



Yearly Status Report - 2018-2019

Part A

Data of the Institution

Part A	
Data of the Institution	
1. Name of the Institution	MANGALAM COLLEGE OF ENGINEERING
Name of the head of the Institution	Dr. MANOJ GEORGE
Designation	Principal
Does the Institution function from own campus	Yes
Phone no/Alternate Phone no.	04812533711
Mobile no.	9895169510
Registered Email	principal@mangalam.in
Alternate Email	info@mangalam.in
Address	Mangalam Campus, Mangalam Hills, Vettimukal P.O., Ettumanoor
City/Town	KOTTAYAM
State/UT	Kerala
Pincode	686631

2. Institutional Status					
Affiliated / Constituent		Affiliated			
Type of Institution		Co-education			
Location		Rural			
Financial Status		Self financed			
Name of the IQAC co-ordinator/Director		AJIT JOSEPH			
Phone no/Alternate Phone no.		04812533722			
Mobile no.		9495108681			
Registered Email		iqac@mangalam.in			
Alternate Email		ajit.joseph@mangalam.in			
3. Website Address					
Web-link of the AQAR: (Previous Academic Year)		http://www.mangalam.ac.in/mlmce/iqac/AQAR2017_18.pdf			
4. Whether Academic Calendar prepared during the year		Yes			
if yes,whether it is uploaded in the institutional website: Weblink :		http://www.mangalam.ac.in/mlmce/iqac/academic calender 2018 2019.pdf			
5. Accrediation Details					
Cycle	Grade	CGPA	Year of Accrediation	Validity	
				Period From	Period To
1	B+	2.52	2017	22-Feb-2017	21-Feb-2022
6. Date of Establishment of IQAC			15-Jun-2015		
7. Internal Quality Assurance System					
Quality initiatives by IQAC during the year for promoting quality culture					
Item /Title of the quality initiative by IQAC		Date & Duration		Number of participants/ beneficiaries	
KSEBA 10TH SEMINAR SERIES		07-Mar-2019		20	

	1	
SS12 IEEE INTERNATIONAL INNOVATION: project competition And maker fair 2018	14-Aug-2018 1	150
'National Science Day 2019	26-Feb-2019 1	150
FDP on IT tools for Research & Academic	15-Jan-2019 3	35
Strategies for a Successful Career in Science, Engineering, and Technology	04-Feb-2019 1	144
SEND-OFF CEREMONY FOR MANGALAM SCHOLARS PROCEEDING TO JAPAN	14-Sep-2018 1	1700
INDUCTION PROGRAM FOR FIRST YEARS	01-Aug-2018 1	1000
BRIDGE CLASS FOR FIRST YEARS	23-Jul-2018 7	290
International Conference on Computational Intelligence and Digital Technology (ICCIDT -2K19)	11-Apr-2019 2	420
International Multi-Conference on Computing, Communication, Electrical & Nanotechnology (I2CN-2K19)	25-Apr-2019 2	250
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8. Provide the list of funds by Central/ State Government- UGC/CSIR/DST/DBT/ICMR/TEQIP/World Bank/CPE of UGC etc.

Institution/Department/Faculty	Scheme	Funding Agency	Year of award with duration	Amount
MLMCE	Major projects	KSCSTE 2018 (File No: C26/201/INNOVATE/2018/KSCSTE)	2018 180	15000
MLMCE	Industry sponsored	Kerala State IT Infrastructure Ltd. (KSITIL) to setup Telepresence Infrastructure for Technology Enabled Industry Supported Skills Delivery	2018 180	2500000

		Platform Kerala (SDPK)		
MLMCE	Projects sponsored by the University/ College	IEEE Photonics Society for IEEE Photonics Society Student Chapter USD 2,500 (INR. 1,75,000) -	2019 1	175000
MLMCE	Students research projects (other than compulsory by the University)	Rebate of INR.5,600 for Student Branch from IEEE headquarters USA	2019 180	5600
MLMCE	Any other(Specify)	KSCSTE, for National Technology Day 2019 Celebrations	2019 1	20000
MLMCE	Any other(Specify)	KSCSTE for National Science Day 2019 Celebrations	2019 1	10000
MLMCE	Any other(Specify)	Travel Grant & Fellowship IEEE Photonics Society to attend the IEEE Photonics Conference scheduled at San Antonio, Texas, USA (INR. 7 lakhs	2019 10	700000
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9. Whether composition of IQAC as per latest NAAC guidelines:	Yes
Upload latest notification of formation of IQAC	View File
10. Number of IQAC meetings held during the year :	4
The minutes of IQAC meeting and compliances to the decisions have been uploaded on the institutional website	Yes
Upload the minutes of meeting and action taken report	View File

11. Whether IQAC received funding from any of the funding agency to support its activities during the year?	No
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12. Significant contributions made by IQAC during the current year(maximum five bullets)

? IQAC stand as a driving force to initiate various academic and nonacademic activities in the college ? IQAC members comprising of principal HODs and senior members communicate with various issues and implement new strategic ideas. ? Regular monitoring and auditing of each subject course diaries via academic auditing and by taking proper feedback. ? Ensuring and Enhancing industry interaction by promoting internships and industrial visits ? Regular checking of University and internal exams by statistical analysis and implementing proper remedial measures to correct it on time. ? Conducting special coaching classes and seminars for high end students to achieve cores in competitive exams like GATE,UPSC,PSUs,IES..

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13. Plan of action chalked out by the IQAC in the beginning of the academic year towards Quality Enhancement and outcome achieved by the end of the academic year

Plan of Action	Achivements/Outcomes
Plan to conduct National and international conferences in departments	Conducted IC2N2K19 by EEE and ECE department
Plan to take feedback from stakeholders	Feedback is taken from students, parents, alumni and other stakeholders on quality related matters for further improvement
Plan to monitor results of students	Extensive remedial classes catering all students is carried on by categorising students into three categories based on their results and helped them in improving their individual results effectively.
Encourage faculty to take up research	New faculties have applied for PhD.
Introduce more ICT into teaching learning process	New courses have used ICT.
Plan to arrange social activities to improve human value	During national disaster flood students and faculties of Mangalam college worked hand in hand to help affected people.
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14. Whether AQAR was placed before statutory body ?	Yes
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Name of Statutory Body	Meeting Date
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15. Whether NAAC/or any other accredited body(s) visited IQAC or interacted with it to assess the functioning ?	No
16. Whether institutional data submitted to AISHE:	Yes
Year of Submission	2019
Date of Submission	06-Apr-2019
17. Does the Institution have Management Information System ?	Yes
If yes, give a brief description and a list of modules currently operational (maximum 500 words)	MLMCE has developed software Elive for managing and function of all academic related matters, whereas all official related information mangalam domain mails are used by all faculties. ? The outcome based learning is smoothened by proper functioning of software system which include regular attendance entry, assignment mark entry , class test mark enter, sessional calculation and attendance calculation. ? The admission details and admission numbers of all students are available in the software. The attendance of students can be monitored on a daily basis and feedback can be send to parents ? The Fingerprint attendance machine is linked with elive software system , hence swipe report of staff and salary of staff is connected to this system.

