



AQAR 2017-18

Submitted to

NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL

BANGALURU

By

INTERNAL QUALITY ASSURANCE CELL

(IQAC)



**Mar Athanasios College For Advanced Studies Tiruvalla
(MACFAST)**

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MAR ATHANASIOS COLLEGE FOR ADVANCED STUDIES TIRUVALLA
(MACFAST)**The Annual Quality Assurance Report (AQAR) of the IQAC****(2017-18)****PART A****I. Details of the Institution:**

1.1	Name of the Institution:	MAR ATHANASIOS COLLEGE FOR ADVANCED STUDIES TIRUVALLA (MACFAST)
1.2	Address Line 1:	MAR ATHANASIOS COLLEGE FOR ADVANCED STUDIES TIRUVALLA (MACFAST)
	Address Line 2:	THOLASSERRY
	City/Town	TIRUVALLA
	State	KERALA
	Pin Code	689101
	Institution e-mail address	www.macfast.org
	Contact Nos.	0469-2730300
	Name of the Head of the Institution:	Fr.Dr.Cherian J Kottayil Principal cum Director
	Tel. No. with STD Code:	0469-2730300
	Mobile:	9605536290
	Name of the IQAC Co-ordinator:	DR. K. R. SUKUMARAN NAIR
	Mobile:	9446100457
	IQAC e-mail address:	iqacmacfast@macfast.org
1.3	NAAC Track ID	KLCOGN 20699
1.4	NAAC Executive Committee No. & Date: <i>(For example EC/32/A&A/143 dated 3-5-2004. This EC no. is available in the right corner</i>	EC (SC) 16/A&A /17.1

	<i>bottom of your institution's Accreditation Certificate)</i>						
1.5	Website Address:		www.macfast.org				
	Web link to the IQAC		http://macfast.org/technitrous07/cpanel/browser/AQAR2017-18.pdf				
1.6	Accreditation Details						
	Sl.No	Cycle	Grade	CGPA	Year of Accreditation	Validity Period	
	1	1 st Cycle	A	3.08	2016	July 10,2021	
	2	2 nd Cycle					
	3	3 rd Cycle					
	4	4 th Cycle					
1.7	Date of Establishment of IQAC			04/08/2014			
1.8	AQAR for the year (for example 2010-11)			2017-2018			
1.9	Details of the previous year's AQAR submitted to NAAC after the latest Assessment and Accreditation by NAAC (<i>for example AQAR 2010-11 submitted to NAAC on 12-10-2011</i>)						
	i	AQAR	2016-2017			06/07/2017	
	ii	AQAR	2017-2018			24/10/2018	
	iii	AQAR					
	iv	AQAR					
1.10	Institutional Status						
	University	State	<input checked="" type="checkbox"/>	Central	<input type="checkbox"/>	Deemed	<input type="checkbox"/>
	Affiliated College		Yes		<input checked="" type="checkbox"/>	No	
	Constituent College		Yes		<input type="checkbox"/>	No	
	Autonomous College of UGC		Yes		<input type="checkbox"/>	No	
	Regulatory Agency approved Institution			Yes		<input checked="" type="checkbox"/>	No
	Type of Institution		Co-education		<input checked="" type="checkbox"/>	Men	Women
			Urban		<input type="checkbox"/>	Rural	<input checked="" type="checkbox"/>
					<input type="checkbox"/>	Tribal	<input type="checkbox"/>
	Financial Status		Grant-in-aid		UGU 2(f)	UGC 12B	
			Grant-in-aid + Self Financing			Totally Self-financing	
						<input checked="" type="checkbox"/>	
1.11	Type of Faculty/Programme:						

	Arts		Science	✓	Commerce		Law		PEI(Phys Edu)		
	TEI(Edu)	✓	Engineering		Health Science		Management			✓	
	Others(Specify)										
1.12	Name of the Affiliating University (for the college)				Mahatma Gandhi University,Kottayam						
1.13	Special status conferred by Central/ State Government UGC/CSIR/DST/DBT/ICMR:				NA						
	Autonomy by State/Central Govt./ University				NA						
	University with Potential for Excellence				NA	UGC-CPE			NA		
	DST Star Scheme				NA	UGC-CPE			NA		
	UGU-Special Assistance Programme				NA	DST-FIST			NA		
	UGC-COP Programmes				NA	Any other(Specify)			NA		
<u>2.IQAC Composition and Activities</u>											
2.1	No.of Teachers						8				
2.2	No.of Administrative/Technical staff						4				
2.3	No.of Students						3				
2.4	No.of Management representatives						2				
2.5	No.of Alumni						2				
2.6	No.of any other stakeholder and community representative						2				
2.7	No.of Employers/Industrialists						2				
2.8	No.of other External Experts						1				
2.9	Total No.of Members						26				
2.10	No.of IQAC meetings held						4				
2.11	No.of meetings with various stakeholders						19				
	Faculty	5	Non-Teaching Staff	4	Students	6	Alumni	2	Others	2	
2.12	Has IQAC received any funding from UGC during the year?						Yes		No	✓	
	If yes,mention amount										
2.13	Seminars and Conferences(only quality related)										
	(i)No.of Seminars/Conferences/Workshops/Symposia organized by the IQAC										
	Total Nos.	3	International	1	National		State		Institutional Level		

	(ii)Themes	Digital Transformations in India.			
2.14	Significant Activities and contributions made by IQAC				
	<ol style="list-style-type: none"> 1. Periodical review of the progress of the academic activity of the departments in accordance with the academic calendar. 2. Deputing faculty members to relevant Faculty Development Programs (FDP). 3. Monitoring the department wise evaluation of teaching learning practices. 4. Review of department wise analysis of results of university exams in comparison with previous year's. 5. Determination of parameters for teacher evaluation and its periodic review. 				
2.15	Plan of Action by IQAC/Outcome.				
	<ol style="list-style-type: none"> 1. Identifying the priority areas for the research. 2. Evaluating the process of curriculum design. 3. Evaluating the curriculum delivery system and promotion of simulation as tool for effective teaching and learning. 4. Up gradation and expansion of existing ERP system and developing sustainable model for effective governance. 5. Identify the appropriate theme as the best practice. 6. New endeavours in the placement sector by actively involving Corporate institutions. 				
2.16	Whether the AQAR was placed in statutory body?		Yes	✓	No
	Management	✓	Syndicate		Any other body
	Provide details of action taken:				

PART – B
Criterion – I

I. Curricular Aspects

1.1 Details about Academic Programmes

Level of the Programme	Number of existing Programmes	Number of programmes added during the year	Number of self-financing programmes	Number of value added / Career Oriented programmes
Ph .D	-	-	-	-
PG	9	Nil	9	-
UG	-	-	-	-
PG Diploma	-	-	-	-
Advanced Diploma	-	-	-	-
Diploma	-	-	-	-
Certificate	-	-	-	-
Others	-	-	-	-
Total	9	-	9	-
Interdisciplinary	6	-	-	-
Innovative	-	-	-	-

1.2 (i) Flexibility of the Curriculum: CBCS/Core/Elective option / Open Options

The college has limited flexibility as the curriculum is designed by the university

+ Choice Based Credit System

Credit and Semester System is adopted by the college for the M.Sc. programmes as per the guidelines of the University. The University has not introduced CBCSS for the MBA and MCA programmes offered in the college.

+ Core /Elective options / Open options

The Core /Elective options / Open options are framed by the affiliated University. All the electives and optional subjects offered by the university are opted by the college.

(ii) Pattern of programmes:

Pattern	Number of programmes
Semester	9
Trimester	Nil
Annual	Nil

1.3 Feedback from stakeholders**(On all aspects)*

Alumni

Parents

Students

Employers

Mode of feedback :

Online

Manual

Co-operating schools (for PEI)

1.4 Whether there is any revision/update of regulation or syllabi, if yes, mention their salient aspects.

Yes. The Syllabi of MCA regular and lateral has been revised and introduced with effect from 2017 admissions. The salient features are:

The new syllabus:

- Has updated to cater with the current technological scenario in computer science and its applications
- The demand of languages such as Python, Ruby are given due credits in the updated syllabus
- More papers have been introduced as electives in the new syllabus which has relevant practical applications in computer field
- New syllabus has given with clear instructions and guidelines on the conduct of 5th semester seminar, mini project and also for 6th semester main project
- Obsolete contents were removed and replaced with updated content also with revised textbooks for reference
- One more revision in the MCA syllabus is expected on 2019 that will be envisioned in the proper and balanced discourse of the content which would be bearable for the students in

creating a hassle free learning environment and due credit will be given to the cutting edge technologies.

1.5 Any new Department/Centre introduced during the year. If yes, give details.

No

Criterion – II**2 Teaching, Learning and Evaluation****2.1 Total No. of permanent faculty:**

Total	Asst. Professors	Associate Professors	Professors	Others
46	35	9	2	-

2.2 No. of permanent faculty with Ph.D: 10**2.3 No. of Faculty Positions Recruited (R) and Vacant (V) during the year:**

Asst. Professors		Associate Professors		Professors		Others		Total	
R	V	R	V	R	V	R	V	R	V
10	-	-	-	-	-	-	-	-	-

2.4 No. of Guest and Visiting faculty and Temporary faculty:

Guest	Visiting	Temporary
4	1	-

2.5 Faculty participation in conferences and symposia:

No. of Faculty	International level	National level	State level
Attended Seminars/ Workshops	22	530	30
Presented papers	19	5	-
Resource Persons	-	6	10

2.6 Innovative processes adopted by the institution in Teaching and Learning:

- ✚ Preparing the academic plan for each department in advance at the beginning of the year.

