



MARIAN COLLEGE
KUTTIKANAM
(AUTONOMOUS)

MAKING COMPLETE

ANNUAL REPORT OF IQAC

2017-18



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Introduction

Marian IQAC was constituted in 2004 in line with the directives of NAAC. Since quality enhancement is a continuous process, the IQAC is a part of Marian's system and works towards the realization of the goals of quality enhancement and sustenance. The prime task of Marian IQAC is to develop a system for conscious, consistent and catalytic improvement in the overall performance of Marian. In the academic year of 2017-18 too, the IQAC has made a meaningful contribution in the post-accreditation phase of Marian.

Composition of IQAC

The IQAC Core team of the year 2017-18 consists of Dr. Roy Abraham P, the Chairperson, Dr. Binu Thomas, the Coordinator and the faculty members Fr. Shaiju KS, Dr. Thomas KV, Mr. Ajesh P Joseph, Dr. Joshy John, Dr. Razi A, Mr. Joby Cyriac, Dr. Sabu Augustine, Dr. Sr. Flower, Ms. Reny Jose and Ms. Suzanna Oommen. Rev. Fr. Ruban J Thannickal and Dr. Jose James are the management representatives and the administrative staff includes Mr. Sunny Thomas, Mr. John Joseph, and Mr. Jobin Jose. The student representatives are Mr. Abhilash PJ of MMH and Ms. Sruthy Sathyanath of MCMS, whereas the alumni representatives are Mr. Febin Dominic and Mr. Anumod Alex Thomas. From employers, external experts and community representatives the respective nominees are Rev. Fr. Hubby Mathew, Mr. Rony K Baby and Ms. Beena Thomas.

Summary of Activities of the Academic Year 2017-18

The academic year 2017-18 was a happening year for IQAC with the introduction of many new initiatives including the Post Graduate Program in Communication and Media Studies, MCMS. New batches were added to the BCom and MCom program. In view of participating in the NIRF ranking, a team was formed and training was given to the teachers and administrative staff. As a result, we applied for NIRF ranking and obtained the 84th rank in the category of colleges. A training program was conducted for teachers on the revised NAAC accreditation and our Moodle in use was customized for data collection in the new NAAC framework. This customized Moodle was presented in the HK-BU conference on ICT-enabled teaching held at Hong Kong, and a project was obtained from HK-BU for AR Learning and Gamified Learning.

The Department of Value Education designed a program, "JOY OF SHARING" and a total of 11 Resurgence Education programs were held on Wednesdays during the Value Education Hour. All the departments revisited the syllabus to improve the employability of courses and ethical and environmental aspects were added to the curriculum. A training program was arranged to familiarize Program Objectives (POs), Program Specific Outcomes (PSOs) and Course Outcomes (COs). POs for the college, PSOs for specific programs and COs for individual courses were devised and introduced into the curriculum. COs were later mapped to Program Outcomes and Program Specific Outcomes. Moreover, a software was developed to measure COs and attain CO-PO, CO-PSO mapping. The IQAC coordinator attended a workshop on Annual Academic Audit (AAA) and conducted AAA in the college.

As usual induction programs were conducted for new faculty members at the start of the academic year. An interview and skill orientation program, a PSC registration and training

camp, a jewelry-making workshop, several national seminars, awareness classes and surveys were conducted. Moreover, the teachers and students attended various training programs during this period. The IPR Cell was formed and the college saw the formation of 12 start-ups in this academic year. 6 different scholarships were also constituted to support our students. The campus was visited by 18 companies this year.

In terms of infrastructure augmentation, 3 more floors were added to the new academic block, and walkways were constructed around the campus for all. The examination cell was excellently furnished and secured and the college library got a sophisticated face-lifting.

IQAC Meetings

The smooth and efficient functioning of IQAC in the college was ensured by the steering committee meetings held regularly. 5 meetings were convened during this academic year on 12th June 2017, 7th August 2017, 18th September 2017, 4th December 2017 and 20th February 2018. All the quality initiatives introduced in the college are a result of the discussions held in these steering committee meetings.

