department, Faculty of Science, King Khalid University, Postcode: 9004, Zip code: 61413, Abha, Saudi Arabia, Physics Department, Faculty of Science, Al Azhar University, Assiut Branch, Assiut, Egypt, Center for Applied Physics and Radiation Technologies, School of Engineering and Technology, Sunway University, 47500, Bandar Sunway, Selangor, Malaysia		
47.	Flexible Nano-TiO ₂ Sheets Exhibiting Excellent Photocatalytic and Photovoltaic Properties by Controlled Silane Functionalization”€Exploring the New Prospects of	Advanced Molecular Materials Research Centre, Mahatma Gandhi University, Kottayam 686560, Kerala, India, Department of Mechanical Engineering, Ramaiah Institute of Technology, Bangalore 560054, India, School	Sunish K. Sugunan	Two years

Sl. No.	Title of the collaborative activity	Name of the collaborating agency	Name of the participant	Duration
	Wastewater Treatment and Flexible DSSCs	of Chemistry, Monash University, Clayton, Victoria 3800, Australia, School of Chemical Sciences, Mahatma Gandhi University, Priyadarshini Hills, Kottayam 686560, Kerala, India		
48.	Unravelling the mechanism of cobalt (II) catalyzed O-arylation reaction between aryl halides and phenols: A DFT study	School of Chemical Sciences, Mahatma Gandhi University, Priyadarsini Hills P.O, Kottayam, Kerala, 686560, India, Institute for Integrated Programmes and Research in Basic Sciences, Mahatma Gandhi University, Priyadarsini Hills P.O, Kottayam, Kerala, 686560, India	Vibin Ipe Thomas	Two years
49.	On a queueing inventory problem with necessary and optional inventories	Department of Mathematics, Sree Narayana College, Chempazhanthy, Thiruvananthapuram, Kerala, 695587, India	Krishnamoorthy A.	Two years
50.	A Quantum Chemical Investigation into the Molecular Mechanism of the Atmospheric Reactions of Chemi-Ions with Nitrogen and Nitrogen Oxides	Institute for Integrated Programmes and Research in Basic Sciences, Mahatma Gandhi University, Priyadarsini Hills P.O., Kottayam 686560, Kerala, India.	Vibin Ipe Thomas	Two years
51.	AgNP anchored carbon dots and chitin nanowhisker embedded soy protein isolate films with freshness preservation for active packaging	Postgraduate and Research Department of Chemistry, Bishop Moore College, University of Kerala, Mavelikara, Kerala 690101, India, Department of Chemistry, TKM College of Engineering, Karicode, Kollam, Kerala 691005, India, Postgraduate and Research Department of Chemistry & Polymer Chemistry, Kumbalathu Sankupillai Memorial Devaswom Board College (Affiliated to University of	Laly A. Pothan	Two years

Sl. No.	Title of the collaborative activity	Name of the collaborating agency	Name of the participant	Duration
		Kerala), Kollam, Kerala 690521, India, Department of Chemistry, Government College, Kottayam, Kerala 686013, India, School of Energy Materials, Mahatma Gandhi University Kottayam, Kerala 686560, India		
52.	MgONP/Chitin nanowhiskered hybrid filler bound soy protein thin films for bioactive packaging applications	Postgraduate and Research Department of Chemistry, Bishop Moore College (Affiliated to University of Kerala), Mavelikara, Alappuzha, Kerala, India, Department of Chemistry, TKM College of Engineering, Karicode, Kollam Kerala, 691005, India, School of Energy Materials, Mahatma Gandhi University, P.D.Hills, Kottayam Kerala, 686560, India	Laly A. Pothen	Two years
53.	Multi-Server Queuing Production Inventory System with Emergency Replenishment	Department of Mathematics, S. N. College, Chempazhanchy 695587, Kerala, India, Institute of Control Systems, National Academy of Science, AZ 1141 Baku, Azerbaijan, Department of Informatics and Networks, Faculty of Informatics, University of Debrecen, 4032 Debrecen, Hungary	Krishnamoorthy A.	Two years
54.	Matrix shaped plasmonic hybrid nanostructure with direction-dependent functionality for multianalyte detection and biosensing	Department of Physics, Assumption College, Changanacherry, Kottayam 686101, Kerala, India; Department of Physics, Christ College, Irinjalakuda 680125, Kerala, India	Vibin Ipe Thomas	Two years
55.	Self-Assemblies of DNA - Amphiphiles Nanostructures for New Design Strategies of Varied Morphologies	Department of Chemistry, Sacred Heart College (Autonomous) Thevara, Kochi, Kerala, India, 682013	George J.	Two years
56.	Design and modelling of	Department of Physics,	Vibin Ipe	Two