- ✚ Full-fledged ICT enabled teaching methods including online submission and evaluation of assignments with open source tools for checking plagiarism
- ✚ Need based bridge courses.
- ✚ Peer assisted learning practices.
- ✚ Deputing faculty members for training and practice of simulation as a tool for effective training at Rajagiri College,Kochi.
- ✚ The institution has adopted the practice of inviting eminent academicians from reputed institution inside and outside India. The college invited Dr.Michael Sauer from the Dept of Natural Resources and Applied Science from the BOKE University, Vienna and had continuous interactive sessions for MSc students of School of Biosciences. The Duration of the program is one month.

2.7 Total No. of actual teaching days during this academic year:- 200days

2.8 Examination/ Evaluation Reforms initiated by the Institution (for example: Open Book Examination, Bar Coding, Double Valuation, Photocopy, Online Multiple Choice Questions):

In addition to the annual examination and evaluation plan of affiliating university, the college has initiated the practice of conducting internal examination using online multiple choice questions, open book examinations.

2.9 No.of faculty members involved in curriculum -restricting/ revision/ syllabus development as member of Board of Study/Faculty/Curriculum Development workshop

As Member of Board of Study	As Member to Faculty	As Member of Curriculum Development Workshop
1	4	2

2.10 Average percentage of attendance of students: 90%

2.11 Course/Programme wise distribution of pass percentage:

Title of the Programme	Total no. of students appeared	Division				
		Distinction %	I %	II %	III %	Pass %
MBA	128	3	37	-	-	41
MCA(Regular)	47	11	79	-	-	89
MCA(Lateral)	42	7	83	-	-	90
MSc Bioinformatics	3	-	1	-	-	66
MSc Biochemistry	19	-	10	-	-	53
MSc Food Technology & Quality Assurance	30	-	30	-	-	80
MSc Plant Biotechnology	2	-	2	-	-	100
MSc Biotechnology	5	-	1	-	-	20

2.12 How does IQAC Contribute/Monitor/Evaluate the Teaching & Learning processes:

- ✚ IQAC of the college in connection with the Dept of Management Study organized a National conference on DIGITAL TRANSFORMATION IN INDIA.
- ✚ The cell along with the School of BioSciences Inaugurated the Ramachandran Club.

2.13 Initiatives undertaken towards faculty development:

Faculty / Staff Development Programmes	Number of faculty benefitted
Refresher courses	1
UGC – Faculty Improvement Programme	1
HRD programmes	44
Orientation programmes	-
Faculty exchange programme	-

Staff training conducted by the university	-
Staff training conducted by other institutions	2
Summer / Winter schools, Workshops, etc.	33
Others	nil

2.14 Details of Administrative and Technical staff:

Category	Number of Permanent Employees	Number of Vacant Positions	Number of permanent positions filled during the Year	Number of positions filled temporarily
Administrative Staff	13	Nil	Nil	Nil
Technical Staff	15	Nil	Nil	Nil

Criterion – III

3. Research, Consultancy and Extension

3.1 Initiatives of the IQAC in Sensitizing/Promoting Research Climate in the institution

- ✚ Identification of the prioritised research area.
- ✚ Constitution of Research Forum with object of promoting research climate in the institution.
- ✚ To frame guidelines for understanding consultation and extension program.
- ✚ To visit reputed research institutions and allied organizations to establish Institution-Industry Linkages and collaborations.

3.2 Details regarding major projects

	Completed	Ongoing	Sanctioned	Submitted
Number	---	---	---	---
Outlay in Rs. Lakhs	---	---	---	---

3.3 Details regarding minor projects

	Completed	Ongoing	Sanctioned	Submitted
Number	2	3	---	---
Outlay in Rs. Lakhs	3,00,000	6,00,000	---	---

Completed Projects

1. **Production of callus from *Indigofera tinctoria* Lin., as an alternate source for the production of natural hair dyes** funded by Kerala State Council for Science, Technology and Environment (KSCSTE). Sanction no: 61/SPS 60/2016/KSCSTE. Amount Rs. 1,00,000.
2. **Environment Education Workshop using Games & Activities** funded by KSCSTE. Sanction order no: (p) 109/2016/KSCSTE. Amount Rs. 2,00,000.

Ongoing Projects

1. **Cyber Law and Security Awareness Programme for the Students of Schools & Colleges in Kerala**’ Funded by Kerala State Council for Science Technology and Environment ((No. SPC/130/2017/KSCSTE 04.11.2017 under science Science Popularization Programmes) – In Association with Kerala Police Amount Rs. 2,00,000.
2. **Establishment of a herbal garden for mass education and wide spread cultivation by raising herbal nursery** funded by National Medicinal Plant Board. Sanction order no: Z.18017/187/CSS/HG/KE-01/2014-15. Amount Rs. 2,00,000.
3. **Advances and Avenues in Science for School Students** funded by Kerala state council for science, technology and environment. File no: SPC/102/2016/KSCSTE. Amount Rs.2,00,000.

3.4 Details on research publications

	International	National	Others
Peer Review Journals	24	15	--
Non- Peer Review Journals	--	--	--
e-Journals	3	--	--
Conference Proceedings	4	8	--

Peer Review Journals –International

1. “A comprehensive review on question answering systems” Anitha Mary M O Chacko. 2018, *International Organization of Scientific Research [IOSR], Journal of Engineering*. 8(4):18 - 21. (UGC Approved Journal, Impact factor 1.645).
2. “Some definitions and interpretations on Fuzzy Soft Game” Sreelekshmi C. Warriar 2017. *International Journal of Mathematics Trends and Technology*. 49(2): 113-118. (UGC Approved, Impact Factor 2.53).
3. “Assessment of the textural variation of iced stored *Anabas testudineus* (Bloch, 1792) muscle tissue with emphasis on their collagen and myofibrillar protein content” Varghese, T., & Mathew, S. 2017. *Journal of Food Science and Technology*, 54(8): 2512-2518. (Impact Factor (Reuters) : 1.262, h5 index 35).

4. "Characterization of an Insecticidal Protein from *Withania somnifera* Against Lepidopteran and Hemipteran Pest. Molecular Biotechnology" George, B. S., Silambarasan, S., Senthil, K., Jacob, J. P., & Dasgupta, M.G. 2018. *60(4)*, 290-301.
5. "Relevance and Consequences of 'Demonetization' on Indian Economy" Jeemon Joseph 2017 *International Journal of Creative Research Thoughts*. *5(4)* : ISSN: 2320-2882.
6. "A study on Job Stress with Special reference to Traco Cables Industries in Tiruvalla" Jeemon Joseph. 2017. *International Journal of Creative Research Thoughts*. *5(4)* ISSN: 2320-2882.
7. "Influence of Advertisements on Brand Preference with Special reference to Consumer goods in Pathanamthitta (DT)" Jeemon Joseph. 2017. *International Journal of Creative Research Thoughts* *5(4)* ISSN: 2320-2882.
8. "A study on Training and Development of Employees To Increase the Productivity with Special reference to Travancore Cements Ltd, Kottayam" Jeemon Joseph 2017. *International Journal of Creative Research Thoughts*. *5(4)* ISSN: 2320-2882.
9. "To Study on Effectiveness of Promotional Programmes and its Effects on Consumer Perception with Special Reference to 'MORE' Products" Jeemon Joseph 2017. *International Journal of Creative Research Thoughts*. *5(4)* ISSN: 2320-2882.
10. "A Research Paper on Impact of Goods And Services Tax on Gross Domestic Product" Asha Lakshmi R.K. 2017. *International Journal of Exclusive Management Research*. *7(4)*: 05-11 .
11. "Financial Inclusion and Impact of Women Empowerment in Rural Area With Reference to Central Travancore Region of Kerala" Asha Lakshmi R. K. 2017. *International Journal of Application or Innovation In Engineering And Management*. *6(11)*: 017-023.
12. "Goods And Service Tax: Impact On MSMEs- A Comparative Study on Enterprises with in Kerala" Asha Lakshmi R. K. 2018. *Asia Pacific Journal of Research*. *1(LXXXVI)*: 39-43.
13. "Consumers Purchasing Behaviour towards Organic Vegetables with special reference to Kottayam District" Ajai Krishnan G., Nandhini M 2018. *Journal of Applied Science and Engineering Methodologies*, *1*: 37-40, ISSN: 2395-5341.
14. "Factors affecting the purchasing behavior of consumers in Ernakulam District with special emphasis on Bathing Soap" Ajai Krishnan G., Nandhini M 2017. *International Journal of Research in Arts and Science*. *3(Special Issue)*: 11-14. ISSN: 2394-9759. Doi: 10.9756/IJRAS.8150.