Part B

CRITERION I – CURRICULAR ASPECTS

1.1 – Curriculum Planning and Implementation

1.1.1 – Institution has the mechanism for well planned curriculum delivery and documentation. Explain in 500 words

We adopt the curriculum overview provided by the APJ Abdul Kalam University. The institution has developed an effective implementation of curriculum. HOD meetings are held once in a week to discuss the action plans of each department. The academic calendar is prepared with the reference of university academic schedule and the requirements at department levels. In addition to academic calendar, co- curricular and extracurricular calendar is prepared by each department which consists the department level programs like workshops, add-on courses and industrial visits to execute it. At the commencement of each academic semester, every faculty members prepare course plan which contains all

plans like tutorial, assignments, content beyond etc.. In addition to traditional lectures and seminars, teachers use ICT in class rooms like online simulators, Secretive (Quiz). All departments bridge courses in order to make the delivery of curriculum more effective. Also all departments conduct remedial classes for slow learners. Minimum two internal assessments are done.

The institution conducts minimum two academic audits which is monitored by IQAC. Each course in charges maintains course diary and course file. The course diary consists the course plan and course coverage, tutorial plan and coverage, assignment plan and its coverage, student's attendance and internal assessment marks. The course file includes the academic calendar, syllabus, previous year question papers, Question bank, Internal assessment questions, solutions and sample scripts of three students, assignment samples, ICT supported documents and course eligibility report generated from University portal. All departments conduct minimum two class committee and course committee in a semester to evaluate the academic status of all classes. The constitution of class committee is Head of the department, Committee convenor, Class teachers, all course in charges and student representatives. The constitution of course committee is senior subject expert, course in charges and student representatives. For an effective delivery of curriculum the faculty members have to attend faculty development programs and workshops in each semester. In addition, special guest lectures and seminars are conducted by the expert from leading industries to fill the curriculum gap. These all activities are monitored by heads of the department and give the report to higher level.

1.1.2 – Certificate/ Diploma Courses introduced during the academic year

Certificate	Diploma Courses	Dates of Introduction	Duration	Focus on employ ability/entreprene urship	Skill Development
HVAC	Nil	16/09/2018	5	Employabil ity	Designing
CAD	Nil	27/08/2018	5	Employabil ity	Designing
Proteus	Nil	08/09/2018	5	Employabil ity	Designing
LaTeX	Nil	08/09/2018	5	Employabil ity	Designing
CAD	Nil	08/09/2018	5	Employabil ity	Designing
ETAP	Nil	02/02/2019	5	Employabil ity	Designing
HDL Design	Nil	22/01/2019	5	Employabil ity	Designing
2D to 3D IC-change in trends in se miconductor IC design	Nil	06/11/2018	5	Employabil ity	Designing
Course on Autocad 2D 3D	Nil	12/11/2018	5	Employabil ity	Designing
Course on STAAD Pro	Nil	22/08/2018	5	Employabil ity	Designing

Certification of Java	Nil	02/02/2019	5	Employability	Designing
Certification of PHP	Nil	Nil	5	Employability	Designing

1.2 – Academic Flexibility

1.2.1 – New programmes/courses introduced during the academic year

Programme/Course	Programme Specialization	Dates of Introduction
No Data Entered/Not Applicable !!!		
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1.2.2 – Programmes in which Choice Based Credit System (CBCS)/Elective course system implemented at the affiliated Colleges (if applicable) during the academic year.

Name of programmes adopting CBCS	Programme Specialization	Date of implementation of CBCS/Elective Course System
BTech	CSE Soft Computing	01/08/2018
BTech	CSE Logic for Computer Science	01/08/2018
BTech	CSE Bio Informatics	01/08/2018
BTech	CSE Machine Learning	01/08/2018
BTech	CSE Mobile Computing	01/01/2019
BTech	CSE Web Technologies	01/01/2019
BTech	CSE Artificial Intelligence	01/01/2019
BTech	CSE Principles of Information Security	01/01/2019
Mtech	CSE Web Service	03/09/2018
Mtech	CSE Distributed Computing System	03/09/2018

1.2.3 – Students enrolled in Certificate/ Diploma Courses introduced during the year

	Certificate	Diploma Course
Number of Students	319	Nil

1.3 – Curriculum Enrichment

1.3.1 – Value-added courses imparting transferable and life skills offered during the year

Value Added Courses	Date of Introduction	Number of Students Enrolled
Strategies for a successful career in Science Engineering and Technology	04/02/2019	144
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1.3.2 – Field Projects / Internships under taken during the year

Project/Programme Title	Programme Specialization	No. of students enrolled for Field Projects / Internships
BTech	INDUSTRY INTERNSHIP	219
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1.4 – Feedback System

1.4.1 – Whether structured feedback received from all the stakeholders.

Students	Yes
Teachers	Yes
Employers	No
Alumni	Yes
Parents	Yes

1.4.2 – How the feedback obtained is being analyzed and utilized for overall development of the institution?
(maximum 500 words)

Feedback Obtained

The class committee meetings that are held periodically provide a platform for the students to discuss academic and non-academic issues. Parent-teacher meetings are held periodically so as to improve overall development of students. Their suggestions are incorporated in improving the functioning of classes. The alumni surveys are conducted to give constructive suggestions in improving the mode of teaching learning process. The valuable suggestions from industrial personnel during meetings/industrial visits, in improving the curriculum needs to match with the needs of the industry are duly communicated to the IQAC followed by DQAC and henceforth execute it by means of seminars and extra courses. The institute also collects feedback from the recruiters on the performance of the students. This enables the institution to understand what industry expects from the students and act accordingly and hence help in building a brilliant youth for society.

CRITERION II – TEACHING- LEARNING AND EVALUATION

2.1 – Student Enrolment and Profile

2.1.1 – Demand Ratio during the year

Name of the Programme	Programme Specialization	Number of seats available	Number of Application received	Students Enrolled
Mtech	EC	18	2	2
Mtech	ME	18	10	10
Mtech	CE	18	5	4
Mtech	CSE	18	25	3
MBA	MBA	90	150	87
BTech	ELECTRICAL AND ELECTRONICS ENGINEERING	60	32	20
BTech	ELECTRONICS AND COMMUNICATION ENGINEERING	90	37	33
BTech	MECHANICAL ENGINEERING	120	78	75
BTech	CIVIL ENGINEERING	120	100	74
BTech	COMPUTER SCIENCE ENGINEERING	120	163	88

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2.2 – Catering to Student Diversity

2.2.1 – Student - Full time teacher ratio (current year data)

Year	Number of students enrolled in the institution (UG)	Number of students enrolled in the institution (PG)	Number of fulltime teachers available in the institution teaching only UG courses	Number of fulltime teachers available in the institution teaching only PG courses	Number of teachers teaching both UG and PG courses
2018	290	109	96	13	22

2.3 – Teaching - Learning Process

2.3.1 – Percentage of teachers using ICT for effective teaching with Learning Management Systems (LMS), E-learning resources etc. (current year data)

Number of Teachers on Roll	Number of teachers using ICT (LMS, e-Resources)	ICT Tools and resources available	Number of ICT enabled Classrooms	Number of smart classrooms	E-resources and techniques used
131	59	13	49	3	2

[View File of ICT Tools and resources](#)

[View File of E-resources and techniques used](#)

2.3.2 – Students mentoring system available in the institution? Give details. (maximum 500 words)

The students mentoring system is very much active in the institute in the view of overall development of an individual apart from imparting engineering knowledge. The system involves one tutor for 20 students and the issues of the students will be taken care of by the tutor in its best possible extent. There is timely counseling sessions in which personal problems and academic difficulties of students are encountered. The system provides immense mental support to students to cope up with academic pressure. Students are also equipped to face competitive exams like GATE, Civil Services, ESE etc. by the guidance and support of mentors they are assigned to. Students are also motivated to go for higher studies and research in various fields of engineering. Students personal and academic data's are available in the form of grade cards provided through which tutor is able to track the performance of students. There is an extended support from principal and higher officials of the college in nonacademic issues and financial assistance. Regular meetings are conducted by the tutors and staff advisors in which students actively participate and all the issues are discussed in productive manner. The tutor keeps the record of each meeting and issues are forwarded to the concerned authorities based on the intensity and scope of solutions.

