

ANNUAL REPORT 2017-18

CMS College, Kottayam

(Autonomous)

Affiliated to Mahatma Gandhi University, Kottayam

Kottayam P. O., Kottayam, Kerala, India – 686001

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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 11 aided departments and 4 unaided departments offering 713 courses for 2382 students, 139 teaching faculty members and 41 administrative staff. Deeply rooted in Kottayam and dedicated to its mission, CMS College is one of the top colleges in Kerala. The 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.

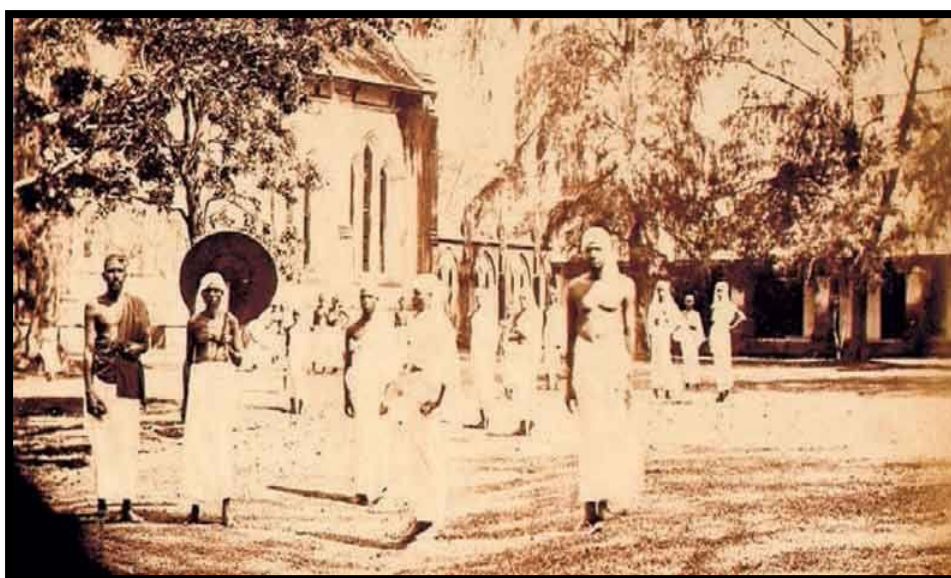
The transformation from complete emphasis on teaching and learning to equal emphasis on teaching, learning and research has been very swift and practical. The combined research output in terms of degrees awarded, papers published, and projects undertaken by the departments has been a progressive enterprise. 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. 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

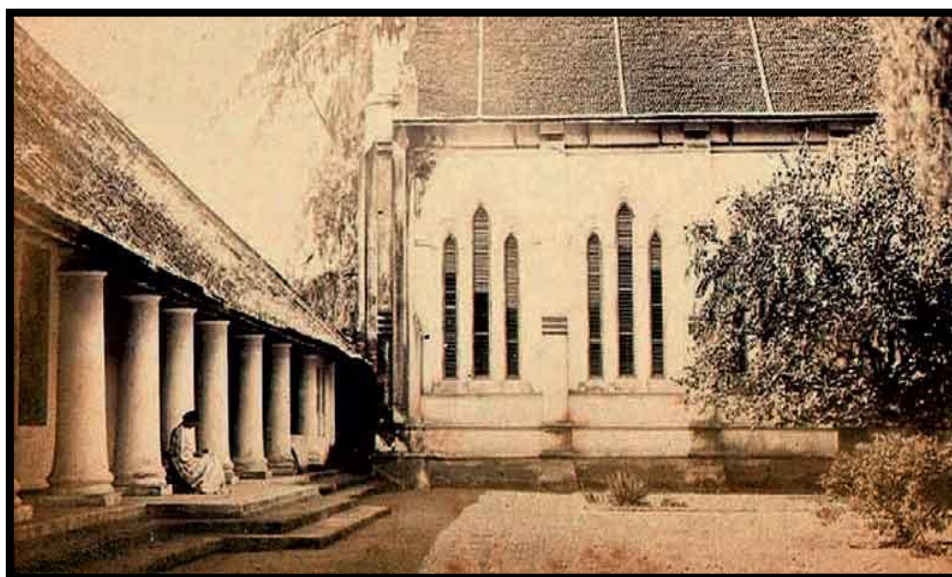
Now thanks be unto God, which always causeth us to triumph in Christ, and maketh manifest the fragrance of his knowledge by us in every place. For we are unto God a sweet aroma of Christ. 2Corinthians, 2: 14-15.



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 Bai (1810-15) 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. Selectae e profanis, Virgil's Aeneid, Cicero's Orations, Horace's Epistles, 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 Bai (1815-29), 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 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's 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.

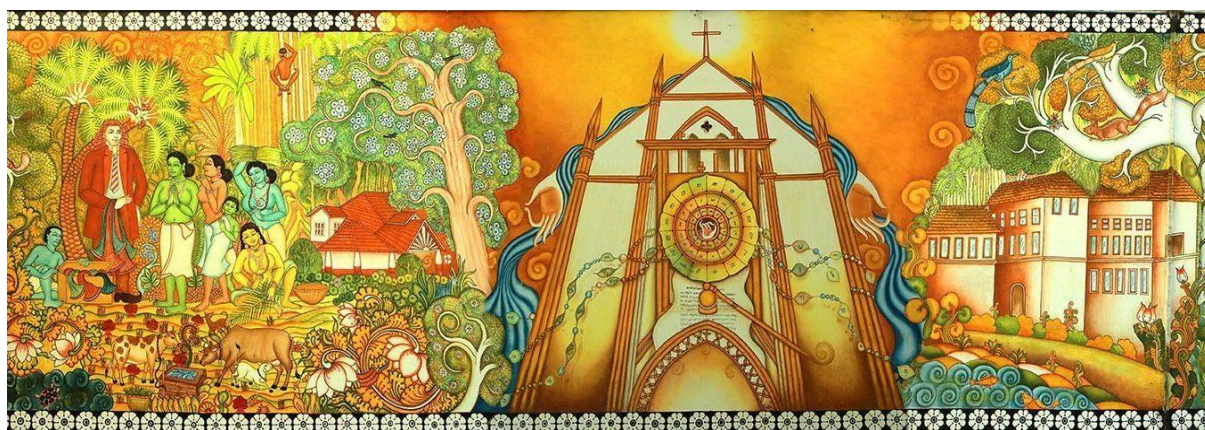
1.5 Governance, Leadership and Management

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, co-curricular 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 the value-added, vocational and technical courses in its curriculum accedes a recognitive 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 Highlights of the Year

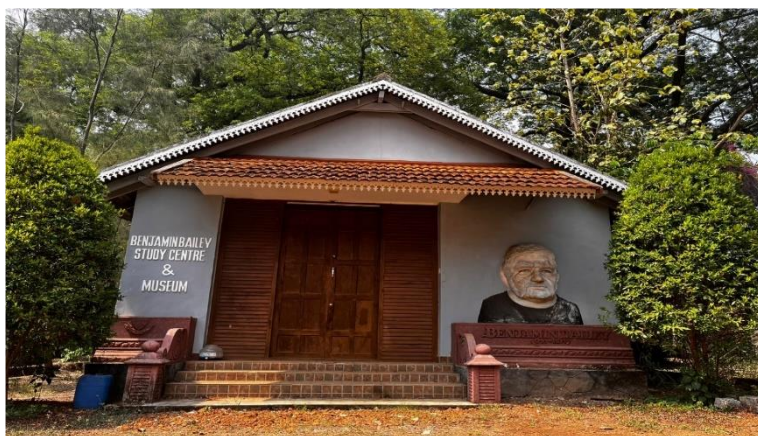
- **Mural Paintings**

The splendid display of the history, legacy and tradition of the college portrayed in the muralist art style is a pageant of an artistic extravaganza created under the direction of K.U. Krishnakumar, principal of Guruvayoor Mural Institute, Kerala and Dr. Saju Thuruthil, Head of the Department of mural painting, University of Kalady, Kerala.



- **Benjamin Bailey Museum and Study Centre**

Rev. Benjamin Bailey, the first Principal of the college was a scholar and polyglot who brought printing to the land, authored books on vernacular grammar, and developed the first dictionary in Malayalam. The museum and study centre cares for and displays the invaluable



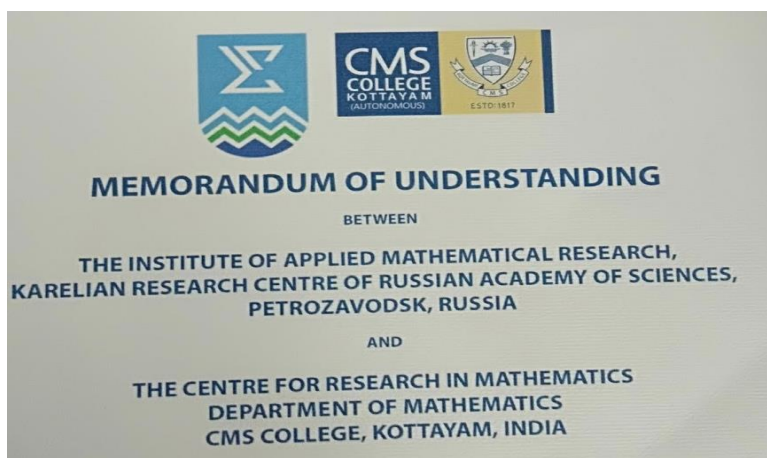
collection of articles used and operated by Rev. Benjamin Bailey. The Study Centre and museum was established with the help of a grant-in-aid by the Honourable Government of Kerala. It stands up to popularise the academic and cultural contributions of Rev.

Benjamin Bailey. The Bailey Museum is a visual document that marks the milestones of printing, tracing its evolution from the Gutenberg era and pointing to its technological progress into the digital era. It also provides a display of artifacts reflecting the cultural history of Kerala.

- **MOU with Karelian Research Centre of Russian Academy of Sciences**

The CMS College entered into an agreement to establish a co-operation programme in the field of research and education with Petrozavodsk State University, in order to promote mutual understanding between the two countries and between two

institutions through educational and academic collaboration and exchange and to contribute to the advancement and progress of learning.



• Bicentenary Celebrations

Even 200 years later, the original missionary zeal is evident at CMS College as India's first Arts and Science College, not just for the namesake but in upholding the esteem in its curricular and extra-curricular oeuvre. The well-stocked library, the astronomy observatory, the printing press and the classrooms were all designed with the intention of offering a worthy platform to learn and progress. The Bicentenary logo is a masterstroke by Shri Kanai Kunhiraman and speaks of the story of CMS College—its foundation, its history, its vision and its impact. The enthusiasm of the whole celebration was heightened by the presence of the honourable President of India, Sri Pranab Mukherjee. He inaugurated the bicentenary celebrations of the college that could rightly claim to have ushered in modernity in the education sector of Kerala.