15. "A Study on Entrepreneurial Leadership Skills and Human Resource Management in Small and Medium Tourism Enterprises" Arun Prem, D. Kinslin and Tintumol P. Joseph 2017. *International Journal of Applied Business and Economic Research*. 15(18) (Part - II): 7-12. ISSN : 0972-7302.
16. "Employee Engagement among Tourism Enterprises of Thiruvananthapuram and Kollam Districts" Arun Prem and Tintumol P. Joseph 2018 *International Publication in International Journal of Application or Innovation in Engineering & Management*. 7(1): 62-68. ISSN 2319-4847.
17. "Role of women Empowerment in socio economic development of India with special Reference to Kudumbasree mission of Trivandrum district, Noorul Islam Strategic Management Ambience" Tintumol P. Joseph, Arun Prem and D Kinslin 2017. *Journal of Management – Special Edition*: 21-27. ISSN: 0973-3957.
18. "An Analysis of working capital and liquidity of ONGC Ltd with Special Reference to 2012 April to March 2017" Jibumon K. G. 2018. *International Journal of Application or Innovation in Engineering and Management*. 7(2): 25-29. ISSN 2319 – 4847.
19. "Young Consumers Attitude Towards Personal Care Product Advertising" Ligo Koshy 2018. *Asia Pacific Journal Of Research*. I(LVIV): 258-64. ISSN : 2320-5504. (Impact Factor 6.58).
20. "Influence of Different Advertisements Elements on Purchasing Decision of Personal Care products Among Youth" Ligo Koshy 2017. *Asia Pacific Journal Of Research*. I(LIII): 246-251. ISSN: 2320-5504. (Impact Factor 6.58).
21. "Overcoming the challenges and realizing the potential of retail analytics for next generation smart retail Business" Sudeep B Chandramana 2018. *International Journal of Enhanced research in Management & computer applications*. 7(1): 34-40 Impact factor 3.578.
22. "Retail analytics: Driving Success in Retail Industry with Business analytics" Sudeep B Chandramana 2017. *Research Journal of Social Science & Management*. 7(04): 159-165.
23. "Transition from Business schools to Leadership schools for Global Sustainability" Sudeep B Chandramana 2017. *International Journal of Science, Technology and Management*. 6(6): 254-260.
24. "Goods and service tax implementation in jewellery sector: A Comparative study on organised and unorganised traders in India" Ashalakshmi RK 2018. *International Journal of Management*. 9(3): 83-89.

Peer Review Journals –National

1. “A Review on Mind reading computer using Brain signals” Aravind AK and Nishad PM 2017, *Journal of Science and Technology and Management* 10(4): 377 -383.
2. “A Combined Classifier for offline Malayalam hand written Character Recognition” Anitha Mary M O Chacko 2017. *Journal of Science and Technology and Management* 10(4): 370-376.
3. “A review on Sixth Sense Technology Based on Hand Gestures” Tiji Thomas and Gemini Chandy 2017. *Journal of Science and Technology and Management* 10(2): 162-166.
4. “A Review on Hand-written Malayalam Character Recognition Using OCR” Oomman K Raju and Thomas Mathew 2017. *Journal of Science and Technology and Management* 10(2): 156-162.
5. “A Survey On Multimodal Human-Computer Interaction” Rani Susan Oommen and Suby Mariam Oommen 2017. *Journal of Science and Technology and Management* 10(2): 149-155.
6. “Phytochemical screening of ethnoveterinary plants commonly used by farmer of western ghats for mastitis of cattle” Jubin J. Kurichiyil, Arun K Das. 2017. *Journal of Science, Technology and Management*, 10(3), 262-266.
7. “A Pharmacological Review of Tinospora Cordifolia : the Magic Healer Plant of Ayurveda” Jenny Jacob 2017. *Journal of Science, Technology and Management*, 10(04): 352-355.
8. “Studies need for the assessment of sex determination in Zebrafish (Daniorerio)” Sridevi V. 2017. *Journal of Science, Technology and Management*, 10(04): 365- 369.
9. “Seaweed Biotechnology” Sridevi V., Guru Prasad M. 2018. “*Journal of Science, Technology and Management*, 11(01): 27 – 32”.
10. “Study on treatment process of effluent drug in industry” Guru Prasad M. 2017. *Journal of Science, Technology and Management*, 10(04): 359-364.
11. “Establishment of an efficient invitro regeneration protocol for rapid and mass propagation of *Dendrobium chrysotoxum* Lindl. using seed culture” Guru Prasad M, Biju Dharmapalan, Seeni S. and Divani S. 2018. *Journal of Science, Technology and Management*, 11(01) : 33-35.
12. “How do plants defend themselves from these natural enemies? An overview” Blessan Santhosh George and Modhumita Dasgupta. 2017. *Journal of Science, Technology and Management*. 10(1): 28-32.

13. "Present Environment for Entrepreneurship Development in India". V.P.Vijayamohan 2018. *Journal of Science, Technology and Management*. 11(1): 59-65. ISSN No: 0974-8334.
14. "Valuation Of Human Capital: An Accounting Perceptive With Special Reference to Banking Sector In Kerala" Asha Lakshmi R. K. 2017. *Journal of Science Technology And Management*. 10(3): 287-294.
15. "Entrepreneurial Motivation Among Female College Students in Kerala" Ligo Koshy 2017. *Nehru School of Management Journal*. 3(2): 1-5. ISSN: 2349-4883.

e-Journals –International

1. "Birds in and around MACFAST Campus, Thiruvalla, Kerala" Nishad PM and P. Greeshma 2017. *International Journal of Zoology and Research*. 7(4): 19-24. Impact factor 3.9678, ICV 59.71 NAAS Rating 3.10 IBI Factor 3.2.
2. "Critical Examination of Role Played by Self Help Groups in Waste Management with Special Reference to Kudumbasree in Kerala" Jeemon Joseph 2017. *Intercontinental Journal of Marketing Research Review*. 5(8): Impact factor: 4.311, ISSN (Online) 2321-0346.
3. "A Diagnostic Study on Inventory Turnover of Manufactures Brands Vs Private Labeled Brands" Jeemon Joseph 2017. *Intercontinental Journal of Marketing Research Review*. 5(8): Impact factor 4.311,ISSN (Online) 2321-0346.

Conference Proceedings –International

1. "Extension of Nash Equilibrium theorems using Soft set" Sreelekshmi C. Warriar, 2018 , *International Journal of Mathematical Archive(IJMA)* (UGC Approved), ISSN 2229-5046, Vol.9,No:1January 2018.as proceedings of International Conference on Intuitionistic Fuzzy sets and Systems .
2. "Employee engagement among tourism enterprises of Ernakulam and Alappuzha Dist" Tintumol P Joseph and Arun Prem,2017.. as proceedings of International Conference on Bridging the gap between management, Education and Practice conducted at Institute of Technology, Mayyil on 24th-25th November, 2017.
3. "Role of advertising in the formation of attitude towards online advertising" Ligo Koshy as proceedings of One day International Seminar on Digital Marketing at St Teresa's College (Autonomous) on 7th March, 2018.

4. “Entrepreneurial motivation among female college students in Kerala” Ligo Koshy. as *proceedings of International Conference : Women Entrepreneurship & Business Management organized by Nehru School of Management on 23rd March, 2018*

Conference Proceedings –National

1. “ A study on deep web search engines to explore the hidden Internet” ,Ranjini Mariam Philipose and Phijo J Cherickal, as *proceedings of National Conference on Advance Computing and Communication Technology- organized by Santhigiri College Vazhithala 25th January 2017.*
2. “A Review on Face Reorganization Using Principle Component Analysis”, Nishad PM and Dinesh KS as *proceedings of the National conference on digital transformation in India Prospects and challenges -25th April 2018 .*
3. “A Detailed Review on Content Based Image Retrieval System (CBIR)” Nishad PM and Liji Jacob as *proceedings of the National conference on digital transformation in India Prospects and challenges -25th April 2018.*
4. “A study to evaluate the Performance of Blowfish algorithm” Nishad PM and Shinu Sam as *proceedings of the National conference on digital transformation in India Prospects and challenges -25th April 2018.*
5. “Significant varietal difference between Robusta (AAA) and Nendran (AAB) during In vitro multiplication” Guru Prasad M. 2018 as *proceedings of the National banana festival 2018, Kalliyoor, Thiruvananthapuram, Kerala.*
6. “Role of communication media in revamping science education” Biju Dharmapalan. 2018 as *proceedings of 11th Science Communicators' Meet, 105th Indian Science Congress, Manipur University, Imphal.*
7. “Exploring the intensity to watch advertisements on YouTube among youth” Ligo Koshy 2018 as *proceedings of National conference on digital transformation in India Prospects and challenges organized by Mar Athanasios College for Advanced Studies on 25th April 2018.*
8. “Digitization of Indian economy and human capital challenges” Sherin Susan Jacob and Ansu Mary Joji Varghese as *proceedings of National conference on digital transformation in India Prospects and challenges organized by Mar Athanasios College for Advanced Studies on 25th April 2018.*

3.5 Details on Impact factor of publications:

	Range	Impact Factor	Average	H-Index	Nos. In Scopus
1	<1	---	---	---	2
2	>1 and <2	3	1.514	---	
3	>2 and <3	1	2.53	---	
4	>3 and <5	4	4.042	---	
5	>5	7	6.144	2	

1. *International Organization of Scientific Research [IOSR] Journal of Engineering*, Impact factor 1.645.
2. “*International Journal of Mathematics Trends and Technology*” Impact factor 2.53.
3. “*International Journal Of Zoology and Research*” Impact factor 3.9678, ICV 59.71 NAAS Rating 3.10 IBI Factor 3.2.
4. *Journal Of Food Science And Technology* : Scopus indexed
Impact Factor (Reuters) : 1.262 h5 index : 35.
5. *Molecular Biotechnology* : Scopus indexed
Impact Factor (Reuters) : 1.634 h5 index : 27.
6. *Asia Pacific Journal Of Research* Impact factor: 6.58.
7. *International Journal Of Creative Research Thoughts:(UGC Approved)* Impact factor: 5.97.
8. *Intercontinental Management Research Review* Impact factor: 4.311.
9. *International Journal of Enhanced research in Management & computer applications*, Impact factor 3.578 .