Sl. No.	Title of the collaborative activity	Name of the collaborating agency	Name of the participant	Duration
	nano-channel based plasmonic sensor for refractive index and pressure sensing in mid IR range	Assumption College, Changanacherry, Kottayam 686101, Kerala, India	Thomas	years
57.	Effect of Substrate on the Performance of Flexible Energy Storage Devices based on Surface Modified C60- β Ni(OH) ₂	Advanced Molecular Materials Research Centre, Mahatma Gandhi University, Kottayam 686 560, Kerala, India; School of Chemical Sciences, Mahatma Gandhi University, Priyadarshini Hills, Kottayam 686 560 Kerala, India	Sunish K. Sugunan	Two years
58.	Dye-Sensitized Solar Cells Based on a New Type of Non-Volatile Co(II)/Co(III) Electrolyte Delivering Higher Power Conversion Efficiency for Indoor Applications	Advanced Molecular Materials Research Centre, Mahatma Gandhi University, Kottayam-686 560, Kerala, India; School of Chemical Sciences; Mahatma Gandhi University, Priyadarshini Hills, Kottayam	Sunish K. Sugunan	Two years
59.	A Research Study to Further Gender Equality on Higher Education in India	Savitribai Phule Pune University, Ganeshkhind Rd, Ganeshkhind, Pune	Tilda Mary Daniel	2 years

3.8. List of faculty members awarded with Ph.D.

- Dr.Vijo Thomas Kurien (Zoology)
- Dr. Jeena Shaji (Communicative English)
- Dr. Neethu Theresa Willington (Physics)

3.9. Conferences/seminars for Research Scholars

Sl. No.	Department	No of participants	Name of Programme
1	Botany	101	Webinar on Climate and carbon market- Research Methodology
2	Commerce SF	91	Webinar on opportunities and challenges of nascent entrepreneurs-Entrepreneurship
3	Commerce SF	91	One-day Workshop on Stock Market- Research Methodology
4	English	162	10th Frances Collins Lecture 2020, "The Woman's Question in Mary Shelley's Narratives", - Research Methodology

Sl. No.	Department	No of participants	Name of Programme
5	Home Science	74	Webinar on Millets the Nutri Cereals-Entrepreneurship
6	Botany	55	Webinar on Carbon neutral development-Research Methodology
7	Chemistry	67	Invited Talk on “Nobel Prize Winning Innovations in Homogeneous Catalysis in the last two decades”- Research Methodology
8	Zoology	70	Webinar on tissue regeneration and stem cells- Research methodology
9	Biotechnology	96	Webinar on IPR Awareness Program by NIPM on 10th March 2022-IPR
10	Botany	46	Tissue Culture & IPR workshop-IPR
11	Economics	50	Workshop on IPR Basics and Indian Patenting System-IPR
12	Mathematics	140	Workshop on Intellectual Property Rights(online)- IPR
13	Mathematics	145	13th International Workshop on Rental Queues and related topics (WRQ 2021) - Research Methodology
14	Computer Science	60	Webinar on Software Modelling using DFD and UCD- Skill development
15	Sociology	20	SPSS Training- Skill development
16	English	35	Let’s learn sign language together- Skill Development and Entrepreneurship
17	English	80	Disabled Bodies: Engaging, Embracing, and Empowering- Skill development and Entrepreneurship
18	English	40	Leap into the Second Lap,” a one-day capability enhancement programme- Skill development and Entrepreneurship

3.10. Grants

The college receives funding from **SERB, DBT, RUSA, SAP, UGC, KSCSTE, NIF, PARAMARSH** and **CPE** to enhance the overall infrastructure facilities of research.

YIP

CMS College Kottayam (Autonomous) has a vibrant and sustainable eco-system for the creation, innovations, and transfer of knowledge. The dedicated and integrated functioning of centres of research, entrepreneurship, community orientation, and incubation in the college provides a conducive environment for the sustenance of this ecosystem. Institution’s Innovation Council (IIC), Innovation and Entrepreneurship Development Centre (IEDC), Entrepreneurship Development Club (ED club), Young Innovators Programme (YIP), and Incubation centre are the platforms that enable to create a vibrant local ecosystem for innovation, entrepreneurship and start-

ups through various activities such as workshops, seminars, competitions, fairs, interactions with entrepreneurs and professionals, training, and feasibility analysis they foster a culture of innovation and entrepreneurship. Young Innovators Programme (YIP), and Incubation centre are the platforms that enable to create a vibrant local ecosystem for innovation, entrepreneurship and start-ups through various activities such as workshops, seminars, competitions, fairs, interactions with entrepreneurs and professionals, training, and feasibility analysis they foster a culture of innovation and entrepreneurship. A Research Innovation Award is also instituted to promote the innovation ecosystem.