Training and Faculty Development Programmes Organized by the College

Serial No.	Dates (from-to) (DD-MM-YYYY)	Title of the professional development/ administrative training programs organized for teaching staff (Professional development/ administrative training programs)	No. of participants
1.	13/6/ 2016	Workshop and Review on Course plans	11
2.	22/6/2016	Training on Curriculum Development	17
3.	30/6/2016	Workshop on Curriculum Development	57
4.	12/7/2016	Workshop on Blooms Taxonomy	23
5.	28/07/2016	Faculty Workshop on Need Identification for Curriculum Development	34
6.	3/08/2016 & 4/08/2016	Faculty Workshop on Moodle LMS Creation	28
7.	20/09/2016	Workshop on Preparing Graduate Attribute Linked Course Plans	53
8.	23/11/2016	Faculty Training on free and Open Software	17
9.	16/12/2016	Faculty Workshop on ICT Tools for Continuous Assessments	57
10.	11/01/2017	Workshop on Research Funding Opportunities	24
11.	15/01/2017	Workshop on Data Analytics	10
12.	21/01/2017	Workshop on IT integration in examination	12



Faculty Workshop on ICT Tools for Continuous Assessments

Seminars/Conferences/Workshops Attended by Teachers with Financial Support from College

Year	Name of Teacher	Name of conference/ workshop attended for which financial support provided	Amount of Support
2017-2018	Sunu Rose Joseph	Additional skill acquisition program (Workshop)	1000
2017-2018	Allen George	Sexual Orientation and Gender Equality, Exploring diversities of queer space (Workshop)	1000
2017-2018	Siju P T	Orientation program, UGC-HRD center , University of Kerala (Workshop)	1000
2017-2018	Jobin Jose	National Conference on Librarianship , Information, Management	1000
2017-2018	Kochumol Abraham	Workshop on analytics and machine learning	2550
2017-2018	Win Mathew John	Workshop on analytics and machine learning	2950
2017-2018	Satheesh Kumar S	Android Application Development (Workshop)	1000
2017-2018	Claris Annie John	Sexual Orientation and Gender Equality, Exploring diversities of queer space (Workshop)	1000
2017-2018	Pauline Joseph	National Conference on Dimensions of sustainable Economic and Buisness Development	1000
2017-2018	Dr. Brijesh George John	International Conference on transformation of economy through digitalisation management perspectives	1500
2017-2018	Simi John	Transforming the world toward sustainable tomorrow: Concern and Challenges (Workshop)	1000
2017-2018	Princy Sebastian	Contemporary Social work education in Kerala Retails and Challenges (Workshop)	1000
2017-2018	Sr. Italia Joseph Maria	Seven days training program on big data and data analytics (Workshop)	1000
2017-2018	Reny Jose	National Conference on Dimensions of sustainable Economic and Business Development	1300
2017-2018	Sijo Thomas	Machine learning with business applications (Workshop)	1000

Training Programs of more than 5 Days Attended by Faculty Members

Name of teacher who attended the program	Title of the program	Duration (from – to)
Siju P T	Orientation Programme -UGC Human Development Centre	02-11-2017 – 27-11-2017
Robins A Kattoor	Designing and Developing Appropriate Technology for Rural Development	11-12-2017 - 15-12-2017
Sr. Italia Joseph Maria	Seven Days Training Programme on Big Data And Data Analytics	05-03-2018 – 11-03-2018
Shaiju K S	Four Week Refresher Course on Sociology	31-07-2017 - 25-08-2017
Sunu Rose Joseph	One Month Residential Induction Training Programme	28-11-2017 - 20-12-2017
Sijo Thomas	Faculty Development Programme on Machine Learning With Business Application	21-05-2018 - 25-05-2018
Sajan N Thomas	UGC Sponsored Special Winter School Programme	30-11-2017 - 20-12-2017
Juby George	UGC Sponsored Refresher Course in Computer Science	07-02-2018 - 27-02-2018
Benymoljose	UGC Sponsored Refresher Course in Computer Science	07-02-2018 - 27-02-2018

Academic Council Meetings

The Academic Council of the college reviews the curricula and approves the proposals from the Boards of Studies with or without modifications. 2 Academic Council meetings were conducted during the academic year 2017-18. These meetings were convened on 29th August 2017 and 28th February 2018.