Number of students enrolled in the institution	Number of fulltime teachers	Mentor : Mentee Ratio
1496	131	1:11

2.4 – Teacher Profile and Quality

2.4.1 – Number of full time teachers appointed during the year

No. of sanctioned positions	No. of filled positions	Vacant positions	Positions filled during the current year	No. of faculty with Ph.D
131	123	8	8	12

2.4.2 – Honours and recognition received by teachers (received awards, recognition, fellowships at State, National, International level from Government, recognised bodies during the year)

Year of Award	Name of full time teachers receiving awards from state level, national level, international level	Designation	Name of the award, fellowship, received from Government or recognized bodies
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2018	Dr. T D Subash	Professor	Fellowship from Govt.of Japan
2018	Dr. T D Subash	Professor	Best Electrical Engineering Project Award
2019	Dr. T D Subash	Professor	Largest Membership increase Award-IEEE Photonics society Madras India chapter
2019	Dr. T D Subash	Professor	Fellowship from IEEE Photonics Society.USA
2019	Dr. T D Subash	Professor	ICT Fellowship
2018	BENPHIL C MATHEW	Assistant Professor	SOPC for NPTEL
2018	Shoma Mani	Assistant Professor	NPTEL
2018	Ms.Neena Joseph	Assistant Professor	UGC NET
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2.5 – Evaluation Process and Reforms

2.5.1 – Number of days from the date of semester-end/ year- end examination till the declaration of results during the year

Programme Name	Programme Code	Semester/ year	Last date of the last semester-end/ year-end examination	Date of declaration of results of semester-end/ year- end examination
MBA	MLM	T6	30/05/2018	17/10/2018
Mtech	MLM	S4	03/07/2019	15/10/2019
Mtech	MLM	S2	03/07/2019	15/10/2019
BTech	MLM	S2	03/07/2019	24/08/2019
BTech	MLM	S4	17/06/2019	15/08/2019
BTech	MLM	S6	16/06/2019	30/07/2019
BTech	MLM	S8	06/06/2019	17/07/2019
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2.5.2 – Reforms initiated on Continuous Internal Evaluation(CIE) system at the institutional level (250 words)

Continuous Evaluation for theory courses Before the university final examinations a student has to appear for two class tests. Other than these each course in charge conduct examination for each module. Credit four course conduct tutorials every week and the marks for the same are taken for continuous internal evaluation. Continuous Evaluation for Practical courses University rules the practical courses to have a split up of 70 for continuous evaluation and 30 for final lab exam. Continuous evaluation is conducted for each experiment and the mark is entered in the course diary. Any student can view the marks at any point of time. Each experiment evaluates experimental setup, output obtained, results recorded and the viva. Continuous Evaluation

for Project and Seminar The seminar and projects are conducted under the guidance and evaluation of a panel set up at each department. The panel conducts frequent presentations, evaluates them and records these marks which are finally added up to evaluate the course on seminar and project.

2.5.3 – Academic calendar prepared and adhered for conduct of Examination and other related matters (250 words)

Every year or every semester follows an academic calendar which is prepared by the CAC. The calendar details each and every important occasion and exams which help the teachers, students and parents to properly plan their activities. Since all the departments in the college function according to this calendar every work is synchronized. This academic year we had floods in the month of August. This delayed the calendar by 12 working days. Thus the works got postponed. The effect of the floods had not taken more than 1 month to set back into the original academic Calendar. The first series examination got delayed by a week but the second series examination was on schedule. Due to the floods the university exams were postponed for a few days. Other than the issues related to flood, the college had adhered to the academic calendar completely

2.6 – Student Performance and Learning Outcomes

2.6.1 – Program outcomes, program specific outcomes and course outcomes for all programs offered by the institution are stated and displayed in website of the institution (to provide the weblink)

<http://www.mangalam.ac.in/mlmce/igac/>

2.6.2 – Pass percentage of students

Programme Code	Programme Name	Programme Specialization	Number of students appeared in the final year examination	Number of students passed in final year examination	Pass Percentage
B.Tech 2015	BTech	COMPUTER SCIENCE ENGINEERING	81	42	51.85
B.Tech 2015	BTech	CIVIL ENGINEERING	77	32	41.55
B.Tech 2015	BTech	MECHANICAL ENGINEERING	95	25	26.32
B.Tech 2015	BTech	ELECTRONICS AND COMMUNICATION ENGINEERING	42	32	76.19
B.Tech 2015	BTech	ELECTRICAL AND ELECTRONICS ENGINEERING	26	11	42.3
MBA 2017	MBA	MBA	57	32	56.14

[View File](#)

2.7 – Student Satisfaction Survey

2.7.1 – Student Satisfaction Survey (SSS) on overall institutional performance (Institution may design the questionnaire) (results and details be provided as weblink)

<http://www.mangalam.ac.in/mlmce/igac/>

CRITERION III – RESEARCH, INNOVATIONS AND EXTENSION**3.1 – Resource Mobilization for Research**

3.1.1 – Research funds sanctioned and received from various agencies, industry and other organisations

Nature of the Project	Duration	Name of the funding agency	Total grant sanctioned	Amount received during the year
Any Other (Specify)	2018	ITC India fellowship to attend 3rd International Test Conference India (ITC India) held at Leela Palace, Bangalore, India INR.60,000	0.6	0.4
Major Projects	365	KSCSTE 2018 (File No: C26/201/INNOVATE/2018/KSCSTE)	0.15	0.15
Industry sponsored Projects	1825	Kerala State IT Infrastrucure Ltd. (KSITIL) to setup Telepresence Infrastructure for Technology Enabled Industry Supported Skills Delivery Platform Kerala (SDPK)	25	20
Projects sponsored by the University	365	IEEE Photonics Society for IEEE Photonics Society Student Chapter USD 2,500 (INR. 1,75,000) -	1.75	1.63
Students Research Projects (Other than compulsory by the University)	365	Rebate of INR.5,600 for Student Branch from IEEE headquarters USA	0.56	0.05
Any Other (Specify)	14	KSCSTE, for National Technology Day 2019 Celebrations	0.2	0.2