3.6 Research funds sanctioned and received from various funding agencies, industry and other organisations.

Projects Sponsored by the University/ College

Nature of the Project	Duration Year	Name Of the Funding agencies	Total Grant Sanctioned	Received
Major Projects	--	--	--	--
Minor Projects	2017	KSCSTE	2,00,000	1,00,000
	2017	KSCSTE	1,00,000	1,00,000
	2017	KSCSTE	2,00,000	2,00,000
	2014-2019	NMPB	2,00,000	1,00,000
	2016-2018	KSCSTE	2,00,000	2,00,000
Inter Disciplinary Projects	----	----	----	----
Industry Sponsored	----	----	----	----
Projects Sponsored by the University/College	2017-2018	Management	20,000	20,000
Student Research Projects	----	----	----	----
Any Other(Specify)	----	----	----	----
Total			9,20,000	7,20,000

3.7 No. of books published i) With ISBN No. Chapters in Edited Books

ii) Without ISBN No.

3.8 No. of University Departments receiving funds from

UGC-SA CAS DST-FIST

DPE DBT Scheme/funds

3.9 For colleges Autonomy CPE DBT Star Scheme

INSPIRE CE Any Other (specify)

3.10 Revenue generated through consultancy

Rs.32,000

3.11 No. of conferences organized by the Institution

Level	International	National	State	University	College
Number	Nil	1	Nil	Nil	Nil
Sponsoring Agencies	Nil	Management	Nil	Nil	Nil

3.12 No. of faculty served as experts, chairpersons or resource persons

11

3.13 No. of collaborations

International

Nil

National

2

Any other

1

3.14 No. of linkages created during this year

1

3.15 Total budget for research for current year in lakhs :

From Funding agency

2

From Management of University/College

0.02

Total

2.02

3.16 No. of patents received this year

Type of Patent		Number
National	Applied	Nil
	Granted	
International	Applied	Nil
	Granted	
Commercialised	Applied	Nil
	Granted	

**3.17 No. of research awards/ recognitions received by faculty and research fellows
Of the institute in the year**

Total	International	National	State	University	Dist	College
3	----	2	1	----	----	----

3.18 No. of faculty from the Institution who are Ph. D. Guides

and students registered under them

3.19 No. of Ph.D. awarded by faculty from the Institution

3.20 No. of Research scholars receiving the Fellowships (Newly enrolled + existing ones)

JRF

SRF

Project Fellows

Any other

3.21 No. of students Participated in NSS events:

University level

State level

International level

National level

3.22 No. of students participated in NCC events:

University level

State level

International level

National level

3.23 No. of Awards won in NSS:

University level

State level

International level

National level

3.24 No. of Awards won in NCC:

University level

State level

International level National level

3.25 No. of Extension activities organized

University forum College forum
 NCC NSS Any other

3.26 Major Activities during the year in the sphere of extension activities and Institutional Social Responsibility

1. Awareness on Cyber Security Issues.

“Cyber Security and Awareness Campaign” organized in association with Kerala Police and KSCSTE. The district level inauguration and campaign conducted at St. Thomas college, Kozhencherry on 12th June, 2018. The state level campaign inaugurated by Sri. Loknath Behera IPS at MACFAST on 5th July, 2018.

2. Awareness campaign against environmental hazards of plastic bottles.

A team of students of the college have collected plastic bottles from the trains and used these bottles to construct a hanging garden at Thiruvalla railway station as part of the awareness programme.

3. Promotion of Healthy Food Habits.

For the promotion of indigenous food crops and healthy food a jackfruit/papaya fest was conducted in collaboration with YMCA Thiruvalla on May 8th 2017.

4. Promotion of Healthy Food Habits at Agro Food Pro, 2018 :

An “Agro Food Pro 2018” was conducted during 10th to 13th March 2018 by the Dept. of Industries and Commerce and Govt. of Kerala at the Thekkinkadu Maidanam, Thrissur. The MSc Food Technology and Quality Assurance students of MACFAST operated a stall for three days displaying food products prepared from Mango, Papaya, Pineapple, Guava, Plantain, Homemade Chocolates & other dehydrated products. It is formulated under the supervision of the faculty in the Food Pilot Plant of the department.

5. Technological Enrichment Programmes.:

Technological enrichment programmes on “*Php & Mysql*” in 18 selected colleges in Kerala.

Criterion – IV**4. Infrastructure and Learning Resources****4.1 Details of increase in infrastructure facilities:**

Facilities	Existing	Newly created	Source of Fund	Total
Campus area(sq.mts)	30270.5	-	Own fund	30270.5
Class rooms(Nos)	20	-	-	20
Laboratories(Nos)	5	-	-	5
Seminar Halls(Nos)	2	-	-	2
No. of important equipments purchased (\geq 1-0 lakh) during the current year.	24	14	Own fund	38
Value of the equipment purchased during the year (Rs. in Lakhs)	7.61	2.06	Own fund	9.67
Others(Rs. in Lakhs)	-	-	-	1.0

4.2 Computerization of administration and library

- ✚ Installed 6 additional CCTV cameras to increase the physical security level of the campus.
- ✚ Department of Accounts and Finance shifted to newly area with Air condition facility.
- ✚ Installed a new enhanced WiFi access facility in collaboration JIO is to facilitate internet access inside library to provide additional 1 GB of data transaction per user

4.3 Library services:

	Existing		Newly added		Total	
	No.	Value	No.	Value	No.	Value
Text Books	26,902		2871	1465970		
Reference Books	1773	73,93,952	1027	663850	32573	10,5,94,609

e-Books	nil	nil	nil	nil	nil	nil
Journals	133	149477	9	9146	142	158623
e-Journals	-	-	3	6954264	3	694264
Digital Database	2	50,000	-	-	2	50,000
CD & Video	908	-	27	-	935	
*Bound Vol	3560		30		3590	
*Project	1775		223		1998	

4.3 Technology up gradation (overall):

	Total Computers	Computer Labs	Internet	Browsing Centres	Computer Centres	Office	Departments	Others
Existing	177	142	34 Mpbs and 10 Mbps	-	-	2	3	30
Added	25	-	11 Mbps And 64 Kbps	-	-	2	1 (Laptop)	22
Total	202	142	65 Mbps and 64 Kbps	-	-	4	4	52

4.5 Computer, Internet access, training to teachers and students and any other programme for technology :

- ✚ Installed new PoE internet switches to increase the reliable and continuous internet connectivity round the clock all the 365 days
- ✚ Conducted Technology upgradation sessions staff and students.
- ✚ Upgraded existing internet bandwidth from 44 Mbps (34 Mbps ILL + 10 Mbps NME) single supplier BSNL to 55 Mbps (45 Mbps ILL + 10 Mbps NME) and 64 Kbps ILL from two service providers - BSNL, Alliance respectively.
- ✚ A new BSNL 3G GSM Antenna pole for the entire college is setup at MACFAST.

4.6 Amount spent on maintenance in lakhs :

i) ICT	-
ii) Campus Infrastructure and facilities	7.26
iii) Equipments	0.13
iv) Others	2.46
Total :	9.85

Criterion – V

5. Student Support and Progression

5.1 Contribution of IQAC in enhancing awareness about Student Support Services:

- ✚ Reconstituted the Mentoring Committee in each department of the college by forming Mentoring Groups of 10-15 students under each faculty.
- ✚ Instituted a Student Help Desks.
- ✚ Reconstituted the Placement Cell as Department of Corporate Relations and Career guidance.
- ✚ Discipline committee is constituted at department level and at college level .
- ✚ Reconstituted the anti-ragging cell as per the AICTE Guidelines.

5.2 Efforts made by the institution for tracking the progression:

- ✚ Student data of each student is separately recorded.
- ✚ An analysis of university result progression is made immediately after the publication of university results.
- ✚ A PTA meeting is conducted periodically.
- ✚ In addition to the usual annual alumni meets periodical Alumni meet is arranged in National and International venues chaired by the principal, founder chairman and faculty members.

5.3 (a) Total Number of students:

UG	PG	Ph. D.	Others
N.A	510	NIL	0

(b) No. of students from outside the state :

(c) No. of international students :

	No:	%
MEN	163	31.96
WOMEN	347	68.04

Year	General	SC	ST	OBC	Physically Challenged	Total
Last Year	173	9	0	44	-	226
This Year	235	7	0	109	0	351

Demand Ratio

2:1

Dropout Ratio %

0.98

5.4 Details of student support mechanism for coaching for competitive examinations (If any):

Arranged coaching classes for UGC-CSIR,GATE and ARS examinations

No. of students beneficiaries:

13

5.5 No. of students qualified in these examinations :

NET

-

SET/SLET

-

GATE

-

CAT

-

IAS/IPS etc

-

State PSC

-

UPSC

-

Others

JRF -1

5.6 Details of student counselling and career guidance:

- ✚ Mentoring group of the college identifies potential counselling issues.
- ✚ Counselling is provided by trained counsellors twice in every week.
- ✚ Macfast Corporate relations and career guidance provides information relating to current placement opportunities.

No. of students benefitted:

210

5.7 Details of campus placement

On campus			Off Campus
Number of Organizations Visited	Number of Students Participated	Number of Students Placed	Number of Students Placed
26	186	76	11

5.8 Details of gender sensitization programmes:

- On 27th February 2018 a one day Vanitha conference on “Women Empowerment” is organized by Women Cell and it is sponsored by M.G university.