Illustrious personalities from different fields made the occasion more remarkable. A significant number of those dignitaries always had a penchant for the flourishing of the institution's horizons to new avenues, which included the Governor, Justice P. Sathasivam and Chief Minister Shri. Oomen Chandy. With every activity contributing to the original credo of its heritage, commemorating its inception was an unprecedented affair for the institution and the state. The College's bicentennial is a time to honour the College's 200 years of achievements and to imagine what might be accomplished as its next century begins. Look for special events, lectures and more to commemorate the history of where the college began and our path towards the future. Addressing the vision of the college, Shri Pranab Mukherjee recognised the eminence of the college as a pioneer of modern education in Kerala. To recall the verbatim, "It has been the source of strong currents of knowledge and critical inquiry that have moulded the scholastic and socio-cultural landscape of Kerala and propelled the state to the forefront of social development."



1.7 Departments

CMS College has twenty-two full-fledged academic departments offering both undergraduate and post-graduate degrees. In addition, students can be admitted into PhD programmes. The following list comprises the academic disciplines undertaken by the college.

• Aided Stream

- 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 Physics
- Postgraduate and Research Department of Sociology
- Postgraduate and Research Department of English
- Postgraduate and Research Department of Zoology
- Department of Family and Community Science
- Department of Physical Education
- Department of Economics
- Department of History
- Department of Hindi
- Department of Statistics
- Department of Political Science

• Self-financing Stream

- Department of Communicative English
- Department of History (MA)
- Department of Biotechnology
- Department of Computer Science
- Department of Family and Community Science

➤ Department of Commerce

1.8 Faculty Details

CMS College has an enormous body of competent teaching faculty enrolled to the twenty-two 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 2017-2018 academic year saw the appointment of the following faculty to the respective departments.

List of New Faculty Members

| Name | Department | Designation | Year of Appointment | Nature of Appointment |
|------------------------------|-----------------------|---------------------|---------------------|-----------------------|
| Dr. Thejal Abraham | Physics | Assistant Professor | 2017 | Permanent |
| Mr. Riju Varkey Thomas | Commerce | Assistant Professor | 2017 | Permanent |
| Ms. Aswathy Ajayan | Chemistry | Assistant Professor | 2017 | Temporary |
| Mr. Solomon Paily | Commerce | Assistant Professor | 2017 | Temporary |
| Ms. Neema Sara John | Commerce | Assistant Professor | 2017 | Temporary |
| Ms. Saino Ninan | Commerce | Assistant Professor | 2017 | Temporary |
| Dr. Gigy Joseph | Communicative English | Assistant Professor | 2017 | Temporary |
| Ms. Anjali M Nair | Communicative English | Assistant Professor | 2017 | Temporary |
| Ms. Aswathy Mary Varghese | Communicative English | Assistant Professor | 2017 | Temporary |
| Mr. Cyril John | Computer Science | Assistant Professor | 2017 | Temporary |
| Ms. Merin Abraham | Computer Science | Assistant Professor | 2017 | Temporary |
| Ms. Vishnupriya | Computer Science | Assistant Professor | 2017 | Temporary |
| Ms. Rijoola Basheer | English | Assistant Professor | 2017 | Temporary |
| Ms. Smrithi S Nair | Hindi | Assistant Professor | 2017 | Temporary |
| Ms. Sanoopa K S | History | Assistant Professor | 2017 | Temporary |
| Ms. Faseela Mohammed Rasheed | Home Science | Assistant Professor | 2017 | Temporary |
| Ms. Linta Micheal | Home Science | Assistant Professor | 2017 | Temporary |
| Ms. Anjusha Bhaskar | Malayalam | Assistant Professor | 2017 | Temporary |
| Ms. Rani Jose | Malayalam | Assistant Professor | 2017 | Temporary |
| Mr. Sherin John P | Mathematics | Assistant Professor | 2017 | Temporary |
| Ms. Athira V Balagopalan | Mathematics | Assistant Professor | 2017 | Temporary |
| Ms. Aswathy A | Sociology | Assistant Professor | 2017 | Temporary |
| Ms. Amrutha V Reghu | Zoology | Assistant Professor | 2017 | Temporary |
| Mr. Sudheeshkumar V R | Mathematics | Assistant Professor | 2017 | Temporary |

1.9 Committees

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
- ❖ Equal Opportunity Cell
- ❖ Student Welfare Committee
- ❖ Anti Ragging Committee
- ❖ Student Discipline Committee
- ❖ Grievance Redressal Cell
- ❖ ICC
- ❖ Admission Committee
- ❖ UNAI
- ❖ ASAP
- ❖ Alumni Committee
- ❖ Purchase Committee
- ❖ Building Committee
- ❖ PTA Executive Committee
- ❖ Research Advisory Committee
- ❖ SSP
- ❖ WWS
- ❖ Redressal Cell for Continuous Assessment
- ❖ Library Committee
- ❖ College Union Committee
- ❖ Canteen Committee
- ❖ Hostel Committee

1.10 Grants

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

1.11 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.

| Sl. No. | Title of the collaborative activity | Name of the collaborating agency with contact details | Name of the participant | Duration | Nature of the activity |
|---------|-------------------------------------|--|---------------------------------------|----------|-------------------------|
| 1 | Internship | Indian Academy of Sciences, Post Box No. 8005, Raman Research Institute Campus, Sadashivanagar, Bengaluru 560 08 | Mebin George Varghese | 2 Days | Student project |
| 2 | Internship | Indian Academy of Sciences, Post Box No. 8005, Raman Research Institute Campus, Sadashivanagar, Bengaluru 560 08 | Haritha S. Prasad | 3 Months | Student project |
| 3 | Training Programme | School of Medical Education, Gandhinagar, Kottayam | VI th Semester Biotechnology Students | 1 day | Training Programme |
| 4 | Dietary Internship and Field Study | Believers Church Medical College Hospital, Kuttapuzha PO Thiruvalla-689103 | Nova James | 1 month | Internship And Training |
| 5 | Internship | The Travancore Cements Limited, Nattakom Kottayam-686013 | Sreelakshmi Hemachandran | 1 month | Student project |
| 6 | Dietary Internship and Field Study | Aster Mims, Govindapuram PO Calicut-673016 | Renjini Babu | 1 month | Internship And Training |
| 7 | Dietary Internship and Field Study | Aster Mims, Govindapuram PO Calicut-673016 | Lekshmi S | 1 month | Internship And Training |
| 8 | Dietary Internship and Field Study | Believers Church Medical College Hospital, Kuttapuzha PO Thiruvalla- | Susan Jacob | 1 month | Internship And Training |

| Sl. No. | Title of the collaborative activity | Name of the collaborating agency with contact details | Name of the participant | Duration | Nature of the activity |
|---------|-------------------------------------|---|-------------------------|----------|-------------------------|
| | | 689103 | | | |
| 9 | Dietary Internship and Field Study | Believers Church Medical College Hospital, Kuttapuzha PO Thiruvalla-689103 | Anjali Soman | 1 month | Internship And Training |
| 10 | Internship | Indian Academy of Sciences, Post Box No. 8005, Raman Research Institute Campus, | Kevin Philip | 3 months | Student project |

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 Programmes

| Sl. NO | PROGRAMMES |
|--------|---|
| 1 | BA Economics |
| 2 | BA English |
| 3 | BA Communicative English (Triple Main) (SF) |
| 4 | BA History |
| 5 | BA Malayalam (Model II) (Voc.) |
| 6 | B.Com Model I Finance & Taxation |
| 7 | B.Com Model I Finance & Taxation (SF) (2 Batches) |
| 8 | B.Sc Biotechnology & Botany (SF) |
| 9 | B.Sc Botany |
| 10 | B.Sc Chemistry |
| 11 | B.Sc Family & Community Science (Home Science) |
| 12 | B.Sc Mathematics |
| 13 | B.Sc Physics |
| 14 | B.Sc Zoology |
| 15 | BCA (SF) |

PG Programmes

| Sl. no. | Programme |
|---------|---|
| 1 | M.A. Sociology |
| 2 | M.A. Malayalam |
| 3 | M.A History |
| 4 | M.Sc. Botany |
| 5 | M.Sc. Biotechnology |
| 6 | M.Sc. Applied Chemistry |
| 7 | M.Sc. Analytical Chemistry |
| 8 | M.Sc. Applied Chemistry |
| 9 | M.Sc. Home Science – Food Service Management & Dietetics (SF) |
| 10 | M.Sc. Physics (Electronics) |
| 11 | M.Sc. Applied Physics |
| 12 | M.Sc. Mathematics |
| 13 | M.Sc. Zoology (Elective: Entomology) |
| 14 | M.Com. (Elective: Finance) |
| 15 | M.A. History (SF) |

Ph.D. Programmes

| Sl.NO | Name of Departments offering Ph. D. Programmes |
|-------|--|
| 1 | Department of English |
| 2 | Department of Malayalam |
| 3 | Department of Mathematics |
| 4 | Department of Physics |
| 5 | Department of Chemistry |
| 6 | Department of Zoology |
| 7 | Department of Botany |
| 8 | Department of Commerce |
| 9 | Department of Sociology |

2.2 Value Added Courses

Value Added courses are career and market oriented, skill-enhancing courses that empower the students beyond their domain of study. The certificate programmes enable them to enrich their capability and enhance their employability. With the objective of enriching the

curriculum the autonomous college may start value added programmes. Accordingly, each department may conduct at least one add on programme. Holistic development of students is the main purpose of curriculum. The college is expected to have provision for added courses and activities which may not be directly linked with one's discipline of study but contribute to sensitizing students to cross-cutting issues relevant to the current pressing concerns both nationally and internationally such as gender, environment and sustainability, human values and professional ethics; development of creative and divergent competencies. Such courses may be offered by individual departments based on capability and expertise.