Any Other (Specify)	14	KSCSTE for National Science Day 2019 Celebrations	0.1	0.1
Any Other (Specify)	365	Travel Grant Fellowship IEEE Photonics Society to attend the IEEE Photonics Conference scheduled at San Antonio, Texas, USA (INR. 7 lakhs)	7	3.25
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3.2 – Innovation Ecosystem

3.2.1 – Workshops/Seminars Conducted on Intellectual Property Rights (IPR) and Industry-Academia Innovative practices during the year

Title of workshop/seminar	Name of the Dept.	Date
Hands-on session on Non-destructive testing	Mechanical department	02/11/2018
Advanced techniques in manufacturing	Mechanical department	21/03/2019
International conference on sustainable innovations in civil and mechanical	Mechanical department	16/05/2019
CNC Machine design and fabrication	Mechanical department	15/03/2019
National Science day	ECE Department	26/02/2019
Strategies for a Successful Career in science, Engineering and Technology	ECE AND EEE	04/02/2019
Soft skill Enhancement workshop for Polytechnic students	ECE	31/05/2019
Robotics and Drones	ECE	06/05/2019
Structural Synthesis of Ships Civil Engineering	Civil department	19/08/2018
Sustainable Aspects in Civil Engineering	Civil department	16/05/2019
Workshop on AUTO CADD	Civil department	27/08/2018
One day work shop on structural drawings using AUTO CADD	Civil department	25/03/2019
One Day workshop on mix	Civil department	16/04/2019

design of concrete		
Mechanical rotating machines in oil and Gas industry	Mechanical department	24/10/2018
International Conference on computing, Communication,Electrical and Nanotechnology(I2CN2K19)	ECE AND EEE	25/04/2019
SS12 IEEE International Innovation:Project Zonal Level Competition and Maker Fair 2018	EEE	14/08/2019
Seminar on Trust Yourself	EEE	12/09/2019
International Seminar on Strategies for Successful Career I Science and Technology	ECE AND EEE	04/02/2019

3.2.2 – Awards for Innovation won by Institution/Teachers/Research scholars/Students during the year

Title of the innovation	Name of Awardee	Awarding Agency	Date of award	Category
Intelligent Resource finder for ESI hospitals	1.Anandhu Sreenivasan 2.Jobin Joy 3.Vishnu Prasad 4.Vinayakan G	MHRD	03/03/2019	HACKATHON
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3.2.3 – No. of Incubation centre created, start-ups incubated on campus during the year

Incubation Center	Name	Sponsored By	Name of the Start-up	Nature of Start-up	Date of Commencement
No Data Entered/Not Applicable !!!					
No file uploaded.					

3.3 – Research Publications and Awards

3.3.1 – Incentive to the teachers who receive recognition/awards

State	National	International
20	NIL	NIL

3.3.2 – Ph. Ds awarded during the year (applicable for PG College, Research Center)

Name of the Department	Number of PhD's Awarded
NIL	Nil

3.3.3 – Research Publications in the Journals notified on UGC website during the year

Type	Department	Number of Publication	Average Impact Factor (if any)
International	Department of Mechanical	3	0
International	Dept. of ECE,	4	3.4
International	MBA	2	0

International	Dept. of EEE	1	0
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3.3.4 – Books and Chapters in edited Volumes / Books published, and papers in National/International Conference Proceedings per Teacher during the year

Department	Number of Publication
CSE	48
ME	41
ECE	32
EEE	11
MBA	4
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3.3.5 – Bibliometrics of the publications during the last Academic year based on average citation index in Scopus/ Web of Science or PubMed/ Indian Citation Index

Title of the Paper	Name of Author	Title of journal	Year of publication	Citation Index	Institutional affiliation as mentioned in the publication	Number of citations excluding self citation
Combined Objective Optimization for vehicle routing Using Genetic	Dr.Nidhish Mathew Nidhiry	Science Direct	2018	0	Department of Mechanical Engineering, Mangalam College of Engineering, Ettumanoor, 686631, India	2
Experimental Analysis and Effects of Gasoline as an Additive in Compression Ignition Engine	Benphil C Mathew	International Journal of Innovative Technology and Exploring Engineering (IJITEE)	2019	0	Kerala Technological University	1
Supply Chain issues in SME food sector. A systematic Review	Mr. Arun Jose	Journal of Advances in Management Research	2019	0	Department of Production Engineering, National Institute of Technol	Nil

					ogy, Tiruchirappalli	
Editorial Preface on the Proceedings of the International Multi-Conference on Computing, Communication, Electrical and Nanotechnology, I2CN-2k18	Dr.T. D. Subash	Materials Today	2019	0	Dept. of ECE, Mangalam College of Engineering, Ettumanoor, Kottayam, Kerala, India	18
A comprehensive review on the VLSI design performance of different Parallel Prefix Adders	Rakesh .S	Materials Today	2019	1	Dept. of ECE, Mangalam College of Engineering, Ettumanoor, Kottayam, Kerala, India	9
Low Power Hardware Efficient Comparator using Full Swing 3T	Reneesh Zacharia	International Journal of Recent Technology and Engineering	2019	0	Dept. of ECE, Mangalam College of Engineering, Ettumanoor, Kottayam, Kerala, India	Nil
Low Power and Area Efficient Full Adder using GDI and 2T	Aswathi Gopan	International Journal of Recent Technology and Engineering	2019	0	Dept. of ECE, Mangalam College of Engineering, Ettumanoor, Kottayam, Kerala, India	Nil
No file uploaded.						

3.3.6 – h-Index of the Institutional Publications during the year. (based on Scopus/ Web of science)

Title of the Paper	Name of Author	Title of journal	Year of publication	h-index	Number of citations excluding self citation	Institutional affiliation as mentioned in the publication
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A comprehensive review on the VLSI design performance of different Parallel Prefix Adders	Rakesh .S	Materials Today	2019	1	1	Dept. of ECE, Mangalam College of Engineering, Ettumanoor, Kottayam, Kerala, India
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3.3.7 – Faculty participation in Seminars/Conferences and Symposia during the year :

Number of Faculty	International	National	State	Local
Attended/Seminars/Workshops	35	26	9	8
Presented papers	30	1	Nil	Nil
Resource persons	12	Nil	1	2
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3.4 – Extension Activities

3.4.1 – Number of extension and outreach programmes conducted in collaboration with industry, community and Non- Government Organisations through NSS/NCC/Red cross/Youth Red Cross (YRC) etc., during the year

Title of the activities	Organising unit/agency/ collaborating agency	Number of teachers participated in such activities	Number of students participated in such activities
ROTARYMBA	MBA, MLMCE	3	15
NSS CAMP	NSS	2	10
Kerala Flood Relief	NSS	2	15
E-waste collection	NSS	1	19
Gandhijayanthi cleaning program at Ettumanoor Family court	NSS	1	18
St. Joseph Orphanage Visit	NSS	1	19
Navajeevan Trust Visit	NSS	1	19
Punerjeni camp	NSS	1	19
NSS	MLMCE	1	15
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3.4.2 – Awards and recognition received for extension activities from Government and other recognized bodies during the year

Name of the activity	Award/Recognition	Awarding Bodies	Number of students
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			Benefited
NIL	NIL	NIL	Nil
No file uploaded.			