4. EXTRACURRICULAR ACTIVITIES

To offer opportunities for students to acquire the values of teamwork, individual and group responsibility, physical strength and endurance, competition, diversity, and a sense of culture and community, CMS College provide channels for extra academic activities like NSS/ NCC, sports, games and other cultural activities.

4.1. NSS Organised Activities

Sl. No.	Name of the Activity
1	Anganwadi Cleaning at Kachovelikunnu
2	Anganwadi Cleaning at Thuruthelpalam
3	Awareness Session for the Parents of the Students
4	Awareness Video Regarding the Importance and Necessity of Voting in Democracy
5	Beautification, Painting Walls, Drawing Cartoons on Walls, Making Butterfly Garden
6	Benefit Distribution Programme of Kera Gramam Project
7	Bicycle- Motor Bike Rally
8	Blanket of Warmth Project(Community Outreach Programme)
9	Discussion on the Importance of Family Relationships, Participation in Household Chores & Equality in Families
10	District Level Neighbourhood Youth Parliament 2021-2022
11	Food Kit Distribution at Adopted Village (Community Outreach Programme)
12	Digitalization and QR Coding of the Trees at Nehru Park, Kottayam
13	KANAL Project- Awareness Program for Women's Safety
14	Project of Liquid Waste Management Action Plan And Data Collection
15	Mangrove Forestation Mission at Pongilakkary Village
16	Motor Vehicle Rally
17	Nirbhaya Day Celebration- Street Play at Nagapadam Bus Stand, Kottayam

Sl. No.	Name of the Activity
18	Online Gender Awareness Training Program
19	Paddy Cultivation Mission
20	Plant a Life Challenge
21	School Beautification and Cleaning:
22	State Level Three Day Webinar Series - Conservation of Mangrove Ecosystems
23	Three Day Self- Defence Workshop for Women
24	Webinar- " Anaemia Awareness"
25	Work at Abhayam Charitable Trust

4.2 NCC Organised Activities

Sl. No.	Name of the Activity
1	National level craft competition 2021
2	Ek Bharath Sreshtha Bharath Camp (EBSB)
3	COVID 19 Training for cadets
4	NCC CAMPS& SELECTION
5	National webinar on Defence career
6	Online Declamation competition
7	National level E-Quiz competition
8	Online quiz competition
9	Beautification of schools
10	NCC day 2021
11	3 days Self defence workshop for women
12	NCC CAMPS AND SELECTION
13	NCC CAMPS AND CAMP SELECTION
14	Motor Vehical Rally 2022
15	AGARWA NCC fest 2022
16	Republic Day Celebration
17	Punithsagar Abhiyan
18	International Yoga Day-2021
19	Independence Day Celebration
20	ECOTHON 2022
21	Environment Day Celebration
22	Gandhi Jayanthi Celebration
23	War Memorial Cleaning

4.3. Achievements in Extension Activities

NSS

Sl. No	Name of the Award
1	NSS- Best NSS Unit of Mahatma Gandhi University- Mahatma Gandhi University – 2021-22
2	NSS -Best NSS Volunteer of Mahatma Gandhi University- Mahatma Gandhi University- 2021-22
3	NSS- Outstanding NSS Programme Officer of Mahatma Gandhi University- Mahatma Gandhi University -2021-22
4	NSS- Outstanding Volunteer of Mahatma Gandhi University- Mahatma Gandhi University- 2021-22

NCC

Sl. No.	Name of the Award
1	Naveena R Binu won the best cadet prize in the Inter Battalion NCC fest.

4.4. Sports and Cultural Events

Number of awards/medals for outstanding performance in sports/cultural activities at inter-university / state / national/international events.