5.9 Students Activities

5.9.1 No. of students participated in Sports, Games and other events

State/ University level National level International level

No. of students participated in cultural events

State/ University level National level International level

5.9.2 No. of medals /awards won by students in Sports, Games and other events:

Sports : State/ University level National level International level

Cultural : State/ University level National level International level

5.10 Scholarships and Financial Support

	No: of students	Amount Rs.
Financial support from institution	51	3,18,300
Financial support from government	3	22,500
Financial support from other sources	-	-
Number of students who received International/ National recognitions	-	-





5.11 Student organised / initiatives

Fairs : State/ University level National level International level

Exhibition: State/ University level National level International level

5.12 No. of social initiatives undertaken by the students :

5.13 Major grievances of students (if any) redressed:

-  Installed water purifier in all floors to redress the complaint of availability of pure drinking water...
-  1027 reference books were purchased during the year to support the academic requirements of MSc Bio Sciences students.
-  Modernized the basketball court to cater to gender needs of students.
-  Installed a new Lease Line in addition to the existing BSNL Line to address the connectivity and speed requirements of the entire campus.

Criterion – VI**6. Governance, Leadership and Management****6.1 State the Vision and Mission of the institution**

Vision: To attain the level of excellence at par with top international institutions so as to become a trend setter in education.

Mission: To transform young people and mould them into value-driven, culturally enriched and professionally competent change agents who would significantly contribute to improving their immediate community, the state, the country and the world at large.

6.2 Does the Institution has a Management Information System : Yes**6.3 Quality improvement strategies adopted by the institution for each of the following:****6.3.1 Curriculum Development**

Although the curriculum is designed by the affiliating university, college has been following the methods for developing the curriculum by incorporating latest development in the concerned subjects. Implementation of the curriculum is done through preparation of a detailed academic plan for each year. Industry interaction programs are organized to bridge the gaps in the syllabi.

6.3.2 Teaching and Learning

The college is following the practice of encouraging the participatory method of teaching and learning process using ICT enabled facilities. Students are encouraged to work beyond the syllabus and are expected to submit assignments, participate in seminars, analyse case studies and undertake mini projects. The college has an online feedback system for evaluating the effectiveness of the teaching learning process adopted.

6.3.3 Examination and Evaluation

The evaluation process is monitored by the IQAC so as to ensure that the entire process is unbiased and transparent.

6.3.4 Research and Development

The college has constituted a Research Forum consisting of research guides, research scholars and students. Financial assistance to the faculty members for attending FDP's, seminars, conferences and workshops etc... are provided by the institutions.

6.3.5 Library, ICT and physical infrastructure / instrumentation

The college has upgraded the software and installed high speed lease lines. As our extension to the physical infrastructure parking area is provided in adjacent campus.

6.3.6 Human Resource Management

The HR policy of the college has been reframed in accordance with suggestions and feedback from the staff members.

6.3.7 Faculty and Staff recruitment

The HR department undertakes the responsibilities of recruitment and selection. The recruitments are through advertisements in leading newspapers and in Radio Macfast 90.4 based on the vacancies reported from the departments.

6.3.8 Industry Interaction / Collaboration

Macfast Industry Interface(MII), Industrial Visits, and Entrepreneurial Development programme etc... are scheduled for providing exposure to the students.

6.3.9 Admission of Students

The Heads of the Departments are in charge of the admission of the concerned departments. It is monitored by the college level Admission Monitoring committees constituted by the IQAC.

6.4 Welfare schemes for

Teaching Staff	PF,ESI Medical Insurance Scheme, Interest Free Loan facility, Transport Facility, Free Accommodation, , bi-annually medical check-up.
Non teaching Staff	PF, Medical Insurance, Interest Free Loan facility, Free Accommodation, Transport Facility, bi-annually free medical check-up.

Students	Annual medical check-up, rest room facility, drinking water facility, Fitness room, E.T club, Training in sports and games, Food court, Merit scholarships, Fee concession for students, Transport Facility upto thiruvalla.
-----------------	--

6.5 Total corpus fund generated

The total corpus fund consists of tuition fees collected and net revenue of the campus college community radio(Radio Macfast 90.4).

6.6 Whether annual financial audit has been done Yes No

6.7 Whether Academic and Administrative Audit (AAA) has been done?

Audit Type	External		Internal	
	Yes/No	Agency	Yes/No	Authority
Academic	No	-	Yes	Management
Administrative	“	-	Yes	“

6.8 Does the University/ Autonomous College declares results within 30 days

For UG Programmes Yes No (No under graduate programmes offered by the college)

For PG Programmes Yes No

6.9 What efforts are made by the University/ Autonomous College for Examination Reforms?

The University has implemented Online Secured Question Paper Management System for CBCSS exams.

6.10 What efforts are made by the University to promote autonomy in the affiliated/constituent colleges?

At present only selected affiliated colleges in the Govt./Govt.-aided sector are given the autonomy in curriculum designing and conduct of examinations.

6.11 Activities and support from the Alumni Association

The alumni association provides quality placement and support for conduct of national level academic fest of the college.

6.12 Activities and support from the Parent – Teacher Association

The Parent –Teacher Association formed a registered society for supporting the administrative and development activities of the college including purchase and distribution of uniforms,bags,laptops etc... to the students.

6.13 Development programmes for support staff.

Training programmes are provided to support staff to create environmental awareness among them at periodical intervals. They have separate rest room facility.

6.14 Initiatives taken by the institution to make the campus eco-friendly.

The college always maintains a green cover for the entire campus, as part of this activity this year fruit trees are planted in the boundaries of the campus.

Criterion – VII

7. Innovations and Best Practices

7.1 Innovations introduced during this academic year which have created a positive impact on the functioning of the institution. Give details.

The following are the innovations introduced this year.




1. ‘ Vijnana Veedhi ’ - A Knowledge Sharing Network for Social Development.

This program is to develop a link between faculty members of the college and society with the aim of rebuilding and strengthening of the social responsibility of the college. It is planned as a program for knowledge sharing among the society through the formal channel of Radio Macfast 90.4. This platform will enable the public to fulfil their need for dealing with real life situations. It also provide answers to the common people regarding the fundamental questions in the areas of Science, Technology and Management. The faculty members use their wide experience and technical knowhow to share their knowledge.

2. MACFAST Water Analysis and Assurance Scheme (M-WAAS)

The aim of this program is testing of bacteriological quality of drinking water to ensure availability of safe and clean drinking water to the staff and students of the college and for the public. The School of Bioscience is conducting the bacteriological quality analysis of drinking water collected from the campus and surrounding residential areas within five kilo metres of the college. The analysis is carried on in accordance with the standard protocol for the detection of fecal coliforms by the Most Probable Number Test (Presumptive test). The water samples are collected twice every month and analysis is repeated periodically to ensure consistent quality of the drinking water.

7.2 Provide the Action Taken Report (ATR) based on the plan of action decided upon at the beginning of the year :

-  Set up a research room in MACFAST Library Information Centre exclusively for research scholars and faculty members.
-  Placement Cell of the college is re-designated as ‘**Placement and Corporate Relations Office**’ considering the suggestions of the corporate clients..
-  Upgraded the solar power capacity from 30KW to 130KW.

- ✚ An agreement was made with the Sami Labs Bengaluru for providing internship and training for MSc students of Plant Biotech and Phytomedical Science and Technology.
- ✚ Knowhow for the herbal mouth wash developed by the Phytomedical Science and Technology Department of the school of biosciences is transferred to Sami Labs, Bengaluru for further commercial development.

7.3 Give two Best Practices of the institution (please see the format in the NAAC Self-study Manuals)

1. Title of the Practice: MACWINGS

Macwings is an activity of community development initiated by the Post Graduate students in tune with the vision of Macfast. It is a service to the school students residing near and around the college. MSc, MBA and MCA students residing in the hostels are devoting a part of their time for addressing the academic needs of students from socially and economically backward families. Students of Macfast provide coaching classes to school students of both English and Malayalam medium from any schools in the vicinity. Classes are mainly conducted during Saturdays and Sundays from 10am to 12 noon or on mutually convenient days and timings.

Objectives:

1. To enable the target group to achieve higher grade and respectable position among their peers.
2. To develop the self-respect and confidence among the students.
3. To improve communication skills, personality and leadership skills of school students.

The Practice:Evidence of Success

MACWING's classes are conducted mainly during Saturday's and Sunday's from 10am to 12 noon or on mutually convenient days and timings. Classes are also arranged for some groups in the evening from 5:15pm to 6:45pm.It gives an opportunity to extend the social responsibility programs of the college outside the campus. Hence, this program help the postgraduate students of the college to develop a concern for socially and economically backward students, by involving themselves voluntarily. It also gives them an opportunity to gain teaching experience. The students involved in the program are encouraged to contact the concerned faculty members of the college for clarification, guidance and successful implementation of this program. Faculty members of all departments support MACWINGS program wholeheartedly.

Problems Encountered

1. The beneficiary students of English and Malayalam medium schools, whose basic understanding are at different levels. Moreover, the portions covered at these schools are also at different levels.. Hence preparing them for terminal exams is a difficult task.
2. The students engaging the sessions could not maintain their initial enthusiasm for the program due to the stress of their own studies and other concerns like placement drive etc.
3. Parents of the children may become hostile if they are not able to achieve good results.