3.4.3 – Students participating in extension activities with Government Organisations, Non-Government Organisations and programmes such as Swachh Bharat, Aids Awareness, Gender Issue, etc. during the year

Name of the scheme	Organising unit/Agency/collaborating agency	Name of the activity	Number of teachers participated in such activities	Number of students participated in such activities
Special Camp	MLMCE	Special Camp	1	4
PUNARJANI-NSS CAMP(5 DAY)	MLMCE	PUNARJANI-NSS CAMP(5 DAY)	1	4
ORIENTATION PROGRAM	MLMCE	ORIENTATION PROGRAM	1	4
SKILL DEVELOPMENT PROGRAM	MLMCE	SKILL DEVELOPMENT PROGRAM	1	4
INDEPENDANCE DAY	MLMCE	INDEPENDANCE DAY	1	4
Swachh Bharat 2019	Swachh Bharat	Swachh Bharat 2019	1	1
Post flood rehabilitaiaon work	Government of Kerala	Flood Relief	1	19
View File				

3.5 – Collaborations

3.5.1 – Number of Collaborative activities for research, faculty exchange, student exchange during the year

Nature of activity	Participant	Source of financial support	Duration
Japan -Asia Youth Exchange program in science Japan -Asia Youth Exchange program in science (SAKURA Science Exchange)	Karthika Nair(ME)	Japan Science And Technology	14
Japan -Asia Youth Exchange program in science Japan -Asia Youth Exchange program in science (SAKURA Science Exchange)	Gayathri Varma(ECE)	Japan Science And Technology	14
Japan -Asia Youth Exchange program in science Japan -Asia Youth Exchange program in science (SAKURA Science Exchange)	Agath Emmanual(ECE)	Japan Science And Technology	14
Japan -Asia Youth	Radhalakshmi(ECE)	Japan Science And	14

Exchange program in science Japan -Asia Youth Exchange program in science (SAKURA Science Exchange)		Technology	
Japan -Asia Youth Exchange program in science Japan -Asia Youth Exchange program in science (SAKURA Science Exchange)	Vishnu Prasad(ECE)	Japan Science And Technology	14
Japan -Asia Youth Exchange program in science Japan -Asia Youth Exchange program in science (SAKURA Science Exchange)	Arathy Soman(ECE)	Japan Science And Technology	14
Japan -Asia Youth Exchange program in science Japan -Asia Youth Exchange program in science (SAKURA Science Exchange)	Benjamin A Jacob (CSE)	Japan Science And Technology	14
Japan -Asia Youth Exchange program in science Japan -Asia Youth Exchange program in science (SAKURA Science Exchange)	Anal E S (EEE)	Japan Science And Technology	14
Japan -Asia Youth Exchange program in science Japan -Asia Youth Exchange program in science (SAKURA Science Exchange)	Nisha Mary Augustine (CIVIL)	Japan Science And Technology	14
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3.5.2 – Linkages with institutions/industries for internship, on-the- job training, project work, sharing of research facilities etc. during the year

Nature of linkage	Title of the linkage	Name of the partnering institution/ industry /research lab with contact details	Duration From	Duration To	Participant
Project Work	Guiding project	Diligent Spark Embedded	25/01/2019	15/02/2019	1

		Solutions (Akhil K R)			
Internship	Industry Internship	KELTRON	05/08/2018	21/08/2018	1
Internship	Industry Internship	KELTRON	18/07/2018	24/07/2019	9
Industrial Visit	Industry	KSEB Generating Station Moozhiyar	29/03/2019	29/03/2019	35
Industrial Visit	Industry	KSEB	25/07/2018	25/07/2018	14
Internship	Industry Internship	Tracancore Sugars and Chemicals LTD	17/07/2018	21/07/2018	15
Internship	Industry Internship	KELTRON	25/07/2018	30/07/2018	7
Internship	Industry Internship	MIDAS Rubber Company	16/07/2018	21/07/2018	1
Internship	Industry Internship	KSEB	09/07/2018	13/07/2018	8
Internship	Industry Internship	Tracancore Sugars	25/07/2018	25/07/2018	1
View File					

3.5.3 – MoUs signed with institutions of national, international importance, other universities, industries, corporate houses etc. during the year

Organisation	Date of MoU signed	Purpose/Activities	Number of students/teachers participated under MoUs
ASAP(RPI)	13/10/2019	Training Students and faculty members	10
Tecnovia Info Solutions	04/01/2019	Training	7
Diligent Spark Embedded Solutions	27/11/2018	Training	11
ICT Academy of Kerala	11/09/2019	FDP, Internship, Workshop	25
Google	16/10/2018	Training Students and faculty members	48
View File			

CRITERION IV – INFRASTRUCTURE AND LEARNING RESOURCES

4.1 – Physical Facilities

4.1.1 – Budget allocation, excluding salary for infrastructure augmentation during the year

Budget allocated for infrastructure augmentation	Budget utilized for infrastructure development
40000000	30308499

4.1.2 – Details of augmentation in infrastructure facilities during the year

Facilities	Existing or Newly Added
Classrooms with Wi-Fi OR LAN	Existing
Number of important equipments purchased (Greater than 1-0 lakh) during the current year	Existing
Others	Existing
Others	Existing
Value of the equipment purchased during the year (rs. in lakhs)	Existing
Video Centre	Newly Added
Seminar halls with ICT facilities	Existing
Classrooms with LCD facilities	Existing
Seminar Halls	Existing
Laboratories	Existing
Class rooms	Existing
Campus Area	Existing
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4.2 – Library as a Learning Resource

4.2.1 – Library is automated {Integrated Library Management System (ILMS)}

Name of the ILMS software	Nature of automation (fully or partially)	Version	Year of automation
KOHA	Partially	3.12.07.000	2016

4.2.2 – Library Services

Library Service Type	Existing		Newly Added		Total	
Text Books	29272	1608592	7714	783088	36986	2391680
Reference Books	3290	805022	Nil	Nil	3290	805022
e-Books	45	Nil	13740	Nil	13785	Nil
Journals	115	338115	23	83770	138	421885
e-Journals	1	506000	Nil	498847	1	1004847
Digital Database	Nil	Nil	Nil	Nil	Nil	Nil
CD & Video	290	Nil	Nil	Nil	290	Nil
Library Automation	1	Nil	Nil	Nil	1	Nil
Weeding (hard & soft)	Nil	Nil	Nil	Nil	Nil	Nil

Others(s pecify)	Nil	Nil	Nil	Nil	Nil	Nil
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4.2.3 – E-content developed by teachers such as: e-PG- Pathshala, CEC (under e-PG- Pathshala CEC (Under Graduate) SWAYAM other MOOCs platform NPTEL/NMEICT/any other Government initiatives & institutional (Learning Management System (LMS) etc

Name of the Teacher	Name of the Module	Platform on which module is developed	Date of launching e-content
AJIT JOSEPH	ADVANCED COMMUNICATION LAB	MY HAIKULEARNING	27/01/2019

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4.3 – IT Infrastructure

4.3.1 – Technology Upgradation (overall)