Curriculum Revision

The number of programs having a focus on employability during the academic year 2017-18 is 247. The number of value-added courses offered during the academic year 2017-18 is 25.

Sl. No.	Name of the Course	Course Code	Duration	Students enrolled	Students completed
1	Universal Personality Development Programme	ECO01	30 HOURS	92	92
2	Value Added Course in Creativity	17PMCV001	36 HOURS	97	97
3	Value Added Course in Functional Specification Document Preparation 1	17PMCV002	30 HOURS	97	97
4	Career Enhancement and Placement Training	17PMCV003	40 HOURS	87	87

5	Value Added Course in Logic Building	17PMCV004	45 HOURS	97	97
6	Value Added Course in Redhat Linux	17PMCV006	40 HOURS	87	87
7	Teaching Internship (Value Added Programme)	PMMTI2017	40 HOURS	18	18
8	Intensive Aptitude Development Programme	PMMNSC2017	95 HOURS	116	116
9	Pre-examination coaching program	PMVAC1702	100 HOURS	30	30
10	Techniques of Data Analysis	PMVAC1703	40 HOURS	53	53
11	Value Added Course in Direct Taxation	DT012017	50 HOURS	30	30
12	Value Added course in Indirect Taxation	ITGST012017	50 HOURS	30	30
13	Hotel Operations (PGDHO) - Value Added Diploma Course	NIL	384 HOURS	23	23
14	MS Excel for Hospitality Professionals	NIL	30 HOURS	23	23
15	Value Added Programme in Fundamentals of Accounting	UCNBMV1708	40 HOURS	25	25
16	Value Added Programme in General Economics	UCNBMV1709	40 HOURS	25	25
17	Value Added Programme in Mercantile Law	UCNBMV1710	40 HOURS	25	25
18	Value Added Programme in Quantitative Aptitude	UCNBMV1711	40 HOURS	25	25
19	Value Added Programme in Accounting	UCNBMV1712	80 HOURS	3	3
20	Value Added Programme in Business Laws Ethics and Communication	UCNBMV1713	80 HOURS	3	3
21	Value Added Programme in Cost Accounting and Financial Management	UCNBMV1714	80 HOURS	3	3
22	Value Added Programme in Income Tax	UCNBMV1715	50 HOURS	3	3
23	Value Added Programme in Indirect Tax	UCNBMV1716	30 HOURS	3	3
24	Transactional Analysis	VAC1705	30 HOURS	40	40
25	SPSS - Value Added Course Training	VAC1706	30 HOURS	45	45

Feedback on Curriculum

Structured feedback for design and review of the syllabus – semester-wise / year-wise is received from Students, Teachers, Employers and Alumni. The statistics of the feedback collected is as follows:

Stakeholder	No. of Feedback Received
Students	298
Alumni	91
Teachers	77
Industry	30

Student Enrolment and Profile

The number of students admitted during this academic year is 665 against the number of 723 seats sanctioned. The ratio of students to full-time teachers is 21:1.

Teaching-Learning Tools and Methods

The ICT tools used during this academic year are Moodle, Roven Software, Smart-E and several Massive Online Open Courses (MOOCs). To provide a Stimulating Student Centric ICT-enabled learning environment focussing on experiential and problem solving several tools were used. Experiential learning was practiced by encouraging students to organise, host and participate in department fests, festivals, days of national and international significance, various clubs' activities, and inter and intra-collegiate competitions. Outreach programs and value education sessions were conducted in all the classes for experiential assimilation of universal values.

Student-centric methods, such as experiential learning, participative learning, and problem-solving methodologies are used for enhancing learning experiences. Field practicum, farm planning, field trips, surveys, and research projects are integrated into the curriculum. Discipline-specific Workshops, Certificate Courses and personal and professional training programs. Experiential learning by organizing, hosting and participating: Department fests, festivals, days of national and international significance, various clubs' activities, inter and intra-collegiate competitions. Discipline-specific experience gaining activities like filing Income Tax Returns, obtaining information under RTI Act, video production, online coding, teaching juniors, and itinerary development.