Sl No	Name of the award/ medal	Team / Individual	Level of Award	Name of the event	Name of the student
1.	Research Presentation	Individual	International	Global Congress on Chemistry And Catalysis, Dubai	Rehin Sulay
2.	Third	Individual	State	Essay writing Competition by Income Tax Department	Ruth Mareena Sebastian
3.	First	Individual	State	Essay writing Competition by Income Tax Department	Liya Susan Sam
4.	Second	Individual	State	Essay writing Competition by Income Tax Department	Rithu K Alex
5.	First	Individual	State	State Sikshya Award	Parvathy Krishna
6.	First	Individual	State	Quiz Competition	Midhun V Jai
7.	Second	Individual	State	Quiz Competition	Midhun V Jai
8.	Second	Individual	State	Quiz Competition	Midhun V Jai

Sl No	Name of the award/ medal	Team / Individual	Level of Award	Name of the event	Name of the student
9.	Second	Individual	State	Quiz Competition	Parvathy S
10.	Best manager	Individual	State	GIMS -All Kerala Best manager contest	Hannah Tom
11.	1 st runner up	Individual	State	GIMS - All Kerala Best manager contest	Sandra Teresa Saji
12.	First	Individual	State	Wrestling Championship 2020-21-Womens Wrestling 62 kg	Femiya Rose A F
13.	Second	Individual	State	Wrestling Championship 2020-21-Womens Wrestling 65 kg	Devisree M R
14.	Second	Individual	State	Elocution Competition - GIAL	Ansu Chacko
15.	First	individual	State	Essay Writing Competition - St.StephensUzhavoor	Ashita Regit
16.	First	individual	State	Intercollegiate essay writing competition	Aleena Bose
17.	Qualified	Individual	National	National Online Quiz Competition	Govind T S

5. PLACEMENT AND PROGRESSION

Through its organised and efficient aptitude testing, the institution's placement cell plays a crucial part in linking students with prospective employers and streamlining the job placement process. In order to promote an Industry-Institution Interaction, the cell is in charge of both on- and off-campus placement activities, bringing together students and the business community. The placement cell runs a number of training programmes for placement and employability skills throughout the semesters to get students ready for their future careers.

5.1. Placement of Outgoing Students

Sl No.	Name of Student Placed	Program Graduated From	Name of the Employer	Pay Package At Appointment
1	Abdullah	Bachelor of Computer Application (B C A)(SF)	Wipro	224000
2	Abdulmanaf P I	B.Com Model I Finance & Taxation(Aided)	Conduent Llp, Associate	120000
3	Abel Ashok	Bachelor of Computer Application (B C A)(SF)	Cognizant	252000

Sl No.	Name of Student Placed	Program Graduated From	Name of the Employer	Pay Package At Appointment
4	Abhiyah Elizabeth Alexander	B.A History Model I	Sutherland Non Voice	216000
5	Afsana Fathima	M.A. Sociology	Navalt Solar& Electric Boats Pvt Ltd. (Internship) 10000 Per Month	120000
6	Aiswarya Ashokan	B.Com Model I Finance & Taxation(SF)(A)	Accenture	3,40,000
7	Aiswarya Mohan	Bachelor of Computer Application (B C A)(SF)	Federal Bank	500000
8	Aiswarya Mohan	B.Com Model I Finance & Taxation(SF)(A)	South Indian Bank	437648
9	Aiswarya Roy	Bachelor of Computer Application (B C A)(SF)	Cognizant	2,52,000
10	Ajay S Krishna	Bachelor of Computer Application (B C A)(SF)	Cognizant	2,52,000
11	Akhil S	B.Voc Information Technology	Deloitte	325008
12	Albin Jo Alex	B.Voc Information Technology	Cognizant	252000
13	Aleena Ann John	B.Sc Mathematics Model I	South Indian Bank	437648
14	Aleena Maria Jose	B.Sc Mathematics Model I	Cognizant	252000
15	Aliya Salim	M.Com.	Sutherland	216000
16	Alka Baiju	B.Com Model I Finance & Taxation(SF)(A)	Wipro	240000
17	Amala C S	M.A. Economics	Icici Bank	240000
18	Amala Joseph	M.Com	Federal Bank	9.57lk- 13.32lk Pa
19	Anais Habeeb	B.Com Model I Finance & Taxation(SF)(A)	Sutherland Global	250000
20	Anandhu Kochumon	B.Sc Botany Model I	MRF	323498
21	Anjanalakshmi	M.Com	South Indian Bank	437648
22	Ann Mariya Benny	MSc.Chemistry	Vedhik IAS Academy	180000
23	Anne Tomy	B.Com Model I Finance & Taxation(SF)(B)	HCL	240000
24	Annet Ann Varghese	B.Com Model I Finance & Taxation(SF)(A)	Sutherland Global	216000