Type	Total Computers	Computer Lab	Internet	Browsing centers	Computer Centers	Office	Departments	Available Bandwidth (MBPS/ GBPS)	Others
Existing	847	18	100	2	2	2	7	100	5
Added	0	0	0	0	0	0	0	0	0
Total	847	18	100	2	2	2	7	100	5

4.3.2 – Bandwidth available of internet connection in the Institution (Leased line)

100 MBPS/ GBPS

4.3.3 – Facility for e-content

Name of the e-content development facility	Provide the link of the videos and media centre and recording facility
skill development platform kerala	www.mangalam.cse.in

4.4 – Maintenance of Campus Infrastructure

4.4.1 – Expenditure incurred on maintenance of physical facilities and academic support facilities, excluding salary component, during the year

Assigned Budget on academic facilities	Expenditure incurred on maintenance of academic facilities	Assigned budget on physical facilities	Expenditure incurred on maintenance of physical facilities
25000000	18799788	40000000	30308499

4.4.2 – Procedures and policies for maintaining and utilizing physical, academic and support facilities - laboratory, library, sports complex, computers, classrooms etc. (maximum 500 words) (information to be available in institutional Website, provide link)

• The campus networking centre run by computer science department is maintaining the IT services for all the stakeholders of the college. • Department laboratories are maintained and updated under the control of head of the departments. Each laboratory is under a lab-in-charge and assistant-lab-in-charge. The technical staffs of the laboratory perform the duty of maintenance and upkeep of equipments of each lab under the supervision of the lab-in-charge. Annual stock verification of all the equipments of the college is done by a committee appointed by the Principal for that purpose. Interdepartmental lab facilities are used with the concern of respective HoDs. • College central

library is managed by Chief librarian with a faculty in charge and policies for issue and return is well laid. Book request and status of availability due date all these information are available • Sports facilities are centrally controlled under the HoD physical education and managed and maintained with well established procedures.

https://docs.google.com/forms/d/e/1FAIpQLSc4TYKdpxm6IZpC0EAFVbyEvCO1I62R_RNjOKJhQ9ZiTNP_iQ/viewform

CRITERION V – STUDENT SUPPORT AND PROGRESSION

5.1 – Student Support

5.1.1 – Scholarships and Financial Support

	Name/Title of the scheme	Number of students	Amount in Rupees
Financial Support from institution	Tution fee waiver scheme, Management fee concession scholarship	103	5897500
Financial Support from Other Sources			
a) National	National merit scholarship, Merit Cum Means scholarship for professional Technical courses, E-GRANDZ, Vidyasammun athi merit scholarship, Postmetric Scholarship	50	2466600
b) International	0	Nil	0

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5.1.2 – Number of capability enhancement and development schemes such as Soft skill development, Remedial coaching, Language lab, Bridge courses, Yoga, Meditation, Personal Counselling and Mentoring etc.,

Name of the capability enhancement scheme	Date of implemetation	Number of students enrolled	Agencies involved
Soft skill development	08/11/2018	1082	CAREER PRIME, BANGLORE
Remedial Coaching	03/09/2018	491	MLMCE (COURSE IN CHARGE)
Bridge course	04/07/2018	297	MLMCE
Personal counselling	20/09/2018	5	MLMCE
MENTORING	08/02/2018	475	MLMCE, Department, Mentor-Mentee ratio maintained
SOFT SKILL_PG	08/06/2018	194	MBA DEPARTMENT

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5.1.3 – Students benefited by guidance for competitive examinations and career counselling offered by the institution during the year

Year	Name of the	Number of	Number of	Number of	Number of
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	scheme	benefited students for competitive examination	benefited students by career counseling activities	students who have passed in the comp. exam	students placed
2018	KMAT COACHING	50	50	35	Nil
2018	CMAT COACHING	15	15	12	Nil

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5.1.4 – Institutional mechanism for transparency, timely redressal of student grievances, Prevention of sexual harassment and ragging cases during the year

Total grievances received	Number of grievances redressed	Avg. number of days for grievance redressal
3	3	7

5.2 – Student Progression

5.2.1 – Details of campus placement during the year

On campus			Off campus		
Name of organizations visited	Number of students participated	Number of students placed	Name of organizations visited	Number of students participated	Number of students placed
CALL IN IT, Bangalore Magneq Software Eben Telecom Agile Business Genpact Eben Telecom Eoxys Systems LICIOUS PEOL NUCHANGE EqualizerCM Services Attinand Axis bank Sutherland Neudesc VIRTSA HakunaMatata Spectrum Zerone Consulting Pvt Ltd Jaro Educat	1643	118	Experion Technologies Hexaware IBS INFO DESIGN Analytics Quotient Services India Pvt.Ltd COGANAZENT Poornam Infovision VVDN Technologies m bit oppo amazon Enoah Solutions IBM	228	17

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5.2.2 – Student progression to higher education in percentage during the year

Year	Number of	Programme	Department	Name of	Name of
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	students enrolling into higher education	graduated from	graduated from	institution joined	programme admitted to
2018	2	B.TECH	ELECTRICAL AND ELECTRONICS ENGINEERING	TU Chemnitz, Germany Deggendorf Institute of Technology,	MS
2018	5	B.TECH	CIVIL ENGINEERING	GEC, KANNUR, MANGALAM COLLEGE OF ENGINEERING, MAR BASELIOS COLLEGE OF ENGINEERING AND TECHNOLOGY TRIVANDRUM	M.TECH
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5.2.3 – Students qualifying in state/ national/ international level examinations during the year (eg:NET/SET/SLET/GATE/GMAT/CAT/GRE/TOFEL/Civil Services/State Government Services)

Items	Number of students selected/ qualifying
GATE	2
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5.2.4 – Sports and cultural activities / competitions organised at the institution level during the year

Activity	Level	Number of Participants
Relay	Institution Level	1
Basketball	Institution Level	2
Chess	Institution Level	1
Football	Institution Level	2
TECH FEST	Institution Level	40
WORKSHOP	Institution Level	10
SBI YONO QUIZ	DISTRICT	3
PROJECT EXPO	Institution Level	20
POSTER PRESENTATION	Institution Level	1
PAPER PRESENTATION	Institution Level	3
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5.3 – Student Participation and Activities

5.3.1 – Number of awards/medals for outstanding performance in sports/cultural activities at national/international level (award for a team event should be counted as one)

Year	Name of the award/medal	National/ Internaional	Number of awards for Sports	Number of awards for Cultural	Student ID number	Name of the student
No Data Entered/Not Applicable !!!						
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5.3.2 – Activity of Student Council & representation of students on academic & administrative bodies/committees of the institution (maximum 500 words)

The institution selects two representatives from the classes through class election and nominates them to the student council of the college. The chairman, secretary and other positions are elected among the council members. The council is responsible for all co-curricular and extra-curricular activities and grievances associated with students. The functioning of the council is monitored by the head of the institution through senior faculty member. The student council coordinates various activities such as arts fest and tech fest. In addition the council take initiatives to impart social responsibility among the students. After all the council acts as a structure to build a strong student group having good knowledge and commitment towards society.

5.4 – Alumni Engagement

5.4.1 – Whether the institution has registered Alumni Association?

Yes

Manga lam college alumni association serves as a forum to enhance relationship, networking and alliances among pass out students and present students, staff and management of manga lamnil college.