List of Value-Added Courses in 2017-18

| SL.NO | COURSES |
|-------|--|
| 1 | Certificate programme in medicinal and ornamental plants |
| 2 | Professional taxation |
| 3 | Certificate Course in Fashion Designing |
| 4 | Advertising and Public Relations |
| 5 | Bakery and Confectionary |
| 6 | Functional Mathematics |
| 7 | Introduction to archives and Museum |
| 8 | Theatre Studies |
| 9 | Water Quality monitoring |
| 10 | Photography |
| 11 | Data Analysis using Excel |
| 12 | ICT Fundamentals |

2.3 Admission

Number of students admitted in the year 2017-2018

| Programme name | Program me Code | Number of seats sanctioned | Number of Students admitted |
|--|-----------------|----------------------------|-----------------------------|
| B. A. English | BAEN | 50 | 48 |
| B. A. Malayalam (Model II) (Voc.) | BAML | 24 | 24 |
| B. A. History | BAHY | 50 | 46 |
| B. A. Economics | BAEC | 40 | 40 |
| B. A. Communicative English (TripleMain)(SF) | BACE | 30 | 34 |
| B. Sc. Mathematics | BSMT | 50 | 40 |

| Programme name | Program me Code | Number of seats sanctioned | Number of Students admitted |
|---|-----------------|----------------------------|-----------------------------|
| B. Sc. Physics | BSPH | 48 | 46 |
| B. Sc. Chemistry | BSCH | 48 | 40 |
| B. Sc. Zoology | BSZY | 48 | 47 |
| B. Sc. Botany | BSBY | 48 | 46 |
| B. Sc. Family & Community Science (Home Science) | BSHS | 36 | 28 |
| B. Sc. Biotechnology and Botany (SF) | BSBT | 30 | 32 |
| BCA(SF) | BBCA | 30 | 31 |
| B. Com. Model I Finance & Taxation | BCCM | 50 | 54 |
| B. Com. Model I Finance & Taxation (SF) | BCCM | 90 | 98 |
| B. Voc. Information Technology (SF) | BVIT | 0 | 0 |
| B. Voc. Travel, Tourism & Logistics Management (SF) | BVTT | 0 | 0 |
| M. A. English | MAEN | 25 | 24 |
| M. A. Malayalam | MAML | 15 | 14 |
| M. A. Sociology | MSSY | 25 | 20 |
| M. Sc. Mathematics | MSMT | 25 | 25 |
| M. Sc. Physics | MSPH | 15 | 13 |
| M. Sc. Applied Physics | MSAP | 10 | 9 |
| M. Sc. Chemistry | MSCH | 15 | 15 |
| M. Sc. Analytical Chemistry | MSAN | 15 | 15 |
| M. Sc. Applied Chemistry | MSAC | 15 | 15 |
| M. Sc. Zoology | MSZY | 10 | 12 |
| M. Sc. Botany | MSBY | 10 | 11 |
| M. Sc. Biotechnology(SF) | MSBT | 20 | 7 |
| M. Com. Finance | MCCM | 15 | 18 |
| M. A. History(SF) | MAHY | 15 | 7 |
| M. Sc. Home Science- Food Service Management and Dietetics (SF) | MSHS | 20 | 6 |
| M. A. Economics | MAEC | 0 | 0 |
| M. Com. Finance (SF) | MCCM | 0 | 0 |
| Ph.D in English | PHEN | 0 | 0 |
| Ph.D in Physics | PHPH | 0 | 0 |
| Ph.D in Zoology | PHZY | 1 | 1 |
| Ph.D in Commerce | PHCM | 3 | 3 |
| Ph.D in Mathematics | PHMT | 0 | 0 |

| Programme name | Program me Code | Number of seats sanctioned | Number of Students admitted |
|---------------------------------|-----------------|----------------------------|-----------------------------|
| Ph.D in Zoology | PHZY | 0 | 0 |
| Ph.D in chemistry | PHCH | 0 | 0 |
| Ph.D in botony | PHBY | 4 | 4 |
| Ph.D in Malayalam | PHML | 1 | 1 |
| Total Number of Students | | 931 | 847 |

2.4 Student Orientation and Induction Programme

The juncture proceeding 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.

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 and research rooms, provided with black/ green/ white boards, adequate infrastructure facilities. All departments have separate faculty rooms and are provided with laptops, desktops, printers.

2.6 Evaluation System and Results

The term and semester examinations held by the college are 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 office of the COE.

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.

Pass Percentage

| | |
|-----------|---------------|
| UG | 81.21% |
| PG | 91.60% |

2.9 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 2017-18 academic year, CMS College honoured eligible students from various academic streams who were categorised under 18 schemes.

| Name of the scheme | Number of students benefited by government scheme | | Number of students benefited by non-government scheme | |
|--------------------|---|---------|---|--------|
| | Number of students | Amount | Number of students | Amount |
| E GRANTZ- General | 272 | 1152401 | | |
| E GRANTZ- OBC | 203 | 782305 | | |
| E GRANTZ- OBC(H) | 18 | 281060 | | |

| Name of the scheme | Number of students benefited by government scheme | | Number of students benefited by non-government scheme | |
|------------------------------|---|----------------|---|---------------|
| | Number of students | Amount | Number of students | Amount |
| E GRANTZ- General | 272 | 1152401 | | |
| E GRANTZ- OEC | 272 | 3213720 | | |
| E GRANTZ- SC | 199 | 2607779 | | |
| E GRANTZ- ST | 38 | 341820 | | |
| ASPIRE SCHOLARSHIP | 1 | 8000 | | |
| BLIND/PH SCHOLARSHIP | 2 | 10000 | | |
| CENTRAL SECTOR SCHOLARSHIP | 19 | 190000 | | |
| CH MOHAMMEDKOYA SCHOLARSHIP | 6 | 60000 | | |
| JUNIOR RESEARCH FELLOWSHIP | 5 | 1980000 | | |
| KSHEC SCHOLARSHIP | 35 | 954000 | | |
| PJMS SCHOLARSHIP | 1 | 10000 | | |
| POSTMETRIC SCHOLARSHIP | 2 | 10656 | | |
| SJMS SCHOLARSHIP | 5 | 50000 | | |
| Freeships | | | 1106 | 282379 |
| DR.GEORGE M THOMAS ENDOWMENT | | | 3 | 4000 |
| Total | 1078 | 1651741 | 1109 | 286379 |

2.10 Awards/ Recognitions

Awards/ Recognitions won by Faculty

| Name of the teacher | Name of the award/fellowship | Year of Award | Awarding Agency |
|---------------------|------------------------------|---------------|---------------------------------------|
| Dr. Basil George | FLAIR Programme 2018-19 | 2018-19 | Kerala State Higher Education Council |
| Mr. Ditto Prasad | FLAIR Programme 2018-19 | 2018-19 | Kerala State Higher Education Council |

Awards/ Recognitions won by Students

| Name of the award/ medal | Team / Individual | interuniversity / state / National/ International | Name of the event | Name of the student |
|--------------------------|-------------------|---|---------------------------------|----------------------|
| 126th position | Individual | International | Commonwealth Chess Championship | Gabriel Benny Mathai |
| Second prize | Team | Interzone | Soft Ball | Gowri Sanker |
| | | | | Sobin Thomas |
| | | | | Sanjai P Sunil |

| Name of the award/ medal | Team / Individual | interuniversity / state / National/ International | Name of the event | Name of the student |
|--------------------------|-------------------|---|---|---------------------|
| Second prize | Individual | national | Inter University Youth Festival - Western Solo | Jemima Paul |
| 2nd Prize | group | State | Inter Collegiate Debate Competition | Bhagya Lekshmi J |
| | | | | Bharat S Panickar |
| | | | | Jojoy George |
| | | | | Della P Jose |
| Merit | Individual | State | Sports Pistol 25 M (ISSF) JR Men-Kerala State Shooting Championship | Shalon Kurian Shaji |
| Merit | Individual | State | Sports Pistol 25 M (NR) JR Men-Kerala State Shooting Championship | Shalon Kurian Shaji |
| Merit | Individual | State | Air Pistol 10 M (ISSF) JR Men-Kerala State Shooting Championship | Shalon Kurian Shaji |
| Merit | Individual | State | Air Pistol 10 M (NR) JR Men-Kerala State Shooting Championship | Shalon Kurian Shaji |
| Merit | Team | State | Standard Pistol 25 M (ISSF) JR Men-Kerala State Shooting Championship | Shalon Kurian Shaji |
| Merit | Team | State | Sports Pistol 25 M (NR) JR Men-Kerala State Shooting Championship | Shalon Kurian Shaji |
| Merit | Team | State | Standard Pistol 25 M (NR) JR Men-Kerala State Shooting Championship | Shalon Kurian Shaji |
| Merit | Team | State | Air Pistol 10 M (ISSF) JR Men-Kerala State Shooting Championship | Shalon Kurian Shaji |
| Merit | Team | State | Air Pistol 10 M (NR) JR Men-Kerala State Shooting Championship | Shalon Kurian Shaji |
| Second | Individual | State | Spot Photography Competition | Cyril Tom Varghese |
| First | team | State | Quiz Competition | Sonu Elizabeth Sam |
| | | | | Ann Mariya James |

2.11 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 2017-2018 sessions, the following is a study of stakeholder comments:

Feedback Mechanism

The college follows a systematic method to collect, process and store feedback reports regarding curriculum, department performance and faculty performance from students, teachers, alumni and employer.

Feedback on Syllabus and Curriculum

Feedback reports on syllabus and curriculum were collected from students, teachers, employer and stakeholders during the academic year 2017-18. These were then examined by the IQAC wing with the support of Statisticians from the Department of Statistics. The reports were then sent to respective Boards of Studies for further evaluation and revision of the existing syllabus.

Student Feedback Analysis Report (Academic Session 17-18)

| Particular | Strongly Agree | Agree (%) | Neutral (%) | Disagree (%) | Strongly Disagree |
|--|----------------|-----------|-------------|--------------|-------------------|
| Curriculum and syllabus is well organised and suitable to the programme | 44 | 55 | 1 | 0 | 0 |
| Curriculum integrates crosscutting issues relevant to Human Values/Environment/Sustainability | 3 | 11 | 86 | 0 | 0 |
| The contact hours stated in the syllabus is sufficient to complete the course within the stipulated time | 53 | 45 | 2 | 0 | 0 |
| Sufficient number of prescribed books and reference materials are available in the library | 40 | 59 | 1 | 0 | 0 |
| The syllabus generates interest in the subject area | 52 | 46 | 2 | 0 | 0 |
| Curriculum enrichment activities like field study and institute visits are included in the syllabus | 53 | 44 | 3 | 0 | 0 |
| Curriculum has prospects for higher education/employability/entrepreneurship/skill development | 7 | 8 | 85 | 0 | 0 |
| The curriculum has scope for internship/training/research | 37 | 61 | 2 | 0 | 0 |

Faculty Feedback Analysis Report (Academic Session 17-18)

| Particular | Strongly Agree | Agree | Neutral | Disagree | Strongly Disagree |
|---|----------------|-------|---------|----------|-------------------|
| The curriculum and syllabus content is well organised and suitable to the programme | 48 | 45 | 7 | 0 | 0 |

| | | | | | |
|--|----|----|---|---|---|
| Curriculum integrates crosscutting issues relevant to Human values/Environment/Sustainability | 53 | 42 | 5 | 0 | 0 |
| The contact hours stated in the syllabus is sufficient to complete the course within the stipulated time | 53 | 46 | 0 | 1 | 0 |
| Sufficient number of prescribed books and reference materials are available in the Library | 56 | 40 | 3 | 1 | 0 |
| The Curriculum has prospects for higher education/employability/entrepreneurship/skill development | 45 | 50 | 4 | 1 | 0 |
| The curriculum has a scope for internship/training/research | 38 | 61 | 1 | 0 | 0 |

Employer Feedback Analysis Report (Academic Session 17-18)

| Particular | Strongly Agree | Agree | Neutral | Disagree | Strongly Disagree |
|--|----------------|-------|---------|----------|-------------------|
| The curriculum is need based and meets the expectation for employment | 39 | 56 | 5 | 0 | 0 |
| The syllabus has good balance between theory and application | 60 | 40 | 0 | 0 | 0 |
| The Curriculum has prospects for higher education/employment | 56 | 43 | 0 | 1 | 0 |
| Awareness on the recent developments in the field provided | 53 | 46 | 0 | 1 | 0 |
| The curriculum makes the student competent | 48 | 50 | 2 | 0 | 0 |
| The curriculum can help the student to begin new ventures as it provides entrepreneurial motives | 42 | 56 | 2 | 0 | 0 |

Alumni Feedback Analysis Report (Academic Session 17-18)

| Particular | Strongly Agree | Agree | Neutral | Disagree | Strongly Disagree |
|---|----------------|-------|---------|----------|-------------------|
| The curriculum fulfils the prerequisites needed for employment/higher education | 55 | 44 | 1 | 0 | 0 |
| The syllabus generates interest in the subject area | 38 | 61 | 1 | 0 | 0 |
| The design of the course encourages self-learning | 43 | 56 | 0 | 1 | 0 |
| The curriculum ensures overall development of student | 43 | 56 | 1 | 0 | 0 |
| The Curriculum has been helpful to you with your present status/employment/higher education | 56 | 42 | 1 | 1 | 0 |

2.12 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.