Sl No.	Name of Student Placed	Program Graduated From	Name of the Employer	Pay Package At Appointment
25	Anwar Sanu M K	M.A. History(SF)	OOM Srinikethana Trust	156000
26	Aparna Shaji	MSc.Chemistry	Sri Krishna Pharmaceuticals	204000
27	Arjun Ghosh	M.A. History(SF)	Centre For Economic and Social Studies	180000
28	Arunima Nair	B.Com Model I Finance & Taxation(Aided)	Sutherland Global Services,	216000
29	Arya Manu	M.Sc. Mathematics	Sutherland	216000
30	Ashina Anna Sabu	B.A Malayalam Language and Literature Model Ii Copy Editing	Malayala Manorama	222429
31	Avinash Parameswaran	M.Com	Mantle Solutions, Infopark.	144000
32	Ayush K S	B.Voc Information Technology	Sutherland	240000
33	Basil N P	M.A. Sociology	Office of the Accountant General	660000
34	Benet Binu	B.Voc Travel, Tourism and Logistics Management	Riya Travels	168000
35	Bhadra G	B.Sc Physics Model I	GdsAbpm	270000
36	Bhadra Gopan	Bachelor of Computer Application (B C A)(SF)	Cognizant	2,52,000
37	Bhanu Krishnan	B.Com Model I Finance & Taxation(SF)(B)	Bz Analytics	2,40,000
38	Bibinamol Jacob	B.Voc Information Technology	Sutherland	216000
39	Chanchal Liz George	M.Sc. Physics	Accenture	333,500
40	ChincyLoody	B.Com Model I Finance & Taxation(Aided)	Malayala Manorama	180000
41	Christeena Cicily Thomas	Bachelor of Computer Application (B C A)(SF)	Accenture	3,33,500
42	Diyamol Augustine	B.A English Language and Literature Model I	Sutherland	250000
43	Ebin John Philip	B.Sc Botany and Biotechnology Model Iii Double Main(SF)	MRF, Kottayam Plant	323498
44	Elsa Tiny Rajan	B.Com Model I Finance & Taxation(SF)(B)	South Indian Bank	519000
45	Emil George Jacob	M.Com.	Sutherland	216000
46	Gayathri A G	B.Sc Mathematics Model I	Sutherland	216000

Sl No.	Name of Student Placed	Program Graduated From	Name of the Employer	Pay Package At Appointment
47	Geethanjanu Ann Shibu	M.Sc. Mathematics	Esaf	300000
48	Gopika Anil	B.A English Literature, Communication and Journalism Model Iii (Triple Main) (SF)	Global Study Link, Cochin	1800000
49	Gopika K	B.A English Literature, Communication and Journalism Model Iii (Triple Main)(SF)	Riota Group of Companies, Chennai	265536
50	Goutham Vishnu A G	B.Com Model I Finance & Taxation(SF)(B)	Sutherland Global	295000
51	Gowtham R	Bachelor of Computer Application (B C A)(SF)	Palnar	2,50,000
52	Greeshmanjali L S	M.Com	Sutherland	216000
53	Harikrishnan A S	B.Voc Information Technology	Sutherland	216000
54	Harish M Nair	B.Voc Information Technology	Sutherland	216000
55	Haritha K S	B.Com Model I Finance & Taxation(Aided)	Sutherland - Non Voice	216,000
56	Jacob Alwin Joy	B.Voc Information Technology	Cognizant	252000
57	Jeffi Joby	B.Sc Mathematics Model I	Sutherland	250000
58	Jency Ananth	B.Com Model I Finance & Taxation(SF)(B)	Sutherland Global	250000
59	Jesselene Grace Babu	B.Com Model I Finance & Taxation(SF)(A)	Sutherland Global	250000
60	Jibi Joseph	Bachelor of Computer Application (B C A)(SF)	Wipro	224000
61	Jinu Alex	B.Voc Travel, Tourism and Logistics Management	Travel Saga	120000
62	Joel Lazar	B.A English Language and Literature Model I	Ymgrad	350000
63	Joms Augustine	B.Com Model I Finance & Taxation(SF)(A)	South Indian Bank	519000
64	Josna Mary Jose	M.Sc. Mathematics	South Indian Bank	519000
65	Jyothi R B	B.A History Model I	Sutherland	250000
66	Jyothis Jacob	B.Com Model I Finance & Taxation(Aided)	Sutherland	250000
67	Keerthi Bijili	M.A. Malayalam	Thiruvithamkoor Devaswam Board	264000
68	Krishna Sampreeth	B.Voc Information Technology	Resilience	204000