Part-time jobs and start-up initiatives enable the students to 'earn-while-they-learn'. Skill-based courses offered by departments - Entrepreneurial Skill Development program, Technical Competencies for Executives. Active participation in conferences, conclaves, seminars and presenting papers on and off the campus. Online and offline interactive classroom activities facilitate vibrant learning through debates, group discussions, public speaking, role-plays, media reporting, quizzes, seminar presentations, video presentations, collage making, chart displays, displaying exhibits, 'walk-and-talk' program, advertising, and digital marketing. Outreach programs and value education sessions for experiential assimilation of universal values.

Teacher Profile and Quality

The number of full-time teachers in this academic year is 75 against the sanctioned 75 posts. The Number of teachers with Ph.D. is 29, and the mentoring ratio maintained this year is 21:1.

Evaluation Process

The number of days from the date of last semester-end/ year-end examination till the declaration of results year-wise during this year is 18.08. The number of examinations conducted this year is 50 and the total number of students who appeared for the same is 1224. The number of complaints filed was 80.

Research Promotion and Initiatives

The College has given utmost importance to research, innovation and extension activities. Over the years Marian has made significant improvements in research, consultancy and extension. The college had a teacher with a research project, and we had 18 journal publications and 9 book/book chapters in book. The college received 0.18 lakhs as research seed money and the amount of grant received from Government/NGOs amounted to 6.446 lakhs and one of our teachers received teacher award.

Collaborations and MoUs

During the academic year 2017-18, the college signed 4 MoUs and had 14 collaborative activities. The MoUs signed were with For A Good Start, Synergy Thoughts, IROID Technologies and with Academy Of Prisons and Correctional Administration (APCA).

IPR Workshops

6 IPR workshops were conducted during the academic year 2017-18.

Sl. No.	Name of the Workshop/ Seminar	Number of Participants	Date From – To
1	Seminar on Communication Skill (Skill Development)	100	12-06-2017
2	Research Workshop (Research Methodology)	55	04-03-2018
3	Seminar on Network and Cloud Computing (Skill Development)	98	23-02-2018
4	Seminar on Social Science Research (Skill Development)	20	20/12/2017 to 21/12/2017
5	Workshop on Android (Skill Development)	70	16/06/2017 to 17/06/2017
6	Workshop on Mobile Computing (Skill Development)	30	11/12/2017 to 16/12/2017



Workshop on Research Methodology

Extension Activities

During the academic year 2017-18 we had 129 extension programs and received 9 awards of recognition.



Research Publications

Name of the Author/s	Title of Paper	Department of the Teacher	Name of Journal
Chackochan J Njavallil	Life, Living and the struggles in Plakkathadam, A Disconnected Tribal Colony in Idukki – A Case Study	Commerce	International Research Journal of Social Sciences
George, Ajimon	Precautions for Safe Use of Internet Banking: Scale Development and Validation	Commerce	IIM Kozhikode Society & Management Review
Abraham, Kochumol and John, Win Mathew	Review on Work Family Conflict of Women Employees in IT Industries	Computer Application	International Journal of Innovative Research in Computer and Communication Engineering
Jobi Babu	An Analysis on the Factors Contributing to the Sexuality Awareness among Adolescent Boys	Social Work	Educere, BCM Journal of Social Work
Jobi Babu	Reproductive Health of Aboriginal Women in India: A Study on Life Cycle Approach	Social Work	Journal of Social Work Education and Practice
Jobi Babu	Family Environment And Achievements Of Adolescents: A Study With Special Reference To Chittar Grama Panchayat	Social Work	Global Journal of Multidisciplinary Studies
Jobi Babu	Disparity of Health Care Services among Tribal Communities in Wayanad District, Kerala	Social Work	International Journal of Human Resources & Social Sciences
Lijin George	Molecular doping of graphene across ultra-thin molybdenum disulphide spacers	Physics	Physica Status Solidi (B)
Lijin George	Structure-property correlations of carbon and nitrogen incorporated NiFe ₂ O ₄	Physics	IEEE Transactions on Magnetics
Midhun H	One-Dimensional Assembly of Conductive and Capacitive Metal Oxide Electrodes for High-Performance Asymmetric Supercapacitors	Physics	ACS Appl. Mater. Interfaces
Midhun H	Continuous nanobelts of nickelcobalt oxide hybrid with improved capacitive charge storage properties	Physics	Materials & design