5.4.2 – No. of enrolled Alumni:

80

5.4.3 – Alumni contribution during the year (in Rupees) :

0

5.4.4 – Meetings/activities organized by Alumni Association :

Activities and support from the Alumni Association Alumni Association activities are concentrated in areas like: • Alumni are members of college council and Departmental advisory committees. • Alumni are helpful in the recruitment process. • Alumni meet is conducted every year on 26th January.

CRITERION VI – GOVERNANCE, LEADERSHIP AND MANAGEMENT

6.1 – Institutional Vision and Leadership

6.1.1 – Mention two practices of decentralization and participative management during the last year (maximum 500 words)

The College is headed by the Principal, who is assisted by the IQAC coordinator, DQAC Members and HoDs of various departments to develop curricular matters and college calendar. The Department Quality Assurance Committee (DQAC) is an active body in the department to decide on important academic and disciplinary matters. Each laboratory is managed by one faculty who function as the lab-in-charge and. Technical staff is also allotted to each lab to ensure proper functioning and maintenance of laboratories. Each batch of students has a Senior staff Advisor and Junior Staff advisors, to support the curricular and personal matters. The Senior Advisor, through Class Committee Meetings, also ensures that the classes are conducted well. Feedback from staff and students are collected through various forums to decide electives to be offered, to improve the quality of the classes, industrial interactions etc. and corrective actions are taken, if needed. Co-curricular and extra-curricular activities function through clubs/ committees/ cells/ chapters and enjoy autonomy in their operations.

6.1.2 – Does the institution have a Management Information System (MIS)?

Yes

6.2 – Strategy Development and Deployment

6.2.1 – Quality improvement strategies adopted by the institution for each of the following (with in 100 words each):

Strategy Type	Details
Industry Interaction / Collaboration	The following are some of the quality improvement strategies adopted by the institution. a) Approach major industries of each department to explore chances of MoUs. b) Invite faculty from National/International institutes for fostering a better collaboration. c) Strengthen the Alumnities for better collaboration with the industries who have employed our students.
Human Resource Management	The following are some of the quality improvement strategies adopted by the institution. a) HR Management is being done using Management Information system. b) HR office is moving towards a system which requires least paper usage. c) Following the norms given by the government and AICTE from time to time. Faculty and Staff recruitment
Library, ICT and Physical Infrastructure / Instrumentation	The following are some of the quality improvement strategies adopted by the institution. a) Strengthen the department library by increasing the number of books and improving the library attendance by allocating library hour. b) Spread the awareness of ICT among faculty members. c) Incorporate ICT in some selected courses.
Research and Development	The following are some of the quality improvement strategies, in Research and Development, adopted by the institution. a) Conduct of more numbers of national and international conferences and workshop. b) Motivation to faculty to pursue Ph.D. c) Adopted the policy to accept the final year project of students only if accompanied with a Journal/Conference paper.
Examination and Evaluation	The following are some of the quality improvement strategies, in Examination and evaluation, adopted by the institution. a) Open book test in some courses. b) Question paper for internal exams for each course is now set by a team instead of the course-in-charge. c) CCTV infrastructure setup in Examination halls.

Teaching and Learning	The following are some of the quality improvement strategies, in teaching and learning, adopted by the institution. a) Incorporation of ICT tools in teaching learning process. b) Mandatory NPTEL courses for Faculty. c) Encourage faculty to participate FDPs and workshops that concentrate in the area of teaching and d) Remedy classes for the weak in studies.
Curriculum Development	The following are some of the quality improvement strategies, for curriculum, adopted by the institution. a) Conduct of additional value added courses. b) Adopt time to time suggestions given by AICTE and KTU for curriculum enrichment. c) Provide more duty leave to students for attending competitions, cultural festivals and technical events of other institution. d) Promote more International student exchange program

6.2.2 – Implementation of e-governance in areas of operations:

E-governance area	Details
Administration	MLMCE is running a versatile software elive which manages students data, staff details and all administrative matters.
Finance and Accounts	Finance and accounts
Student Admission and Support	Vidya mangalam-

6.3 – Faculty Empowerment Strategies

6.3.1 – Teachers provided with financial support to attend conferences / workshops and towards membership fee of professional bodies during the year

Year	Name of Teacher	Name of conference/ workshop attended for which financial support provided	Name of the professional body for which membership fee is provided	Amount of support
2019	Ms.Tinta Baby (MBA)	Two day FDP on writing and publishing case studies and research article	XIME, Cochin	3500
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6.3.2 – Number of professional development / administrative training programmes organized by the College for teaching and non teaching staff during the year

Year	Title of the professional development programme organised for teaching staff	Title of the administrative training programme organised for non-teaching staff	From date	To Date	Number of participants (Teaching staff)	Number of participants (non-teaching staff)
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2018	GOOGLE	Android Developer Fundamentals	17/07/2018	21/07/2019	6	Nil
2019	ICT ACADEMY	IT tools for Academic Research	15/01/2019	17/01/2019	17	Nil
2019	Research Avenues in Coastal Engineering	Research Avenues in Coastal Engineering	14/01/2019	19/01/2019	4	Nil
2018	Nanomaterial's in concrete	Nanomaterial's in concrete	17/12/2018	22/12/2018	4	Nil
2019	International Seminar on "Strategies for a successful career in science ,engineering and Technology"	International Seminar on "Strategies for a successful career in science ,engineering and Technology"	04/02/2019	04/02/2019	12	Nil
2019	International Multi-Conference on Computing, Communication, Electrical Nanotechnology (I2CN-2K19)	International Multi-Conference on Computing, Communication, Electrical Nanotechnology (I2CN-2K19)	25/04/2019	26/04/2019	12	Nil
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6.3.3 – No. of teachers attending professional development programmes, viz., Orientation Programme, Refresher Course, Short Term Course, Faculty Development Programmes during the year

Title of the professional development programme	Number of teachers who attended	From Date	To date	Duration
IT Tools for academics and research	2	15/01/2019	17/01/2019	3
PUMP-hands on training workshop on Power electronic converters and	1	25/03/2019	27/03/2019	3

emulators for solar PV organised by NCPRE, IIT BOMBAY				
PUMP-hands on training workshop on fabrication and crystalline silicon solar cell	1	27/08/2018	31/08/2018	5
Electrical system design organised by MBC Kuttikanam peerumedu	1	17/07/2018	21/07/2018	5
6 days short term training program. A transdisciplinary approach in Engineering	1	16/07/2018	21/07/2018	6
3 Day national workshop on recent advances in metals ,processes and applications	1	16/07/2018	18/07/2018	3
3-Day Training Programme on IT Tools for Academics Research	3	15/01/2019	17/01/2019	3
Machine Learning	1	16/07/2018	21/07/2018	6
IT tools for Academic Research	17	15/01/2019	17/01/2019	3
Android Developer Fundamentals	6	17/07/2018	21/07/2018	5

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6.3.4 – Faculty and Staff recruitment (no. for permanent recruitment):

Teaching		Non-teaching	
Permanent	Full Time	Permanent	Full Time
131	131	26	26

6.3.5 – Welfare schemes for

Teaching	Non-teaching	Students
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STAFF CLUB ACTIVITES