Conclusion

The student of MACFAST engaged in MACWING's programme coins the slogan "**Together we can, we should**". They strive their level best to fulfil this slogan. The hope and expectations of this programme kindles among the school students enable them to have good scores in their studies and strive for a better future.

2.Title of the Practice: MACFAST TECH FORUM.

MACFAST Tech Forum is a movement designed by the Department of Computer Applications to address the need for adequate level of IT awareness among the people. In the technical sessions of this forum, faculty members explain in simple language the complex IT related aspects relevant in the day to day life of people. Participants for this programme include teachers, non-teaching staff, support staff and also aspirants from far and near places of the college.

Objectives:

1. To create an IT knowledge base among common people.
2. To help them fulfil their computer related needs and to enable them to use National IT portals.
3. To familiarise them about the latest changes in the field of Information Technology in a layman's language.
4. To support ICT enabled teaching and learning exercise.

The practice:Evidence of Success:

The involved participants of Macfast Tech forum are given contact classes fortnightly on a pre-announced schedule. They are also given practical classes in the computer lab of the college

under the direct supervision of the concerned faculty members. Proficiency in handling their IT needs evaluated through regular feedback sessions.

The identified fear of failure of participants in communicating and in practice could be gradually reduced with the progress of the session.

Problems Encountered:

1. The widely different levels in the knowledge base , basic education and age groups of the participants enrolled, make it difficult in addressing them collectively by the experts.
2. The lack of consistent attitude of participants put difficulties for achieving satisfactory results.
3. Absenteeism of participants and irresponsible behaviour due to lack of proper background is also to be tackled.

Conclusion

The MACFAST Tech Forum programme is periodically conducted based on a pre-determined schedule. The review of the programme shows a gradual increase in the number of participants over these months. This program enables the participants to move along with the fast changing IT enabled life style of the community. It provides the participants an idea about the latest developments in the field of IT like artificial intelligence, robotics, big data analysis etc.

7.4 Contribution to environmental awareness / protection

- ✚ Initiated a project on “*Affinaval Diversity and Butterflies*” in and around the campus with a static view to create an awareness among the students and public.
- ✚ Planted fruit trees in the campus as part of World Environment Day celebrations. There is a visible increase in the roosting area in the campus.
- ✚ Participated in the Swatch Bharath Mission of the Central Government and a campaign on green and clean is conducted for staff and students .
- ✚ Participated in the Punnyam Poukavanam project with Kerala Police and Travancore Devasam Board for the cleaning of Sabarimala..
- ✚ Provided multi-coloured bins to segregate waste from source in the premises.

7.5 Whether environmental audit was conducted? No

7.6 Any other relevant information the institution wishes to add. (for example SWOT Analysis)

SWOT Analysis

Strength

1. Support of reputed and established management by Corporate Educational Agency of Malenkara Catholic Archdioceses.
2. Expert guidance of eminent members of Governing Board and Academic Council.
3. State-of- the -art Infrastructure facilities.
4. ICT enabled teaching, learning and administration.
5. Focus on outcome based research activities.
6. Excellent institutional commitment for social responsibility.
7. Beneficial linkage with corporate sector for internship and placements of students.
8. Effective collaboration for social responsibility programmes with the Kerala Police and Government agencies like District Collectorate Pathanamthitta and Municipality Thiruvalla.

Weakness

1. Inadequate financial support from Government agencies.
2. Lack of academic autonomy.
3. Limited industrial development.

Opportunities

1. Potential to tap NRI support for integrated development of the institution.
2. Scope for adopting to fast-moving technologies.
3. Potential for establishing strategic relationship with reputed institutions.

Threats

1. Mushrooming of too many institutions offering professional academic programs at cheap rates especially MBA and MCA..
2. Slow rate of growth of industrial sector in Kerala.

8. Plans of institution for next year

1. Commencement of the MSc program in Bio-nano Food Technology.

2. Air conditioning of library, laboratories and class rooms using solar energy .
3. Signing up of MoU with reputed Scientific and academic institutions in India and abroad.
4. Organizing departmental International conferences.
5. Digitalisation of the campus..

Name : Dr. K. R Sukumaran Nair

Name :Fr.Dr.Cherian J Kottayil

Signature of the Coordinator, IQAC

Signature of the Chairperson, IQAC

ANNEXURE

ANNEXURE-1**Abbreviations:**

ARS	-	Agriculture Research Service.
CAT	-	Common Admission Test
CBCS	-	Choice Based Credit System
ESI	-	Employee's State Insurance
GATE	-	Graduate Aptitude Test
ICT	-	Information and Communication Technology
JRF	-	Junior Research Fellowship
KSCSTE	-	Kerala State Council for Science, Technology and Environment
NET	-	National Eligibility Test
PoE	-	Power over Ethernet
PTA	-	Parent Teacher Association
SAP	-	Special Assistance Programme
SET	-	Symbiosis Entrance Test
SF	-	Self Financing
SLET	-	State Level Eligibility Test
TEI	-	Teacher Education Institution
UPE	-	University with Potential Excellence
UPSC	-	Union Public Service Commission



MAR ATHANASIOS COLLEGE
FOR ADVANCED STUDIES TIRUVALLA

ACADEMIC CALENDER

2017-18

MACFAST

July 2017

Date	Day	Activity for MBA 1 st & 3 rd Semester, MCA 1 st 3 rd and 5 th semester regular & lateral entry and Bioscience MSc 1 st and 2 nd semester	Working Days	Activity for MBA 2 rd & 4 th Semester, MCA 2 nd 4 th & 6 th semester regular & lateral entry and Bioscience MSc 3 rd & 4 th semester	Working Days
1	SAT				
2	SUN				
3	MON	St. Thomas Day		St. Thomas Day	
4	TUE			S4 MBA Final Project Submission	
5	WED	Inauguration of S1MBA And OS Report Final Submission of S3 MBA. University Theory Examination for MCA S1 & S3(L.E) Ends			
6	THU	Bridge Course for S1MBA			
7	FRI				
8	SAT	Second Saturday		Second Saturday	
9	SUN				
10	MON				
11	TUE	S2 Bioscience University Exam			
12	WED			Commencement of S2 MCA	
13	THU	S2 Bioscience University Exam			

14	FRI	Aptitude Training for S3MBA			
15	SAT	Mar Ivanios Day, Aptitude Training for S3MBA		Mar Ivanios Day	
16	SUN				
17	MON	S2 Bioscience University Exam		First Internal Exam for S4 MCA(Reg & L.E)	
18	TUE				
19	WED	S2 Bioscience University Exam		First Internal Exam for S4 MCA(Reg & L.E) ends	
20	THU			Dot Net Training for S4 MCA(L.E) starts.	
21	FRI			Commencement of S4 MBA University Exam	
22	SAT				
23	SUN	Karkidaka Vavu		Karkidaka Vavu	
24	MON			First Internal Exam for S2 MCA	
25	TUE				
26	WED				
27	THU				
28	FRI			First Internal Exam for S2MCAends	
29	SAT				
30	SUN				
31	MON				

August 2017

Date	Day	Activity for MBA 1 st & 3rd Semester, MCA 1 st 3 rd and 5 th semester regular & lateral entry and Bioscience MSc 1 st and 2 nd semester	Working Days	Activity for MBA 2 nd & 4 th Semester, MCA 2 nd 4 th & 6 th semester regular & lateral entry and Bioscience MSc 3 rd & 4 th semester	Working Days
1	TUE				
2	WED	“Hands-on training on Plant Tissue Culture techniques and Applications”, 2 nd to 12 th August		S3 biosciences class commences	
3	THU				
4	FRI				
5	SAT				
6	SUN				
7	MON				
8	TUE			S4 FT&QA University Practical Exam	
9	WED	HACCP Training Programme- FT&QA		S4 FT&QA University Practical Exam	
10	THU	HACCP Training Programme- FT&QA			
11	FRI	HACCP Training Programme- FT&QA			
12	SAT	Second Saturday		Second Saturday	
13	SUN				
14	MON				
15	TUE	Independence Day		Independence Day	

16	WED				
17	THU				
18	FRI				
19	SAT				
20	SUN				
21	MON				
22	TUE	Training Programme in Basic Chromatographic Techniques, MBA Fest TANTRA			
23	WED	Training Programme in Basic Chromatographic Techniques, MBA Fest TANTRA			
24	THU	Training Programme in Basic Chromatographic Techniques			
25	FRI				
26	SAT				
27	SUN				
28	MON	Ayyankali Jayanthi		Ayyankali Jayanthi	
29	TUE				
30	WED	Onam Celebration		Onam Celebration	
31	THU	Onam Holidays		Onam Holidays	

September 2017

Date	Day	Activity for MBA 1 st & 3 rd Semester, MCA 1 st 3 rd and 5 th semester regular & lateral entry and Bioscience MSc 1 st and 2 nd semester	Working Days	Activity for MBA 3 rd & 4 th Semester, MCA 2 nd 4 th & 6 th semester regular & lateral entry and Bioscience MSc 3 rd & 4 th semester	Working Days
1	FRI	Ed- Ul Az-ha Onam Holidays		Ed- Ul Az-ha Onam Hplidays	
2	SAT	Onam Holidays		Onam Holidays	
3	SUN	Onam Holidays		Onam Holidays	
4	MON	Onam Holidays		Onam Holidays	
5	TUE	Onam Holidays		Onam Holidays	
6	WED	Onam Holidays		Onam Holidays	
7	THU	Onam Holidays		Onam Holidays	
8	FRI	Onam Holidays		Onam Holidays	
9	SAT	Second Saturday, Onam Holidays		Second Saturday, Onam Holidays	
10	SUN	Onam Holidays		Onam Holidays	
11	MON	Internal Exam of MBA S1		Model Examination for S4 MCA(Reg & L.E) starts.	
12	TUE	Sreekrishna Jayanthi, Onam Holidays		Sreekrishna Jayanthi, Onam Holidays	
13	WED				
14	THU	S2 FT&QA University Practical Exam		Inagural ceremony of MCA 2017-2020 & MCA 2017-19 L.E batch.	