Midhun H	Pseudocapacitive Charge Storage in Single-Step Synthesized CoOMnO ₂ -MnCo ₂ O ₄ Hybrid Nanowires in Aqueous Alkaline Electrolytes	Physics	The Journal of Physical Chemistry C
Midhun H	Large scale synthesis of binary composite nanowires in the Mn ₂ O ₃ -SnO ₂ system with improved charge storage capabilities	Physics	Chemical Engineering Journal
Midhun H	Critical influence of reduced graphene oxide mediated binding of M (M = Mg, Mn) with Co ions, chemical stability and charge storability of spinel type hierarchical MCo ₂ O ₄ nanostructures	Physics	Electrochimica Acta
Midhun H	Improving the symmetry of asymmetric supercapacitors using battery-type positive electrodes and activated carbon negative electrodes by mass and charge balance	Physics	Journal of Electroanalytical Chemistry
Midhun H	Effect of processing parameters on the charge storage properties of MgCo ₂ O ₄ electrodes	Physics	Ceramics International
Sunny Mathew	Studies on Photoresponse and LPG sensitivity of transparent Al doped ZnO thin films prepared by thermal evaporation technique	Physics	Materials Research Bulletin
Aneesh Mathew	Snap-top nanocontainer for selective recovery of nickel ions from seawater	Chemistry	Microporous and Mesoporous Materials

Student Support Provided

During the academic year 2017-18, the number of students benefited by scholarships and free-ships provided by the Government are 449 and the total amount sanctioned is Rs. 53,97,069 whereas the number of students benefitted by institutional scholarship are 364 and the amount dispersed is Rs. 34,28,893.

Student Progression Report

The number of students benefitted by guidance for competitive examinations and career counselling offered by the institution during this year are 1418, and 172 outgoing students got placements and 8 students got qualified in state/ national/ international level examinations. 29 awards/medals were won by students for outstanding performance in sports / cultural activities at inter-university / state / national / international events and 20 sports and cultural events / competitions were organised by the institution during this academic year.

Alumni Engagement

Marian Alumni Association contributes significantly to the development of the college through financial and other support services. This year we received Rs. 1,25,000 as alumni contribution.

Infrastructure Augmentation

One of the highlights of the college is its excellent infrastructure facilities. During the academic year 2017-18, 41 new computers were purchased and added to the computer lab, and the internet bandwidth available was 325Mbps. There are 49 classrooms and the expenditure spent for augmenting the infrastructure amounts to Rs. 2,57,89,702.00. The expenditure for maintaining physical facilities amounts to Rs. 58,33,868.00 and for academic facilities, it sums upto Rs 31,13,901.00. Rs. 5,44,897.00 was spent during this academic year on the purchase of books/e-books.

Activities Under Innovations and Best Practices

The tie-up with the Kerala Women Development Corporation was an important milestone of this academic year. The Women cell organized a national seminar on 'Defining Today's Woman: Towards a New Paradigm'. The Entrepreneurship Development cell of the college started providing entrepreneurship awareness among the student communities. The cell has been organizing various entrepreneurial promotional programs to transform students into entrepreneurs once they complete their graduation. As part of improving energy efficiency, Marian has shifted to the use of LED bulbs. The college developed appropriate environmental assessment, implementation and monitoring activities related to different waste collection methodologies to improve current waste management practices. A large amount of electronic waste such as damaged and unusable monitors, CPU, printers and other peripherals were collected and sold to vendors. A well-furnished Day Care centre to accommodate 10 children is made available this year. The signboards displaying the parking spot reserved for differently-abled persons is implemented and pedestrian-friendly pathways with roofs are laid inside the campus. An awareness program on 'Code of Conduct' was conducted for students and faculty was another program that was organized.

Conclusion

IQAC is committed to ensure quality in all the initiatives taken up by the college. It acts as a quality sustenance measure and acted as the driving force for the conscious, consistent and catalytic improvement in the overall performance of Marian. This goal was reflected in all the activities performed during this academic year. IQAC is happy to be instrumental in the various quality initiatives that happened this year.