Projects/ FDP/ seminar/ conferences Undertaken / attended by faculty

The college regularly receives grants from government and non-governmental agencies for research projects, endowments, and Chairs. During the 2017-18 academic years, faculty members from two different departments of the institution have undertaken government funded research projects.

| Sl No. | Name of the Principal Investigator/ Co-Investigator (if applicable) | Name of the Funding agency | Type (Government/Non-Government) | Department of Principal Investigator/ Co-Investigator | Duration of the project |
|--------|---|----------------------------|----------------------------------|---|-------------------------|
| 1 | Dr Basil George | NIF | Government | Botany | 1 year |
| 2 | Dr Basil George | DBT | Government | Botany | 1 year |
| 3 | Dr Sony Joseph | KSCSTE | Government | Botany | 3months |
| 4 | Smt. Christine Sara Abraham | KSCSTE | Government | Botany | 3 months |
| 5 | Dr Basil George | KSCSTE | Government | Botany | 3 months |
| 6 | Dr Basil George | KSCSTE | Government | Botany | 3 months |
| 7 | Dr Basil George | KSCSTE | Government | Botany | 3 months |
| 8 | Dr Gigi George | KSCSTE | Government | Chemistry | 2 years |

The number of professional development / administrative training programmes organized by the Institution for its teaching and non-teaching staff during the year 2017-18

| Dates | Title of the professional development program/administrative training program organised for teaching and non-teaching staff |
|----------|---|
| 26-03-18 | Zoology Curriculum revision workshop |

| Dates | Title of the professional development program/administrative training program organised for teaching and non-teaching staff |
|---------------------------|---|
| 22-03-2018 to 25-03-2018 | Hands-on Training for Teachers and Students |
| 16-03-2018 to 17-03-2018 | Two-day HRD Training Programme on Pedagogy of Mutuality |
| 9-01-2018 to 11-01-2018 | International Workshop and Seminar on Stochastic Modelling Analysis and Applications |
| 27-01-18 | One-day seminar on 'Quality Sustenance in Higher Education: Challenges and Opportunities |
| 29-12-17 | Zoology Curriculum Revision Workshop |
| 12-12-17 | Undergraduate Curriculum Revision Workshop |
| 25-11-17 | A one-day workshop on Curriculum Revision in Commerce |
| 24-11-17 | A One-day Curriculum Revision Workshop in BCA |
| 17-07-2017 to 18-07-2017 | Stochastic Models |
| 12-06-2017 to 27-06- 2017 | Scholar in Residence Programme |
| 17-06-2017 & 19-06-2017 | Workshop on Curriculum Restructuring |

3. RESEARCH

3.1 Research Centres

The departments of Botany, Chemistry, Commerce, English, Physics, Mathematics, Zoology, Malayalam and Sociology are the recognized research centres at CMS College, Kottayam. Awards for the completion of Ph. Ds, Research Innovation awards, and Research Excellence awards 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 DSPCE along with TURNITIN software for plagiarism checking.

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. The Research Seed Money Grant aids faculty members in preliminary research since 2017. This grant provides financial support for attending workshops and seminars, along with other incentives for scholarly publications in Indexed Journals. A one-day seminar on ‘TRENDS IN THERMOELECTRICITY’ was conducted on 13th February 2017 by the Department of Physics, CMS College at the E-Learning Centre. Dr Gunadhar S Okhram, the keynote speaker, emphasized the latest developments in the theory of Thermoelectricity and elaborated on the progress of nano thermoelectric. A seminar on ‘Introduction to bio mimetic technology and Dr George M Thomas Memorial Lecture -2017’ was conducted on 16th March 2017 by the Department of Physics, CMS College, and Kottayam. This seminar organized by Dr George M Thomas Endowment Trust focused on the substantial benefits of bio mimetic and the development of sensory-enhancing microchips interfaced with the brain to assist in hearing, seeing and controlling instruments.

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 enormous amount of funds 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 nine active research centres with supervising teachers.

List of research scholars joined in 2017-18

| Sl. No. | Regn. No. & Year: | Name | Subject/ Specialization | Full Time / Part Time | Name of Supervising teacher |
|--|-------------------|-------------------|-------------------------|-----------------------|-----------------------------|
| 1 | 104/2017 | Prasanna Rajan | Botany | Part Time | Dr Elizabeth Cherian |
| Title of research: Evaluating the potential of indigenous microbes in mangrove vegetation associated with Vembanadu Lake | | | | | |
| 2 | 93/2017 | Reedhu Raj | Botany | Part Time | Dr Elizabeth Cherian |
| Title of research: Studies on the microbiome associated with the endangered wild epiphytic orchids of Pathanamthitta district of Kerala | | | | | |
| 3 | 100/2017 | Shanti Joseph | Botany | Full Time | Dr Elizabeth Cherian |
| Title of research: Photosynthesis of Zn nanoparticles from Eichhornia crassipes (Mart) Solms | | | | | |
| 4 | 101/2017 | Sijo Mathew | Botany | Part Time | Dr Elizabeth Cherian |
| Title of research: The impact of Chemical fertilizers on physicochemical characters of soil and nutrient mobilizing rhizosphere microflora in the paddy fields of North Kuttanad and Vaikom Karinilam region | | | | | |
| 5 | 37/2017 | Jisha Mary Mathew | Commerce | Part Time | Dr Roy Sam Daniel |
| Title of research: Customer Perception And Satisfaction Towards Health Insurance Policies In Kerala | | | | | |
| 6 | 38/2017 | Minnie Mary Ninan | Commerce | Part Time | Dr Tomy Mathew |
| Title of research: Validation of Efficient Market Hypothesis in Indian Stock Market – A Study with Special Reference to Managed Funds | | | | | |
| 7 | 29/2017 | Susan K Wilson | Zoology | Part Time | Dr Jobin Mathew |
| Title of research: Comparative Analysis on the Bioecology of Genera Apanteles and Cotesia (Hymenoptera: Braconidae:Microgastrinae) with Special Emphasis on Rice Agroecosystems | | | | | |

3.3 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.

Number of Research papers in the Journals notified on UGC website

| Sl No. | Title of paper | Name of the author/s | Department of the teacher | Name of journal | Year of publication | ISSN No. | UGC List |
|--------|--|------------------------|---------------------------|--|---------------------|-----------|--------------|
| 1 | Skin of the Catfish (<i>Arius Bilineatus</i> , Val.) Contains Lipid Compounds that Regulate NET Formation and NET-Mediated Inflammation | Oommen, Sosamma et al. | Zoology | FASEB Journal | 2017 | 0892-6638 | WoS |
| 2 | Altered muscarinic receptor expression in the cerebral cortex of epileptic rats: Restorative role of <i>Withania somnifera</i> , | Jobin Mathew al. | Zoology | Biochemistry and Cell Biology | 2017 | 1208-6002 | Scopus & WoS |
| 3 | Preliminary Phytochemical study and HPTLC valuation of leaves of grey mangrove <i>Avicennia marina</i> . | N.Hari et al. | Botany | Journal of Pharmacognosy and Phytochemistry. | 2017 | 2278-4136 | UGC |
| 4 | Leaf and Petiole anatomy of some members of Rhizophoraceae (Mangroves) in Kerala. | N.Hari et al. | Botany | International Journal of Pharmaceutical Science and Research | 2017 | 2455-4685 | UGC |
| 5 | Preliminary Phytochemical assessment and HPTLC characterization of leaves of medicinal mangrove <i>Acanthus ilicifolius</i> L. | N.Hari et al. | Botany | International Journal of Pharmaceutical Science and Research. | 2017 | 2455-4685 | UGC |
| 6 | Leaf anatomical adaptation of some true mangrove species in Kerala | N.Hari et al. | Botany | International Journal of Pharmaceutical Science and Research. | 2017 | 2455-4685 | UGC |
| 7 | Identification of Medicinal Mangrove <i>Acanthus ebracteatus</i> Vahl., Morphological, Phytochemical and DNA Barcoding Methods. | N.Hari et al. | Botany | International Journal of Pharmaceutical Science and Research. | 2017 | 2455-4685 | UGC |
| 8 | Petiole anatomical characteristics of true mangrove species in Kerala. | N.Hari et al. | Botany | International Journal of Biology Research. | 2017 | 2455-6548 | UGC |
| 9 | DNA barcoding as a means for identifying mangrove plants of Kerala | N.Hari et al. | Botany | International Journal of Academic Research and Development | 2017 | 2455-4197 | UGC |
| 10 | Impact of Different Dilutions of Retted Water (Open- field) on Seed Germination And Vigour Index In <i>Sesamum indicum</i> L. Var. Kylm-1 And <i>Vigna unguiculata</i> (L.) Walp. Var. Jyothika. | N.Hari et al. | Botany | International Journal of Scientific Research in Science and Technology | 2017 | 2395-6011 | UGC |
| 11 | DNA barcoding of Mangroves using Ribosomal ITS Marker in Rhizophoraceae. | N.Hari et al. | Bot any | International Journal of Scientific Research in | 2017 | 2395-602X | UGC |

| Sl No. | Title of paper | Name of the author/s | Department of the teacher | Name of journal | Year of publication | ISSN No. | UGC List |
|--------|---|----------------------|---------------------------|---|---------------------|-----------|--------------|
| | | | | Science and Technology | | | |
| 12 | Use of Noncoding Plastid Marker trnI-F as DNA Barcode for Identification of True Mangrove Genus Rhizophora. | N.Hari et al. | Botany | International Journal of Scientific Research in Science, Engineering and Technology(IJS RSET) | 2017 | 2394-4099 | UGC |
| 13 | Anatomical, Morphological, Palynological, Phytochemical and Molecular Profiling of Medicinal Mangrove Avicennia marina (Forssk.) Vierh. (Avicenniaceae). | N.Hari et al. | Botany | International Journal of Scientific Research in Science and Technology | 2017 | 2395-602X | UGC |
| 14 | Stem Anatomy of Selected True Mangrove Species in Kerala. | N.Hari et al. | Botany | International Journal of Scientific Research in Science, Engineering and Technology | 2017 | 2394-4099 | UGC |
| 15 | Core-shell nanoparticles of carboxy methyl cellulose and compritol-PEG for antiretroviral drug delivery | Laly A pothen | Chemistry | Cellulose | 2017 | 1572-882X | Scopus & WoS |
| 16 | Novel dendritic structure of alginate hybrid nanoparticles for effective anti-viral drug delivery. | Laly A pothen | Chemistry | International journal of biological macromolecules | 2017 | 1879-0003 | Scopus & WoS |
| 17 | Gelatin modified lipid nanoparticles for anti- viral drug delivery | Laly A pothen | Chemistry | Chemistry and Physics of Lipids | 2017 | 1873-2941 | Scopus |
| 18 | Theoretical Probing of Weak Anion-Cation Interactions in Certain Pyridinium-Based Ionic Liquid Ion Pairs and the Application of Molecular Electrostatic Potential in Their Ionic Crystal Density Determination: A Comparative Study Using Density Functional Approach | Vibin Ipe Thomas | Chemistry | The Journal of Physical Chemistry A | 2017 | 1089-5639 | Scopus |
| 19 | Dynamic Relationship between Foreign Institutional Investments and movements in Indian Stock Market | Tomy Mathew | Commerce | Finance India | 2017 | 0970-3772 | UGC |
| 20 | Regional differences in Growth of entrepreneurship among SC/STs in MSMEs- A study with Special reference to Northern and Southern Regions of Kerala | Tomy Mathew | Commerce | International Journal of Research in Commerce and Management | 2017 | 0976-2183 | UGC |