15		FRI	S2 FT&QA University Practical Exam Last Working day for S2 MCA.		Orientation Programme of MCA 2017-2020 & MCA 2017-19 L.E batch starts.	
16		SAT			Model Examination for S4(Reg&L.E) ends.	
17		SUN				
18		MON			Orientation Programme of MCA 2017-2020 & MCA 2017-19 L.E batch ends.	
19		TUE				
20		WED	Re-Union Day		GN Ramachandran Science Club Seminar on ' Drug Development and career prospects in Start-up Companies' by Dr. CN Ramchand, Chief Executive Officer, Saksin Lifesciences Pvt. Ltd	
21		THU	Sree Narayanaguru Samadhi		Sree Narayanaguru Samadhi	
22		FRI				
23		SAT	Science Popularization Programme- A Day in the Food Analysis Lab organized for School students			
24		SUN				
25		MON	Inauguration of new		Seminar on "Interdisciplinary	

			Biosciences batch Model Examination for S2 MCA starts		Education and Teaching” by Prof. (Dr.) S. Murty Srinivasula, Member, Governing Board and Senate, (IISER), Thiruvananthapuram	
26		TUE				
27		WED				
28		THU	Mar Athanasious Day Model Examination for S2 MCA ends		Mar Athanasious Day	
29		FRI	Mahanavami		Mahanavami	
30		SAT	Vijayadasami, Muhram		Vijayadasami Muhram	

October-2017

Date	Day	Activity for MBA 1 st & 3 rd Semester, MCA 1 st 3 rd and 5 th semester regular & lateral entry and Bioscience MSc 1 st and 2 nd semester	Working Days	Activity for MBA 2 nd & 4 th Semester, MCA 2 nd 4 th & 6 th semester regular & lateral entry and Bioscience MSc 3 rd & 4 th semester	Working Days
1	SUN				
2	MON	Gandhi Jayanthi		Gandhi Jayanthi	
3	TUE				
4	WED				
5	THU				
6	FRI				
7	SAT				
8	SUN				
9	MON				
10	TUE				
11	WED				
12	THU				
13	FRI	Commencement of University Theory exam for S2 MCA			
14	SAT	Second Saturday		Second Saturday	
15	SUN				
16	MON				

17	TUE				
18	WED	Deepavali		Deepavali	
19	THU	Internal Exam MBA S3			
20	FRI	University Theory exam for S2 MCA ends.			
21	SAT				
22	SUN				
23	MON	Project Review for MCA 2017 pass out batch.			
24	TUE				
25	WED				
26	THU				
27	FRI				
28	SAT				
29	SUN				
30	MON	The GN Ramachandran Science Club Seminar on "How to build a scientific enterprise" by Dr Muhammed Majeed, Managing Director, SAMI LABS Ltd			
31	TUE	Last Working Day of S1MBA			

November 2017

Date	Day	Activity for MBA 1 st & 3 rd Semester, MCA 1 st 3 rd and 5 th semester regular & lateral entry and Bioscience MSc 1 st and 2 nd semester	Working Days	Activity for MBA 2 nd & 4 th Semester, MCA 2 nd 4 th & 6 th semester regular & lateral entry and Bioscience MSc 3 rd & 4 th semester	Working Days
1	WED	Radio Anniversary, Internal Examination S1MBA		Radio Anniversary	
2	THU	Final Project Review for MCA 2017 pass out batch for MCA 2017 pass out batch			
3	FRI				
4	SAT				
5	SUN				
6	MON	Commencement of S3 MCA classes			
7	TUE				
8	WED	Commencement of S3MBA University Examination			
9	THU	Pranah 2K17		Pranah 2K17	
10	FRI	Pranah 2K17		Pranah 2K17	
11	SAT	Second Saturday		Second Saturday	
12	SUN				
13	MON	Commencement of University Project & Course viva of MCA 2014-			

		17 & 2015-17 L.E batch.			
14	TUE				
15	WED				
16	THU				
17	FRI				
18	SAT				
19	SUN				
20	MON				
21	TUE	Science popularization programme-"Two Day Workshop on Sciencetoons as a Medium of Science Learning" sponsored by KSCSTE			
22	WED	Science popularization programme-"Two Day Workshop on Sciencetoons as a Medium of Science Learning" sponsored by KSCSTE			
23	THU				
24	FRI	GN Ramachandran Science Club Seminar "Systems Approach in Biotechnology" by Dr. M.V R K Sharma, Scientist, CFTRI Mysore			
25	SAT				
26	SUN				
27	MON	Industrial Visit, S1 FT& QA		S3 Bioscience Internal exams	

28	TUE			S3 Bioscience Internal exams	
29	WED			S3 Bioscience Internal exams	
30	THU			S3 Bioscience Internal exams	

December 2017

Date	Day	Activity for MBA 1 st & 3 rd Semester, MCA 1 st 3 rd and 5 th semester regular & lateral entry and Bioscience MSc 1 st and 2 nd semester	Working Days	Activity for MBA 2 nd & 4 th Semester, MCA 2 nd 4 th & 6 th semester regular & lateral entry and Bioscience MSc 3 rd & 4 th semester	Working Days
1	FRI				
2	SAT	Nabi Dinam		Nabi Dinam	
3	SUN				
4	MON				
5	TUE				
6	WED				
7	THU	Training Programme in Cake Baking. Inagural ceremony of 2 day KSCSTE Sponsored Workshop on “Python Programming”			
8	FRI	Training Programme in Cake Baking. KSCSTE Sponsored Workshop on “Python Programming”.			
9	SAT	Second Saturday		Second Saturday	
10	SUN				
11	MON	Commencement of First			

		Internal Exam of S3 MCA			
12	TUE			S3 FT&QA Practical model exam	
13	WED				
14	THU				
15	FRI	Training at SAMI labs, Bangalore- PMST students 15 th - 22 nd December MACFAST NSS Unit and Swachh Bharath Unit, Forestry Club Jointly Participated in “Punyam Poonkavanam” organized by Kerala Police			
16	SAT				
17	SUN				
18	MON				
19	TUE			MACFAST NSS Unit and Swachh Bharath Unit, Forestry Club Jointly Participated in “Punyam Poonkavanam” organized by Kerala Police	
20	WED				
21	THU				

22	FRI	Christmas celebrations		Christmas celebrations	
23	SAT	Christmas Holidays		Christmas Holidays	
24	SUN	Christmas Holidays		Christmas Holidays	
25	MON	Christmas Holidays		Christmas Holidays	
26	TUE	Christmas Holidays		Christmas Holidays	
27	WED	Christmas Holidays		Christmas Holidays	
28	THU	Christmas Holidays		Christmas Holidays	
29	FRI	Christmas Holidays		Christmas Holidays	
30	SAT	Christmas Holidays		Christmas Holidays	
31	SUN	Christmas Holidays		Christmas Holidays	

January 2018

Date	Day	Activity for MBA 1 st & 3 rd Semester, MCA 1 st 3 rd and 5 th semester regular & lateral entry and Bioscience MSc 1 st and 2 nd semester	Working Days	Activity for MBA 2 nd & 4 th Semester, MCA 2 nd 4 th & 6 th semester regular & lateral entry and Bioscience MSc 3 rd & 4 th semester	Working Days
1	MON	New Year		New Year	
2	TUE	Mannam Jayanthi		Mannam Jayanthi	
3	WED				
4	THU			S4 Biosciences classes commences	
5	FRI	One Month Certificate Course in Industrial Microbiology organized jointly by Department of Biotechnology, BOKU - University of Natural Resources and Applied Life Sciences, Vienna and School of Biosciences MACFAST, 5 th January to 5 th February , Commencement of second internal examination S1 MBA			
6	SAT				
7	SUN				
8	MON	S1 Biosciences internal exam. First Internal Exam for		Workshop on Research Methodology by Dr. Michael Sauer, Department of Biotechnology,	

		MCA 2016-2019 batch/ Second Internal Exam for MCA 2017-2019 & 2017- 2020 batch		BOKU University of Natural Resources and Applied Life Sciences, Vienna.	
9	TUE	S1 Biosciences internal exam			
10	WED	S1 Biosciences internal exam, End of 2nd Internal examination of S2 MBA			
11	THU	S1 Biosciences internal exam		Technitrous 2k 18	
12	FRI			Technitrous 2k 18	
13	SAT	Second Saturday		Second Saturday	
14	SUN				
15	MON				
16	TUE			S3 FT&QA University practical exam	
17	WED			S3 FT&QA University practical exam	
18	THU				
19	FRI				
20	SAT				
21	SUN				
22	MON				
23	TUE				

24	WED				
25	THU				
26	FRI	Republic Day		Republic Day	
27	SAT				
28	SUN				
29	MON			S4 Biosciences internal exam	
30	TUE			S4 Biosciences internal exam	
31	WED			S4 Biosciences internal exam	