Sl No.	Name of Student Placed	Program Graduated From	Name of the Employer	Pay Package At Appointment
69	Krupa Mary Saji	B.A English Language and Literature Model I	Sutherland Non Voice	216000
70	Lakshmi Kesav	B.Sc Physics Model I	South Indian Bank	519000
71	Lincy Jaison	M.A. Sociology	Tribal Development Office, Government of Kerala	120000
72	Linu Joseph	M.Com	Sutherland	216000
73	Mahesh Krishna	M.A. Sociology	Core Integra	246912
74	Mariah Vellappally	M.Com	KPMG	4,20,000
75	Namita Elizabeth Kuruvilla	B.A English Literature ,Communication and Journalism Model Iii (Triple Main)(SF)	Global Study Link, Cochin	1800000
76	Namitha Rajeev	B.Com Model I Finance & Taxation(SF)(B)	Sutherland Global	250000
77	Nathan Vinod	B.Com Model I Finance & Taxation(SF)(B)	Federal Bank	550000
78	Navya Ann Viju	M.Sc. Mathematics	Spi Global	283200
79	Paappu Roy	M.Com	HCL	240000
80	Parvathy M Pillai	B.Com Model I Finance & Taxation(SF)(A)	Allianz	300000
81	Poornima Rajesh	B.Com Model I Finance & Taxation(SF)(B)	Ernst And Young (Ey)	3,65,000
82	Pranav Kumar K P	B.Voc Information Technology	Sutherland	240000
83	R Jency Kutty	B.Voc Information Technology	Goan Institute International	216000
84	Rahana Shaji	M.Sc. Mathematics	Operations Executive At Infosys Ltd.	220000
85	Reshma Suresh	M.A. Economics	Chegg India	180,000
86	Rinu Mary George	M.Sc. Mathematics	Gramina Dak Sevak Kudamaloor	120000
87	Rohith S Nair	B.Voc Travel, Tourism and Logistics Management	Travel Saga	120000
88	Rose Robert	B.Com Model I Finance & Taxation(Aided)	Sutherland Global Services	250000
89	Sajin K Jolly	B.Voc Information Technology	Sutherland	240000
90	Sandra Nimmy Jacob	M.Com	Envertiz Consultancy Pvt Ltd , Graduate Trainee	264,000

Sl No.	Name of Student Placed	Program Graduated From	Name of the Employer	Pay Package At Appointment
91	Sandra Thomas	B.Voc Information Technology	Sutherland	240000
92	Sharon Ann Mary Joshie	B.Com Model I Finance & Taxation(SF)(A)	Sutherland Global	250000
93	Sharon Varghese	B.Com Model I Finance & Taxation(SF)(B)	Stiffin& Associates	240000
94	Sneha Jojo	M.A. Economics	Sutherland	250000
95	Sneha Saji Mathew	Bachelor of Computer Application (B C A)(SF)	Deloitte	325008
96	Sreelakshmi Suresh	B.A English Literature ,Communication and Journalism Model Iii (Triple Main)(SF)	Network School	120000
97	Sreelakshmy Mohan	M.Sc. Mathematics	South Indian Bank Limited	519000
98	Sreya S Karackal	B.Com Model I Finance & Taxation(SF)(B)	Sutherland Global	250000
99	Sruthi Mariam Mathai	B.Sc Zoology Model I	Medcity, Kottayam	240000
100	Steffy Ann Philip	B.A Economics Model I	Sutherland	216000
101	Stephin Jose	M.A. English	St.Mathews H.S Kannankara	427200
102	Swaati Lakshmi Prasad	B.A English Language and Literature Model I	Sutherland	250000
103	Tinju George	B.Voc Information Technology	Sutherland	216000
104	Tyson P Thomas	B.Com Model I Finance & Taxation(SF)(B)	Sutherland Global	245851
105	Unnikrishnan B S	B.Com Model I Finance & Taxation(SF)(B)	Sutherland Global	216000
106	Vandana P Biju	B.Com Model I Finance & Taxation(Aided)	Sutherland	216000
107	Vani C Nair	Bachelor of Computer Application (B C A)(SF)	Sutherland	216000
108	Varsha Vallarian	B.A English Literature ,Communication and Journalism Model Iii (Triple Main)(SF)	Bluesteak Media Pvt Ltd	240000
109	Vyshnavi M	B.Com Model I Finance & Taxation(Aided)	Polinsys	183000