| Sl No. | Title of paper | Name of the author/s | Department of the teacher | Name of journal | Year of publication | ISSN No. | UGC List |
|--------|--|---------------------------|------------------------------|---|---------------------|-------------|--------------|
| 21 | Regional differences in entrepreneurial Motives- A case of Kerala | Tomy Mathew | Commerce | International Journal of Commerce and Management Research | 2017 | 2455-1627 | UGC |
| 22 | Regional differences in Growth of output in MSMEs- A study with Special reference to Northern and Southern Regions of Kerala | Tomy Mathew | Commerce | Journal of Accounting and Management | 2017 | 2284-9459 | UGC |
| 23 | An Econometric Analysis of Causality Between Foreign Institutional Investors and BSE SENSEX | Tilda Mary Daniel | Commerce | International Research Journal of Management and Commerce | 2017 | 2348-9766 | UGC |
| 24 | Influence of Demographic Variables of Customers on the satisfaction of E-Banking services | Vimal George Kurian | Commerce | International Research Journal of Management and Commerce | 2017 | 2348-9766 | UGC |
| 25 | Asymmetric volatility of the Indian stock market and foreign portfolio investments: An empirical study | Varughese A., Mathew T. | Commerce | Indian Journal of Finance | 2017 | 0973 - 8711 | Scopus |
| 26 | Effect of Anisotropy of Lighter and Heavier Ions on Solitary Waves in a Multi-Ion Plasma. | Neethu Theresa Willington | Physics | Physics of Plasmas | 2017 | 1089-7674 | Scopus |
| 27 | Synthesis of ZnO nanoparticle and evaluation of its potential to enhance the activity of antibiotics | Preema C Thomas | Physics | IOP Conference Series: Materials Science and Engineering | 2017 | 1757-899X | Scopus |
| 28 | Dynamic mechanical analysis and thermal degradation of Jute reinforced BSFT(Ba _{0.6} Sr _{0.4} Fe _x Ti _(1-x) O _{3-δ} , (x=0.1)-polypropylene composite | Reenu Jacob | Physics | Indian Journal of Pure & Applied Physics | 2017 | 0975-1041 | Scopus & WoS |
| 29 | Structural and Luminescent studies on Cerium doped Strontium Barium Niobate | P.Nuja S John | Physics | AIP Conference Proceedings | 2017 | 1551-7616 | Scopus |
| 30 | Sol-gel synthesized silver nanoparticles doped silica/titanosilicate films for plasmonic solar cell applications | Arun Kumar K V | Physics | AIP Conference Proceedings | 2017 | 1551-7616 | Scopus |
| 31 | Logarithmic temperature dependence of conductivity in a random quasi two dimensional assembly of gold nanoclusters. | Thejal Abraham | Physics | Journal of Physics Communications | 2017 | 2399-6528 | UGC |
| 32 | Dietary modification through nutrition education in fat tissue distribution among the selected obese menopausal women | Sherin Thomas | Family and Community Science | Star research International | 2017 | 0975-5101 | UGC |
| 33 | Margamkali - Bahuswarathayude arthamanagal | Smitha Daniel S.L. | Malayalam | Malayalam Research Journal | 2017 | 0974-1984 | UGC |

| Sl No. | Title of paper | Name of the author/s | Department of the teacher | Name of journal | Year of publication | ISSN No. | UGC List |
|--------|--|-------------------------|---------------------------|---|---------------------|-----------|--------------|
| 34 | Akshepahasyam TKC Vaduthalayude kadhakalil | Saritha T.S. | Malayalam | Malayalam Research Journal | 2017 | 0974-1984 | UGC |
| 35 | Tolstoyude Janapriya samskara chinthakal | Santhini Thomas | Malayalam | Malayalam Research Journal | 2017 | 0974-1984 | UGC |
| 36 | Role of old age policies and programmes in an ageing India , special reference to Kerala | Johnson MM | Sociology | ISDA Journal | 2017 | 0971-2550 | UGC |
| 37 | Performance Analysis of Improved Enciphering Matrices | Anooja I | Mathematics | International Journal of Mathematical Sciences | 2017 | 0972-754X | UGC |
| 38 | Evaluation of antitumour activities of different plants on Agrobacterium tumefaciens, its isolation and characterization | Dr Baaby Job | Zoology | Life Sciences International Research Journal. | 2018 | 2347-8691 | UGC |
| 39 | Furanoid F-Acid F6 Uniquely Induces NETosis Compared to C16 and C18 Fatty Acids in Human Neutrophils. | Sosamma Oommen et al. | Zoology | Biomolecules | 2018 | 2218-273X | Scopus & WoS |
| 40 | New species of termite Pericapritermes Travancorensis sp.nov.(Isoptera: Termitidae:Termitinae) from India. | Jobin Mathew | Zoology | Journal of Threatened Taxa | 2018 | 0974-7907 | Scopus |
| 41 | A Privacy Preserving Anonymization Approach using Scalable Top Down Specialization and Randomization for Big Data Security | Aithramol S | Computer Science | International Journal of Computer Science and Engineering | 2018 | 2347-2693 | UGC |
| 42 | Synthesis of ZnO nanoparticles and evaluation of its potential to enhance the activity of antibiotics | Preema C. Thomas et al. | Botany | Materials Science and Engineering | 2018 | 0921-5093 | UGC |
| 43 | Diversity analysis and present status of Mangroves from Kerala, West Coast of India | N.Hari. et al. | Botany | International Journal of Advanced and Innovative Research | 2018 | 2278-7844 | UGC |
| 44 | Eco Anatomical adaptation of leaf in selected true mangrove species in Kerala | N.Hari. et al. | Botany | International Journal of Advanced and Innovative Research | 2018 | 2278-7844 | UGC |
| 46 | Taxonomic relationship on Garcinia species based on anatomical characteristics | Hari N. et al. | Botany | Life Sciences International Research Journal | 2018 | 2347-8691 | UGC |
| 47 | Systematic studies in the Genus Sonneratia l.f. (Lythraceae) from Kerala. | N.Hari. et al. | Botany | International Journal of Innovative | 2018 | 2454-2415 | UGC |

| Sl No. | Title of paper | Name of the author/s | Department of the teacher | Name of journal | Year of publication | ISSN No. | UGC List |
|--------|--|--|---------------------------|---|---------------------|-----------|--------------|
| | | | | Knowledge Concepts. | | | |
| 48 | A study on Leaf and Petiole anatomy of Endemic and Vulnerable species of Garcinia | N. Hari. et al. | Botany | Journal of Emerging Technologies and Innovative Research | 2018 | 2349-5162 | UGC |
| 49 | Ecological Characterisation of True Mangrove Species in Kerala. | N.Hari et al. | Botany | Star International Journal | 2018 | 2321-676X | UGC |
| 50 | Preliminary Phytochemical Evaluation and HPTLC Fingerprint Profile of Jasminum azoricum L. | N. Hari et al. | Botany | International Journal of Scientific Research in Science, Engineering and Technology | 2018 | 2395-1990 | UGC |
| 51 | FTIR Spectroscopic Analysis of Leaf Extract in Hexane in Jasminum azoricum L. | N. Hari et al. | Botany | International Journal of Scientific Research in Science and Technology | 2018 | 2395-6011 | UGC |
| 52 | Anatomical, Morphological, Palynological, Phytochemical and Molecular Profiling of Medicinal Mangrove Acanthus ilicifolius L. (Acanthaceae). | N.Hari. et al. | Botany | Star International Journal | 2018 | 2321-676X | UGC |
| 53 | Electrospun polylactic acid-chitosan composite: a bio-based alternative for inorganic composites for advanced application | Laly A pothen | Chemistry | Journal of Materials Science: Materials in Medicine | 2018 | 1573-4838 | Scopus & WoS |
| 54 | Synthesis and Activity of Escherichia coli on Different Chitosan Nanoparticles | Laly A pothen | Chemistry | Macromolecular Symposia | 2018 | 1521-3900 | Scopus |
| 55 | Non-innocent probes in direct sonication: Metal assistance in oxidative radical C-H functionalization | Rony Rajan Paul | Chemistry | Ultrasonics Sonochemistry | 2018 | 1350-4177 | Scopus & WoS |
| 56 | Encapsulation of zidovudine in PF-68 coated alginate conjugate nanoparticles for anti-HIV drug delivery | Laly A.P. et. al | Chemistry | International Journal of Biological Macromolecules | 2018 | 0141-8130 | Scopus & WoS |
| 57 | Cu-and Zr-based metal organic frameworks and their composites with graphene oxide for capture of acid gases at ambient temperature | Gigi George | Chemistry | Journal of Solid State Chemistry | 2018 | 0022-4596 | Scopus & WoS |
| 58 | Functionalized Phosphorene Quantum Dots as Efficient Electrocatalyst for Oxygen Evolution Reaction | Prasannachandran R., Vineesh T.V., Anil A., Krishna B.M., Shaijumon M.M. | Chemistry | ACS Nano | 2018 | 1936-0851 | Scopus & WoS |