February 2018

Date	Day	Activity for MBA 1 st & 3 rd Semester, MCA 1 st 3 rd and 5 th semester regular & lateral entry and Bioscience MSc 1 st and 2 nd semester	Working Days	Activity for MBA 2 nd & 4 th Semester, MCA 2 nd 4 th & 6 th semester regular & lateral entry and Bioscience MSc 3 rd & 4 th semester	Working Days
1	THU	GN Ramachandran Science Club Seminar on “The Spindle Assembly Checkpoint: With Great Power Comes Great Responsiveness “by Prof. Jonathan Pines FRS, Head of the Division of Cancer Biology at the Institute of Cancer Research, London			
2	FRI				
3	SAT				
4	SUN				
5	MON				
6	TUE				
7	WED				
8	THU				
9	FRI				
10	SAT	Second Saturday		Second Saturday	
11	SUN				
12	MON				
13	TUE	Shivrathri		Shivrathri	

14	WED			Project review meeting S4 MBA	
15	THU			Project review meeting S4 MBA	
16	FRI	Classes of MCA 2016-2019,2017-2019 and 2017-2020 batches ends.		Project review meeting S4 MBA	
17	SAT				
18	SUN				
19	MON				
20	TUE	Commencement of University Exam for S1MBA			
21	WED	S1 Bioscience University exam			
22	THU				
23	FRI	S1 Bioscience University exam			
24	SAT				
25	SUN				
26	MON	S1 Bioscience University exam. Model Examination for MCA 2016-2019,2017-2019 and 2017-2020 batches. Kerala State Council for Science Technology and Environment sponsored		National Science Day Celebrations 2018-KSCSTE sponsored Seminar on Scientific Innovations for Sustainable Development	

		Seminar on “Scientific Innovations for Sustainable Development” organized in connection with the National Science Day Celebrations			
27	TUE	A program on “Women Empowerment”, one day Vanitha Camp jointly organized by MACFAST Women Cell and M.G university			
28	WED	S1 Bioscience University exam			

March 2018

Date	Day	Activity for MBA 1 st & 3 rd Semester, MCA 1 st 3 rd and 5 th semester regular & lateral entry and Bioscience MSc 1 st and 2 nd semester	Working Days	Activity for MBA 2 nd & 4 th Semester, MCA 2 nd 4 th & 6 th semester regular & lateral entry and Bioscience MSc 3 rd & 4 th semester	Working Days
1	THU			S3 BC university Practical exam	
2	FRI			S3 BC university Practical exam	
3	SAT			End of S4 MBA Final Project	
4	SUN				
5	MON			Reopening of Classes for S4MBA	
6	TUE				
7	WED	Training programme in chocolate making			
8	THU	Training programme in chocolate making			
9	FRI	End of S1MBA University Examination			
10	SAT	Second Saturday Promotion of Healthy Food Habits at Agro Food Pro at Thekkinkadu Maidanam, Thrissur organized by the School of Biosciences.		Second Saturday	

11	SUN				
12	MON			Reopening of S2 MBA	
13	TUE			Promotion of Healthy Food Habits at Agro Food Pro at Thekkinkadu Maidanam, Thrissur organized by the School of Biosciences.	
14	WED				
15	THU				
16	FRI				
17	SAT				
18	SUN				
19	MON			MII for S2 MBA,	
20	TUE			MII for S2 MBA	
21	WED			MII for S2 MBA, Research Methodology Workshop for S4 MBA	
22	THU	S1 FT&QA University practical exam		MII for S2 MBA MII for S2 MBA, Research Methodology Workshop for S4 MBA	
23	FRI	S1 FT&QA University practical exam		MII for S2 MBA, Research Methodology Workshop for S4	

				MBA	
24	SAT	Holidays		MII for S2 MBA	
25	SUN	Holidays		Holidays	
26	MON	Holidays		Holidays	
27	TUE	Holidays		Holidays	
28	WED	Holidays		Holidays	
29	THU	Maundy Thursday		Maundy Thursday	
30	FRI	Good Friday		Good Friday	
31	SAT	Holidays		Holidays	

April 2018

Date	Day	Activity for MBA 1 st & 3 rd Semester, MCA 1 st 3 rd and 5 th semester regular & lateral entry and Bioscience MSc 1 st and 2 nd semester	Working Days	Activity for MBA 2 rd & 4 th Semester, MCA 2 nd 4 th & 6 th semester regular & lateral entry and Bioscience MSc 3 rd & 4 th semester	Working Days
1	SUN	Easter		Easter	
2	MON	Holidays MII programme of MCA 2015-2018 starts at CDAC, Trivandrum.		Holidays	
3	TUE				
4	WED				
5	THU			Draft Report Presentation S4 MBA	
6	FRI				
7	SAT	Interaction with Dr. Majeed, Founder & Managing Director, SAMI labs, Bangalore			
8	SUN				
9	MON	Inaguration of 2 day Workshop on “Python Programming”.			
10	TUE	Workshop on “Python Programming”.			
11	WED	S1 BC University practical exam			

12	THU	S1 BC University practical exam			
13	FRI	S1 BINF University practical exam. MII programme of MCA 2015-2018 ends..			
14	SAT	Vishu, Second Saturday		Vishu, Second Saturday	
15	SUN				
16	MON			1st Internal examination of S2 & S4 MBA	
17	TUE				
18	WED				
19	THU				
20	FRI			Aptitude Training for S2 MBA	
21	SAT			Aptitude Training for S2 MBA	
22	SUN				
23	MON				
24	TUE	S1 BT University practical exam			
25	WED	S1 BT University practical exam. National conference on digital transformation in India Prospects and		National Conference on Digital Transformation	

		challenges - Organized by Department Of Management studies.			
26	THU	S1 PBT University practical exam. Commencement of S4 MCA(Regular &L.E) university exam.		Final dissertation Submission S4 MBA	
27	FRI	S1 PMST University practical exam			
28	SAT				
29	SUN				
30	MON				

May 2018

Date	Day	Activity for MBA 1 st & 3 rd Semester, MCA 1 st 3 rd and 5 th semester regular & lateral entry and Bioscience MSc 1 st and 2 nd semester	Working Days	Activity for MBA 2 rd & 4 th Semester, MCA 2 nd 4 th & 6 th semester regular & lateral entry and Bioscience MSc 3 rd & 4 th semester	Working Days
1	TUE	May Day		May Day	
2	WED				
3	THU				
4	FRI				
5	SAT				
6	SUN				
7	MON	Orientation Programme of MCA 202017-2020 batch.			
8	TUE	S2 Biosciences Internal exam		Commencement of of second semester of MCA 202017-2020 batch.	
9	WED	S2 Biosciences Internal exam			
10	THU	S2 Biosciences Internal exam			
11	FRI	S2 Biosciences Internal exam			
12	SAT	Second Saturday		Second Saturday	
13	SUN				
14	MON			MBA S2 Second Internal examination	

15	TUE	MBA KMAT Coaching class (1st session)			
16	WED				
17	THU	Workshop on Medicinal Plants Conservation, cultivation and value addition sponsored by State Medicinal Plants Board			
18	FRI	Workshop on Medicinal Plants Conservation, cultivation and value addition		Orientation for MBA S3 specialization	
19	SAT				
20	SUN				
21	MON	Commencement of MBA S3 class (2017-19)		Coaching Assessment Test of S2 MBA Supplementary (S4 2016-18)	
22	TUE				
23	WED	MBA Zero Semester Induction Programme (2018-20) - Batch 1		S4 Biosciences University exam Commences	
24	THU				
25	FRI	Dhakshina 2018			
26	SAT				
27	SUN				
28	MON	MII programme of MCA 2016-2018 starts at CDAC,			

		Trivandrum.			
29	TUE				
30	WED				
31	THU	GN Ramachandran Science Club Seminar “Emerging foods and their safety concerns “ by Dr. Asha Martin, Head, Dept. of Food Safety & Analytical QualityControl Laboratory, CFTRI, Mysore.			

June 2018

Date	Day	Activity for MBA 1 st & 3 rd Semester, MCA 1 st 3 rd and 5 th semester regular & lateral entry and Bioscience MSc 1 st and 2 nd semester	Working Days	Activity for MBA 2 nd & 4 th Semester, MCA 2 nd 4 th & 6 th semester regular & lateral entry and Bioscience MSc 3 rd & 4 th semester	Working Days
1	FRI				
2	SAT				
3	SUN				
4	MON	S2 Biosciences- Industrial visit 4 th - 10 th June		Resume S4 MBA Classes (2016-18)	
5	TUE				
6	WED				
7	THU			Submission of Draft Report of MBA Summer Project (Spiral Bound)	
8	FRI	MII programme of MCA 2016-2018 ends.			
9	SAT				
10	SUN	Second Saturday		Second Saturday	
11	MON				
12	TUE				
13	WED				
14	THU				
15	FRI	Ramsan		Ramsan	

16	SAT				
17	SUN				
18	MON				
19	TUE				
20	WED				
21	THU				
22	FRI				
23	SAT				
24	SUN				
25	MON	S2 Biosciences model exam			
26	TUE	S2 Biosciences model exam			
27	WED	S2 Biosciences model exam			
28	THU	S2 Biosciences model exam, MBA Zero Semester Induction Programme (2018-20)- Batch 2		S4 FT&QA university practical exam	
29	FRI			S4 FT&QA university practical exam	
30	SAT				