Group Insurance policy

MC VARGHESE SCHOLARSHIP
SCHEME**6.4 – Financial Management and Resource Mobilization**

6.4.1 – Institution conducts internal and external financial audits regularly (with in 100 words each)

Institution conducts most of the financial transactions through digital systems through the login of various stake holders. All purchase and payments are done through electronic transfer of funds or by NEFT/RTGS. Internal and external auditing has been done regularly. The institution has established a system to audit all the financial transactions by both internal auditors and auditors of external agency. The institute has appointed CA for the same. He will take care of all audit process internal as well as external. The books of accounts and the supporting evidences are subjected to both internal and external audit. The internal audit practices to monitor financial management of the institution ensure sound financial health of the institution. The last external audit has been concluded up to 31st March, 2019 and all statutory compliances in this respect had also been done. There have been no major objections surfacing out of both internal and external audit

6.4.2 – Funds / Grants received from management, non-government bodies, individuals, philanthropies during the year(not covered in Criterion III)

Name of the non government funding agencies /individuals	Funds/ Grnats received in Rs.	Purpose
NIL	0	NIL
No file uploaded.		

6.4.3 – Total corpus fund generated

No Data Entered/Not Applicable !!!

6.5 – Internal Quality Assurance System

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

Audit Type	External		Internal	
	Yes/No	Agency	Yes/No	Authority
Academic	Yes	APJ Abdul Kalam Technological University	Yes	IQAC
Administrative	Yes	APJ Abdul Kalam Technological University	Yes	MANAGEMENT

6.5.2 – Activities and support from the Parent – Teacher Association (at least three)

PTA is convened every year for effective participation of Parents in the college processes(ENGINEERING). Some of the activities under PTA are: ? PTA members are active in college council and Department advisory committee in suggesting new ideas. ? PTA members are supportive in building Industry-Institute interactions. ? Admission Support. For MBA ? PTA Meeting will be conducted ever trimester ? PTA Executive meetings conducted regularly ? Supporting CSR activities. ? . Supporting Industrial Visits.

6.5.3 – Development programmes for support staff (at least three)

Staff members are encouraged to regularly upgrade their knowledge through: ?

SDPs and training programs. ? Staff counseling. ? Online courses ? Giving proper training to the lab staff in frequent intervals inorder to do the innovative activities introduced by the university ? . Providing proper training to librarian to equip the librarian with mandatory requirement 3 ? Arranging development activities to guest faculties to help them perform well in assigned duties.

6.5.4 – Post Accreditation initiative(s) (mention at least three)

NBA Accreditation process International student collaboration programs Improvement in teaching learning process by intensive use of ICT based tools

6.5.5 – Internal Quality Assurance System Details

a) Submission of Data for AISHE portal	Yes
b)Participation in NIRF	No
c)ISO certification	Yes
d)NBA or any other quality audit	Yes

6.5.6 – Number of Quality Initiatives undertaken during the year

Year	Name of quality initiative by IQAC	Date of conducting IQAC	Duration From	Duration To	Number of participants
2019	NBA Process Audit	07/02/2019	07/02/2019	08/02/2019	126
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CRITERION VII – INSTITUTIONAL VALUES AND BEST PRACTICES

7.1 – Institutional Values and Social Responsibilities

7.1.1 – Gender Equity (Number of gender equity promotion programmes organized by the institution during the year)

Title of the programme	Period from	Period To	Number of Participants	
			Female	Male
No Data Entered/Not Applicable !!!				

7.1.2 – Environmental Consciousness and Sustainability/Alternate Energy initiatives such as:

Percentage of power requirement of the University met by the renewable energy sources
? Installation of solar panel to meet the energy requirement of the college. ? Using energy saving LED lights in campus. ? Construction of building such that sufficient light and air will pass through the building thereby reducing the dependence on electricity. ? Use standard accessories and fitting to reduce water leakage thereby reducing the use of water. ? Methods are taken to disperse the water materials. ? Regular vehicle maintenance to reduce pollution.

7.1.3 – Differently abled (Divyangjan) friendliness

Item facilities	Yes/No	Number of beneficiaries
Physical facilities	Yes	1595
Provision for lift	Yes	1595
Ramp/Rails	Yes	1595

7.1.4 – Inclusion and Situatedness

Year	Number of initiatives to address locational advantages and disadvantages	Number of initiatives taken to engage with and contribute to local community	Date	Duration	Name of initiative	Issues addressed	Number of participating students and staff
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No Data Entered/Not Applicable !!!

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7.1.5 – Human Values and Professional Ethics Code of conduct (handbooks) for various stakeholders

Title	Date of publication	Follow up(max 100 words)
GENERAL INSTRUCTIONS	01/08/2018	GENERAL INSTRUCTIONS FOR NEWLY ADMITTED STUDENTS

7.1.6 – Activities conducted for promotion of universal Values and Ethics

Activity	Duration From	Duration To	Number of participants
HONESTY SHOP	01/07/2018	30/06/2019	1595
Induction and orientation program for first year	20/06/2018	27/07/2018	75

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7.1.7 – Initiatives taken by the institution to make the campus eco-friendly (at least five)

Various initiatives by the management has been taken to make the campus ecofriendly. Some of them are: ? One plant in every class room and staff room. ? Declaring the campus plastic free. ? Reduce use of paper. ? Proper waste disposal system. ? Maintaining the greenery and planting trees every year. ? ECO CLUB

7.2 – Best Practices

7.2.1 – Describe at least two institutional best practices

? Sir Albert Howard Clava Club for organic farming. ? Organizing programs of social relevance through various student and management initiatives, which has led to a wide acceptance of the institution among masses. Most of these programs are done under NSS. ? Involvement of Parents, alumni and students in the admission process every year has guaranteed that even at such difficult times the college has still managed to get enough admissions.

Upload details of two best practices successfully implemented by the institution as per NAAC format in your institution website, provide the link

<http://mangalam.ac.in/mlmce/iqac/>

7.3 – Institutional Distinctiveness

7.3.1 – Provide the details of the performance of the institution in one area distinctive to its vision, priority and thrust in not more than 500 words

Innovations introduced during this academic year which have created a positive impact on the functioning of the institution. There are several steps taken which have created a positive impact on the functioning of the institution. ? Restructuring of the IQAC in the NAAC guidelines. ? Extensive NPTEL courses attended by the faculty have resulted in an increased orientation towards

research. ? The plan to go for NBA accreditation has given a confidence boost to the faculty and students. ? Open book test have given a new perspective to education for students. ? International conference has allowed the students and faculty to communicate with a global audience.

Provide the weblink of the institution

<http://mangalam.ac.in/mlmce/igac/>

8.Future Plans of Actions for Next Academic Year

Increase the usage of ICT for online teaching and remedial. · Start new courses in advanced courses like Artificial Intelligence. · Apply for Diploma based courses in various branches. · Plan to conduct various, FDPs, Workshops, Seminars etc for staff and students. · Plan to conduct 5NANO2020: International Conference on Nanoelectronics, Nanophotonics, Nanomaterials, Nanobioscience Nanotechnology in the month of April 2020. · Plan to conduct an FDP on student induction for AICTE Approved institution in the month of November 2019.