| Sl No. | Title of paper | Name of the author/s | Department of the teacher | Name of journal | Year of publication | ISSN No. | UGC List |
|--------|--|------------------------------------|---------------------------|--|---------------------|-----------|--------------|
| 59 | Poly (vinyl pyrrolidone)-lipid based hybrid nanoparticles for anti viral drug delivery | Laly. A. P. | Chemistry | Chemistry and Physics of Lipids | 2018 | 0009-3084 | Scopus & WoS |
| 60 | Factors influencing employee performance: A study on Federal bank in Ernakulam district | Tomy Mathew | Commerce | International Research Journal of Management and Commerce | 2018 | 2348-9766 | UGC |
| 61 | Perception of bank employees towards job satisfaction: Special reference to State Bank of India in Pathanamthitta District | Tomy Mathew | Commerce | International Research Journal of Management and Commerce | 2018 | 2348-9766 | UGC |
| 62 | Regional Differences in growth of employment Generation by MSMEs A Study With Reference to Northern and Southern Regions of Kerala | Tomy Mathew | Commerce | Productivity, New Delhi | 2018 | 0032-9924 | UGC |
| 63 | A study on perception of security of E-Banking services and demographic variables | Vimal George Kurian | Commerce | International Research Journal of Management and Commerce | 2018 | 2348-9766 | UGC |
| 64 | Awareness and Satisfaction Level of GST among Consumers in Kerala | Tomy Mathew et al. | Commerce | Research Review Journals | 2018 | 2455-3085 | UGC |
| 65 | Performance Evaluation of Investments under active and passive investment strategies. | Minnie Mary Ninan & Dr.Tomy Mathew | Commerce | Research Review :International Journal for Multi disciplinary | 2018 | 2455-3085 | UGC |
| 66 | Solar Energy Development in India: An Approach Towards Sustainability | Nibu Varghese | Economics | Online International Interdisciplinary Research Journal (Bi-Monthly) | 2018 | 2249-9598 | UGC |
| 67 | Channelizing Energy and Affixation of Personality. The Study on the Life of Sylvia Plath and Kambili Achike | Susan Mathew | English | International Journal of English Language, Literature in Humanities | 2018 | 2321-7065 | UGC |
| 68 | Beyond the Edge of Certainty | Anju Sosan George | English | MZU Journal of Literature and Cultural Studies | 2018 | 2348-1188 | UGC |

| Sl No. | Title of paper | Name of the author/s | Department of the teacher | Name of journal | Year of publication | ISSN No. | UGC List |
|--------|--|---------------------------|---------------------------|---|---------------------|-----------|--------------|
| 69 | Locating the Local in Narrative: Bioregional Perspectives in Kullark.” | Aleena Manoharan | English | International Journal of English Language, Literature in Humanities | 2018 | 2321-7065 | UGC |
| 70 | Hyper reality as the New Reality: The Urban Youth of India with reference to the Select Movies | Selin Samuel | English | International Journal of English Language, Literature in Humanities | 2018 | 2321-7065 | UGC |
| 71 | Women's Cinema: A Critical Analysis of the Bollywood Movie Parched | Jeena Shaji | English | International Journal of English Language, Literature in Humanities | 2018 | 2321-7065 | UGC |
| 72 | Dalit Sahityam swathanthryapoorva kattathil | Saritha T.S. | Malayalam | Vijnanakairali | 2018 | 2349-1051 | UGC |
| 73 | Rogue Waves In Multi-Ion Cometary Plasmas | Neethu Theresa Willington | Physics | Plasma Physics Reports | 2018 | 1063780X. | Scopus & WoS |
| 74 | Scaled Quantum Chemical Studies and Vibrational Spectra of Conjugated Structure 2-Benzylidenehydrazinecarbothio amide | C. Ravikumar | Physics | Optics and Spectroscopy | 2018 | 1562-6911 | Scopus & WoS |
| 75 | A Study on the Prevalence of Non-Communicable Diseases and the associated risk factors in Kottayam,Kerala using Combined Effective Time Dependent Matrix | Sindhu Thomas,Sreeja K | Mathematics | International Journal of Research and Analytical Reviews | 2018 | 2349-5138 | UGC |
| 76 | A study on income generating activities of shgs and their problems in kottayam district, kerala using fuzzy matrix theory | Sindhu Thomas,Sreeja K | Mathematics | International Journal of Research and Analytical Reviews | 2018 | 2348-1269 | UGC |
| 77 | Polly Cracker Public Key Cryptosystem Using Graph Parameters | Anooja I | Mathematics | International Journal of Mathematical Sciences | 2018 | 0972-754X | UGC |
| 78 | Effect of water pollution: a histological examination in Rasbora dandia (Hamilton, 1822) | Dr. Baaby Job | Zoology | Indian Journal Scientific of Research | 2018 | 2250-0138 | UGC |

| Sl No. | Title of paper | Name of the author/s | Department of the teacher | Name of journal | Year of publication | ISSN No. | UGC List |
|--------|--------------------------------------|----------------------|---------------------------|--|---------------------|-----------|----------|
| 79 | Encryption Through Graph Polynomials | Anooja I | Mathematics | International Journal of Mathematical Sciences | 2018 | 0972-754X | UGC |

Books/Conference/Proceedings

| Sl. No. | Name of the Faculty | Title of the Book Published | Title of the Book Chapter | Title of the Proceedings | ISBN/ISSN Number |
|---------|---------------------|-----------------------------|--|--|-------------------|
| 1 | Seema R | NIL | Synthesis and Characterization of Pure and Silver Doped Zinc Oxide Nanoparticles Using PEG 4000 | Proceedings of the UGC sponsored National Seminar on Materials for Emerging Technology | 978-81-937052-1-6 |
| 2 | Sam Rajan | NIL | X-RAY Deffraction Analysis of Nano Crystalline Ceramic YSSCO Without Oxygen Annealing | Proceedings of the UGC sponsored National seminar on Materials for Emerging Technology | 978-81-937052-1-6 |
| 3 | Nuja S John | NIL | NIR Luminescence of Nanosized Sr _{0.5} Ba _{0.5} Nb ₂ O ₆ Pr ³⁺ Ceramic System | Proceedings of the UGC sponsored National seminar on Materials for Emerging Technology | 978-81-937052-1-6 |
| 4 | C. Ravikumar | NIL | Vibrational Spectroscopic Analysis of BIS (2-Hydroxyphenyl) Methanone | Proceedings of the UGC sponsored National seminar on Materials for Emerging Technology | 978-81-937052-1-6 |
| 5 | C. Ravikumar | NIL | Vibrational Spectroscopic Analysis of Nonlinear Optical Crystal 2- Aminopyridinium Fumarate Fumaric Acid | Proceedings of the UGC sponsored National seminar on Materials for Emerging Technology | 978-81-937052-1-6 |
| 6 | C. Ravikumar | NIL | Vibrational Spectroscopic Analysis of Nonlinear Optical Crystal L- Argininium Maleate | Proceedings of the UGC sponsored National seminar on Materials for Emerging Technology | 978-81-937052-1-6 |
| 7 | Arun Kumar K V | NIL | Optical and Structural Characterisation of Sol- Gel Synthesised Plasmonic Nanoparticles Annealed at Different Temperature | Proceedings of the UGC sponsored National seminar on Materials for Emerging Technology | 978-81-937052-1-6 |
| 8 | Dr.Nisha P Aravind | NIL | A preliminary study on the Lepidopteran Diversity around the premises of CMS College, Kottayam. | Proceedings of the UGC sponsored national seminar on Agroforestry with special reference to apiculture | 978-81-937052-0-9 |
| 9 | Dr. Sosamma Oommen | NIL | Effect of Phytochemicals in Controlling the population of Soldier fly larva, Hermetia illucens in Decentralized waste Management Unit. | Proceedings of the UGC sponsored national Seminar on Agroforestry with special reference to apiculture | 978-81-937052-0-9 |
| 10 | Dr. Sosamma Oommen | NIL | Treatment of Domestic Wastewater Using Plants as Biofiltering Agents. | Proceedings of the UGC sponsored national Seminar on Agroforestry | 978-81-937052-0-9 |

| Sl. No. | Name of the Faculty | Title of the Book Published | Title of the Book Chapter | Title of the Proceedings | ISBN/ISSN Number |
|---------|-----------------------|-----------------------------|--|--|-------------------|
| | | | | with special reference to apiculture | |
| 11 | Dr. Sosamma Oommen | NIL | Biopesticidal effect of spices and aromatic plant parts against rice weevil, <i>Sitophilus oryzae</i> . | Proceedings of the UGC sponsored national seminar on Agroforestry with special reference to apiculture | 978-81-937052-0-9 |
| 12 | Dr. Jobin Mathew | NIL | Diversity of termites in Kumarakom bird sanctuary, Kottayam district, Kerala | Proceedings of the UGC sponsored national seminar on Agroforestry with special reference to apiculture | 978-81-937052-0-9 |
| 13 | Dr. Jobin Mathew | NIL | Diversity of Family Aphididae in Indian Subcontinent | Proceedings of the UGC sponsored national seminar on Agroforestry with special reference to apiculture | 978-81-937052-0-9 |
| 14 | Dr. Jobin Mathew | NIL | Odontotermes Species Diversity in CMS College Campus | Proceedings of the UGC sponsored national seminar on Agroforestry with special reference to apiculture | 978-81-937052-0-9 |
| 15 | Dr. Jobin Mathew | NIL | A Systematic review on the diversity of stingless honey bees (<i>Meliponini</i>) of Indian subcontinent | Proceedings of the UGC sponsored national seminar on Agroforestry with special reference to apiculture | 978-81-937052-0-9 |
| 16 | Dr. Baaby Job | NIL | A study on the spiders (<i>Araneae</i>) associated with <i>Calotropis gigantea</i> (L) W.T. Aiton, 1811 in Peechi, Thrissur | Proceedings of UGC sponsored National seminar on Agroforestry with special reference to apiculture | 978-81-937052-0-9 |
| 17 | Dr. Baaby Job | NIL | A taxonomic study on the family Eurytomidae (<i>Hymenoptera: Calcidoidea</i>) associated with rice ecosystem in Thrissur and Palakkad districts of Kerala. | Proceedings of UGC sponsored National seminar on Agroforestry with special reference to apiculture | 978-81-937052-0-9 |
| 18 | Dr. Mini Chacko | NIL | NIL | Proceedings of UGC Sponsored National seminar on Bioprospecting - A Quest for natural solutions | 978-81-806201-5-8 |
| 19 | Dr. Elizabeth Cherian | NIL | NIL | Proceedings of UGC Sponsored National seminar on Bioprospecting-A Quest for natural solutions | 97881806201-5-8 |
| 20 | Dr. Rogimon P Thomas | NIL | NIL | Proceedings of UGC Sponsored National seminar on Bioprospecting- A Quest for natural solutions | 9788-180620158 |

| Sl. No. | Name of the Faculty | Title of the Book Published | Title of the Book Chapter | Title of the Proceedings | ISBN/ISSN Number |
|---------|---|--|---|--|--------------------------|
| 21 | Dr. Ajish K. R. | Basic Organic Chemistry | NIL | NIL | 978-9284663-81-1 |
| 22 | Dr. Aleena Manoharan | Re-thinking Environment : Literature, Ethics and Praxis. | “Creating a Sense of Place through Literature: A Bioregional Reading of Barungin (Smell the Wind).” | NIL | 978-93-5207-466-2 |
| 23 | Radhika G | The Voice of History: Collected Essays on Kerala | Ulloor S Parameswara Iyer and The Temple Entry Proclamation of 1936 | NIL | 978-81-927911-4-2 |
| 24 | Dr. Sumi Mary Thomas | Understanding Early India: From Hunting Gatherers to Land Grants | NIL | NIL | 978819-2599151 |
| 25 | Dr. Sumi Mary Thomas | The Voice of History; Collected Essays on Kerala | Missionaries, Western Education and Kerala : A Historical Journey’ | NIL | 978-81-927911-4-2 |
| 26 | Dr. Amrutha Rinu Abraham | Ageing gracefully: A Multidisciplinary perspective | Patterns of Ties with the 'Third Generation': A study among the Grandparents | NIL | 978-81-86660-30-0 |
| 27 | A. Krishnamoorthy, V. C. Joshua & Ambily P. Mathew | NIL | A Retrieval Queueing System with Abandonment and Search for Priority Customers | Communications in Computer and Information Science | 978-3-319-66835-2 |
| 28 | A.Krishnamoorthy, V.C.Joshua and Dhanya Babu | NIL | A Token Based Parallel Processing Queueing System with Priority | Communications in Computer and Information Science | 978-3-319-66835-2 |
| 29 | T.G.Deepak, A.N.Dudin, V.C.Joshua, A.Krishnamoorthy and Vladimar Vishnevsky | NIL | On an BMAP/G/1 Retrieval System with Two Types of Search of Customers from the Orbit | Communications in Computer and Information Science | 978-3-319-68068-2 |
| 30 | Vishnevsky V.M., Samouylov K.E., Naumov V.A., Krishnamoorthy A., Yarkina N | NIL | Multiservice Queueing System with MAP Arrivals for Modelling LTE cell with H2H and M2M Communications and M2M Aggregation | Communications in Computer and Information Science | <u>978-3-319-66835-2</u> |

3.4 List of faculty members awarded Ph.D

| NAME | DEPARTMENT | YEAR |
|--------------------------|---------------|------|
| Dr. Linu Kuruvilla | Biotechnology | 2017 |
| Dr. Manjumol Mathew | Chemistry | 2017 |
| Dr. Amrutha Rinu Abraham | Sociology | 2017 |
| Dr. Rogimon P Thomas | Botany | 2017 |
| Dr. Sibin Mathew Medayil | Sociology | 2017 |
| Dr. Smitha S | Biotechnology | 2017 |
| Dr. Reenu Jacob | Physics | 2018 |

3.5 Conferences/Seminars

| SI No. | Department | Number of Participants | Name of the workshop/ seminar |
|--------|----------------|------------------------|--|
| 1 | Zoology | 46 | Skill Development workshop Simple tasks Great concepts II- Skill development |
| 2 | Zoology | 22 | Two-day skill development workshop on 'Advanced training in Molecular biology techniques'-Skill development |
| 3 | Botany | 43 | Taxonomy and herbarium preparation techniques |
| 4 | Botany | 25 | Molecular Biology Training Programme- Skill development |
| 5 | Commerce Aided | 13 | Workshop on Research Methodology- Statistical Data Analysis-Research Methodology |
| 6 | English | 87 | UGC Sponsered National Seminar on Sexual Orientation and Gender Identity |
| 7 | Chemistry | 25 | Seminar on Chemistry Nobel Prize- Research Methodology and skill development |
| 8 | Malayalam | 84 | Seminar- Benjamin Baileyum pravarthana mekhalakalum-Research Methodology and skill development |
| 9 | Mathematics | 48 | Seminar on how math models the real world- Research methodology and skill development |
| 10 | Mathematics | 50 | A talk on "Representation of convex sets"- Research Methodology and skill development |
| 11 | Mathematics | 25 | Summer school on Gibonacci Family: Ubiquity, Properties and Applications- Skill Development and Research Methodology |

4. EXTRACURRICULAR ACTIVITIES

4.1 Extension 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 sports, games and other cultural activities.

NSS Organized Activities and Outreach Programmes

| Sl No | Name of the Activity | Details of the programme |
|-------|---|--|
| 1 | Free Ayurveda Camp (Community Outreach Programme) | A free Ayurveda camp was initiated by the NSS Unit of CMS College in association with Kottakal Arya Vaidyasala, Malapuram in the college campus. This community outreach programme was conducted after realizing the peoples lack of access to proper healthcare due to numerous reasons. The camp was inaugurated by Sri Jose Panachipuram who is a noted Malayalam writer and the people who visited the camp thanked CMS College and Kottakal Arya Vaidyasala for conducting a free Ayurveda camp. |
| 2 | Blood Donation Camp (Community Outreach Programme) | A Mega Blood Donation camp was organised by the NSS Unit of CMS College in coordination with the District Hospital Kottayam. This community outreach programme aimed at donating blood and saving lives and thereby making the students socially responsible citizens. A medical team under the leadership of Dr Suma from the District Hospital Kottayam oversaw the activities and she spoke on the occasion. Students including a huge number of NSS Volunteers donated their blood. |
| 3 | Awareness on Organic Farming in Kottayam District. | An awareness on organic farming was conducted as a part of 'Jaivam 2K17' whereby the CMS college NSS volunteers planted different types of organic vegetables like cauliflower, cabbage, radish, beetroot, cucumber, eggplant in three different plots. This was primarily aimed at freeing the community from the use of vegetables that contained pesticides. Registrar Sri M R Unni who inaugurated the first harvest appreciated the initiative taken by the NSS Unit of CMS College. |
| 5 | Campaign Against Substance Abuse | CMS College NSS unit together with the National Health Mission organised a campaign against substance abuse. This extension activity was conducted in order to sensitize the people about the detrimental impact of using drugs. Volunteers performed a flash mob in the college campus and in Nagampadam private bus stand. "THINK BEFORE YOU USE" was the message they tried to convey through the flashmob. Pamphlets were distributed to the crowd after the flash mob. Dr Dommy, District medical Office and Sri. Vinish National Health Mission were the resource persons. The Volunteer secretary took a small class on substance abuse and showed the volunteers a motivational video clip based on drug abuse. |
| 6 | Swachh Bharath Summer Internship Programme (SBSI) (Community outreach Programme) | The Swachh Bharath Summer Internship Programme started off with a two-day seminar on waste disposal management and environmental issues. The ten-day internship had surveys, campaigns, rallies and poster distribution all of which were aimed at emphasizing the role of youth in educating people about proper waste disposal methods. The inaugural meeting of the programme was conducted at CMS College on 21/5/2018. Principal Dr. Roy Sam Daniel presided over the meeting. The whole team was divided into several groups distributed over various panchayats of Kottayam. We conducted surveys and awareness campaigns over thirteen wards of the village. Sri Philip John from Suchitha Mission, Sri Ramesh from Harithakerala Mission and Sri Ashok Alex Luke from NSS Unit CMS College and Sri Johnson MM Swach Bharath Nodal Officer, CMS College were the resource persons of the programme. Our group campaigned regarding waste management by taking classes in Govt. L.P School Athirampuzha and poster distribution of the cartoons that we designed ourselves. |
| 7 | Blind Walk | A 'Blind Walk' was organized by the Darsana Cultural Centre in association with Baselious College, Kottayam on the 12 th of October 2017 at Thirunakkara Maidan, |

| Sl No | Name of the Activity | Details of the programme |
|-------|-------------------------------------|---|
| | | Kottayam. The event was organised in collaboration with Project Vision Bangalore and Darsana Cultural Academy. This extension activity was conducted whereby the volunteers get to know about the difficulties of people who are blind even if it for a few hours. The volunteers covered their eyes with a piece of cloth and marched nearly 1 km holding arms on each other's shoulder in order to get a touch of the experience of the real blind. Fr. Justin Mathew CMI was the primary resource person of the event. 50 volunteers of CMS College NSS Unit became a part of the programme. |
| 8 | International Yoga Day | International Yoga Day was celebrated by the NSS Unit of CMS College. This programme was organised by the NSS Unit of CMS College in collaboration with the Stephens College, Uzhavoor to emphasize on the importance of practising yoga to have a healthy mind and life. The classes were led by Prof Theresa Paul, former Associate Professor of Stephens College, Uzhavoor. She talked about the history of yoga, how it has evolved over a period of years and also taught the volunteers some yoga postures which would be very useful in their life. 53 NSS Volunteers attended the event. In addition to Prof Theresa Paul, Principal Roy Sam Daniel also spoke on the occasion. The event was conducted at Great Hall, CMS College where the volunteers practised yoga. |
| 9 | Visit to Govt UP School Thiruvarpur | The NSS Unit of CMS College visited the Govt. UP School, Thiruvarpur. The purpose of the visit was to celebrate Gandhi Jayanthi with the students of Govt. UP School, Thiruvarpur whereby both the volunteers and the students of the schools get an opportunity to praise the values of Mahatma. NSS Volunteers and Programme officers of CMS College were the resource persons of the programme. 15 NSS Volunteers took part in the event and taught the students about the Gandhian Values. Books on Mahatma Gandhi were distributed among the students. In addition to that, the volunteers made the students of the school play exciting games and gifted them with amazing prizes like books and other prizes. |
| 10 | Anti- Drug Rally | As a part of Gandhi Jayanthi celebration, an Anti-Drug rally was conducted with the Excise Department, Kottayam on the 2 nd of October 2017 on the occasion of Gandhi Jayanthi. This was an extension programme that aimed at sensitising the volunteers about their role in educating people about the harmful impacts of consuming drugs. The Rally was from the district collectorate to the Gandhi Square. The rally was inaugurated by the District Collector Dr B S Thirumeni IAS who called upon the youth to take up the responsibility of fulfilling the vision that Gandhiji had for India. The valedictory function was addressed by Sri Thiruvanchoor Radhakrishnan MLA. The rally focused on spreading awareness on the use against drugs. Dr B S Thirumeni IAS called upon the youth to take up the responsibility of fulfilling the vision that Gandhiji had for India. |
| 11 | Observing the Anti-Tobacco Day | The Anti-Tobacco Day was observed on 30/3/2018 by CMS College NSS Unit in association with Govt Hospital Kottayam. The event was conducted at E Learning Centre. 57 NSS Volunteers took part in the programme. Dr Swapna of Govt Hospital, Kottayam was the resource person. She communicated with the volunteers against the harmful effects of the usage of Tobacco. |
| 12 | WORLD ENVIRONMENT DAY | One of the biggest threats to modern life is Environment pollution. Realizing that it is our duty to make world retain its greenery. The NSS unit of CMS College celebrated World Environment Day. As a part of celebration, hundred volunteers were divided into different groups and they planted new tree saplings, plants and vegetable seeds. In addition to that, they cleaned the campus. They also prepared fertilizers to fill in some grow bags. The volunteers through their remarkable deeds were able to assert the significance of taking initiatives to keep the environment clean and green for a better tomorrow. |

| Sl No | Name of the Activity | Details of the programme |
|-------|---|--|
| 13 | BUTTERFLY GARDEN | The maintenance of the butterfly garden is an important work initiated by NSS volunteers of CMS college. Through such activities, the NSS volunteers emphasised the need to take care of the environment and the organisms residing in it in a proper way for the survival of all. This was a follow up activity of the NSS volunteers after they planted the medicinal and fruit plants in the college premises. They gave special care to the garden and visited the garden at least once in a month. |
| 14 | REPUBLIC DAY | The NSS unit of CMS College in collaboration with NCC celebrated the 69th Republic Day. CSI registrar and College vice principal hoisted the National flag. He also gave the republic day message. He stressed on the importance to preserve the national integrity and the need to fight against terrorism and also talked about the responsibility of volunteers and cadets in upholding peace and prosperity of the motherland. The NSS volunteers also took a national integration pledge. The celebration of such events of national significance plays a vital role in enhancing the spirit of patriotism and nationalism of the students and volunteers. |
| 15 | ORIENTATION PROGRAMME FOR 1 ST YEAR VOLUNTEERS | CMS College NSS unit conducted an Orientation Programme for the newly enrolled volunteers. College Principal Dr. Roy Sam Daniel inaugurated the programme. Resource persons of the programme enlightened the volunteers with the aims and objectives of National Service Scheme to make them realise their roles and responsibilities as an NSS volunteer. Volunteer secretary Mahesh Krishna gave a motivational speech and the senior volunteers shared their experiences. Their experiences inspired and motivated the new volunteers. The senior volunteers also gave information about NSS rules and regulation and the criteria for the selection and how they should indulge in every single NSS activity. The programme aimed at making the volunteers eligible for the upcoming programmes. |
| 16 | PRE-RD SELECTION CAMP AT BK COLLEGE, AMALAGIRI | There was a selection camp held at Amalagiri College for NSS volunteers to prove their own abilities. After few selection processes several volunteers were selected for different camps like pre-rd camp, National Integration camp etc. Volunteer secretary Mahesh Krishna was selected for the National Integration camp which was going to be held at Shivamoga, Karnataka. The camp was a fruitful one as the volunteers got an opportunity to express their skills and talents. |
| 17 | NATIONAL INTEGRATION CAMP (SHIVAMOGA, KARNATAKA) | A ten -member team was selected for the seven days National Integration camp which was held at the Kuvempu University, Shivamoga, Karnataka. Volunteer secretary of CMS college NSS unit was the contingent leader. Around 150 volunteers from different universities and states attended the camp and shared their culture and values and performed various arts forms. Numerous awards were given during the valedictory session and the Kerala team won the award for best procession which was led by Mahesh. The camp gave the volunteers a chance to mingle with people from different cultural and regional backgrounds. |
| 18 | EYE DONATION | The NSS unit of CMS College in association with Darsana Cultural Academy organised an Eye Donation campaign. The campaign was inaugurated by Fatima Anshi and Rev. Fr. George Kanamthanam, director of project vision. On that day itself, around thousand students and staffs of CMS College volunteered to donate their eyes posthumously. The day was really enlightening and a different experience for the volunteers. The campaign was really effective and the humanitarian values of the volunteers were greatly heightened. The programme aimed at helping those who are in need especially the people with eye impairments. |

| Sl No | Name of the Activity | Details of the programme |
|-------|---|---|
| 19 | CHRISTMAS CELEBRATION AT GOVT UP SCHOOL (THIRUVARPU) | The NSS Unit of CMS College celebrated Christmas along with the students of Govt. UP School, Thiruvapur. The volunteers gifted the children with books collected from 110 NSS volunteers of the college. These books were distributed with the aim of commencing a small library for the UP-school students. The celebration of Christmas with the students was really enlightening for the volunteers as they learned about the relevance of celebrating events with others and share the joy together through giving. The distribution of books was to develop a reading habit in students from childhood itself. |
| 20 | ORGANIC STALL AT INTERNATIONAL GLOBAL MEET | The CMS College NSS unit was given a golden opportunity to present their organic stall at global meet which is a unique academic carnival where serious academic deliberations, exhibitions and cultural pageantry co-exist to demonstrate the significance and diversity of the organic concept in agriculture. MG University Vice-Chancellor Dr Babu Sebastian and Kottayam Municipal chairperson Dr P.R Sona inaugurated the exhibition and visited the stalls thereafter and gave remarks. The volunteers presented numerous varieties of organic vegetables and grow bags and more than 2500 people visited the stall. Through this, the volunteers got an opportunity to embrace agriculture. |
| 21 | SPECIAL CAMP (JAIVAM 2017-18) | MG University took a great initiative to change the lifestyle of the people of Kottayam by introducing a project named Jiavam 2K17. The main motive behind the launching of such a project was to make people aware of organic farming and its importance in today's life. In connection with this project, more than 10,000 NSS volunteers from various colleges visited thousands of houses in different panchayats and municipalities. CMS college NSS unit was assigned with Thiruvapur panchayath, Kottayam and the volunteers got numerous experiences as they met different types of people to spread awareness on organic farming. Throughout the seven days, the volunteers conducted survey, cleaned the premises of the campsite and celebrated Onam together. The camp gave the volunteers an entirely different yet remarkable experience. |
| 22 | Nyk (Nehru Yuva Kendra) At Ettumanoor (District Level) | Nehru Yuva Kendra conducted a district level camp for NSS volunteers and youth club members. The camp was comprised of Motivational classes and activities for the volunteers. It was a very effective camp for the volunteers. |
| 23 | Nyk (Nehru Yuva Kendra) State Camp At Kakkanad, Kochi (State Level) | Out of the NSS volunteers participated in the district camp, a few were selected for the state level camp. The state level camp was a national integration camp along with the people of Himachal Pradesh. |

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 | Programme | Company |
|--------|---------------------------|--|--|
| 1 | Abina Mariam Mathew | M.A English | St. Sebastian's Public School and Junior College |
| 2 | Aisha R | B.Sc Physics Model I | SBI Life Insurance |
| 3 | Aiswarya P A | B.Sc Physics Model I | Department of Posts |
| 4 | Albin Varghese | B.Sc Zoology Model I | Pixelogik |
| 5 | ALEENA ELSA MANI | M.Sc. Zoology | CMS College |
| 6 | Aneha Hepzibah Soloman | M.A English | BCM College |
| 7 | Angelina Elizabeth Oommen | M.A English | Govt. Polytechnic College |
| 8 | Anjali S Lal | M.Com | KPMG Global Delivery Centre |
| 9 | Anna George Thayil | M.Sc. Physics | SPI Global |
| 10 | Annu Meera Sabu | M.A English | CMS School |
| 11 | Anu Santhosh | B.Com Model I Finance & Taxation(Aided) | EY Global Delivery Service |
| 12 | Aqulin Anna Shajan | M.A. Malayalam | Don Bosco Higher Secondary School |
| 13 | Arathy A | M.Sc. Mathematics | ESAF |
| 14 | Arya Balu | M.Sc. Applied Physics | South Indian Bank |
| 15 | Athira Jayan | B.Sc Mathematics Model I | South Indian Bank |
| 16 | Athira TM | B.Com Model I Finance & Taxation (Aided) | EY Global Delivery Service |
| 17 | Beena Babu | M.A English | St. Joseph Public School |
| 18 | Ben Joshy Itticheria | B.Com Model I Finance & Taxation(Aided) | Malayala Manorama |
| 19 | Binny Lukose | B.A History Model I | St. Joanna's UPS Uzhavoor |
| 20 | Blesson T Sunny | M.Sc. Applied Physics | SPI Global |
| 21 | Devika Aji | B.Com Model I Finance & Taxation(Self Financing) | HCL Technologies |
| 22 | Farhin R | B.Com Model I Finance & Taxation(Self Financing) | Goodwill Comtrades Pvt Ltd |
| 23 | Feba Liya Hannan | M.Sc. Zoology | Malayala Manorama |
| 24 | Francis Thobiyas | B.Sc Physics Model I | Sonele Inc. |
| 25 | Gayathri Sreekumar | M.Sc. Zoology | BRILLIANT STUDY CENTRE PALA |
| 26 | Gokul G Das | M.A. Sociology | AVG Motors Ltd |
| 27 | Gokul P G | B.Com Model I Finance & Taxation(Aided) | Tata AIG General Insurance Company |
| 28 | Gopika Sathyan | B.Sc Family & Community Science Model I | Metro Hospitality Services |
| 29 | Greeshma M Thomas | M.Sc. Zoology | KPSC DISTRICT OFFICE |
| 30 | Haleel Rahman | M.A. Malayalam | Holy Angels College |
| 31 | Hannah Laiju | B.Sc Physics Model I | L3HARRIS |
| 32 | Haritha Prasad | M.Sc. Zoology | Tropical Institute of Ecological Sciences |
| 33 | Hrishisha M | M.Sc. Home Science Branch X(E) Dietetics and Food Service Management | Believers Church Hospital |

| Sl. No | Name | Programme | Company |
|--------|-------------------------|--|---|
| 34 | J Sreelakshmi | B.Com Model I Finance & Taxation(Self Financing) | Sree Mahadeva College of Arts and Science |
| 35 | Jeril James Chacko | B.A History Model I | Innov Services Pvt Ltd |
| 36 | Jithu Paulson | M.A. Sociology | Dev Insights |
| 37 | Joel Sunny | B.Com Model I Finance & Taxation(Marketing) | Zee India Logistics |
| 38 | Joseph Nirmal Andrews | M.A. Sociology | Good Shepherd International School |
| 39 | Jyoti T M | B.Com Model I Finance & Taxation(Self Financing) | IBM |
| 40 | Krishnapriya V | M.Sc. Physics | St. Stephens College Uzhavoor |
| 41 | Lijin Ann Joseph | M.Sc. Home Science Branch X(E)Dietetics and Food Service Management | Centre for Chronic Disease Control |
| 42 | Manju G nair | M.A. Sociology | South Indian Bank |
| 43 | Mukesh Velkumar | B.Com Model I Finance & Taxation(Self Financing) | EY |
| 44 | Nova Susan Issac | B.A English Literature ,Communication and Journalism Model III (Triple Main)(Self Financing) | Shining Light Pre School Trust Board |
| 45 | Praseetha K | M.Sc. Biotechnology(Self Financing) | DDRC |
| 46 | Prathyusha Peter | M.A. Sociology | Mother Mary School |
| 47 | Rajlekshmi S | M.Com | South Indian Bank |
| 48 | Ronin Vattamala | B.Com Model I Finance & Taxation(Self Financing) | SALVE MARIA INTERNATIONAL |
| 49 | Sarath Hari | B.Com Model I Finance & Taxation(Self Financing) | South Indian Bank |
| 50 | Shalabha Rachel Abraham | M.A English | GIAL |
| 51 | Shebina P S | B.A English Literature ,Communication and Journalism Model III (Triple Main)(Self Financing) | Gateway Insurance Company |
| 52 | Sreelatha V Nair | M.Sc. Home Science Branch X(E)Dietetics and Food Service Management | Nutrition and Parenting Clinic ICDS |
| 53 | Sreya P Kumar | M.Sc. Mathematics | Federal Bank |
| 54 | Susan T James | M.Sc. Zoology | KPSC DISTRICT OFFICE |
| 55 | Teena S Thampi | M.A. Malayalam | St. Thresias LP School, Kaipuzha |
| 56 | Thomas Jose | B.Com Model I Finance & Taxation(Aided) | South Indian Bank |
| 57 | Thomaskutty T J | M.A. Sociology | Marian Medical Centre |
| 58 | Tibin Tom | B.A Economics Model I | Merck Specialities Pvt Ltd |
| 59 | Tiffy Mariam John | M.Sc. Zoology | BCM College |
| 60 | Tiju P R | B.A History Model I | Learners Book House |
| 61 | Treesa Jose | B.Com Model I Finance & Taxation(Self Financing) | REFINITIV India Shared Services Pvt Ltd |