



Yearly Status Report - 2019-2020

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			NEEBA SABU																
Phone no/Alternate Phone no.			04812533722																
Mobile no.			9496461936																
Registered Email			iqac@mangalam.in																
Alternate Email			neeba.sabu@mangalam.in																
3. Website Address																			
Web-link of the AQAR: (Previous Academic Year)			https://engineering.mangalam.edu.in/NAAC/AQAR_2_MLM.pdf																
4. Whether Academic Calendar prepared during the year			Yes																
if yes,whether it is uploaded in the institutional website: Weblink :			https://engineering.mangalam.edu.in/NAAC/Academic_Calender_Odd_Sem_2019_20.pdf																
5. Accrediation Details																			
<table border="1"> <tr> <th rowspan="2">Cycle</th> <th rowspan="2">Grade</th> <th rowspan="2">CGPA</th> <th rowspan="2">Year of Accrediation</th> <th colspan="2">Validity</th> </tr> <tr> <th>Period From</th> <th>Period To</th> </tr> <tr> <td>1</td> <td>B+</td> <td>2.52</td> <td>2017</td> <td>22-Feb-2017</td> <td>21-Feb-2022</td> </tr> </table>						Cycle	Grade	CGPA	Year of Accrediation	Validity		Period From	Period To	1	B+	2.52	2017	22-Feb-2017	21-Feb-2022
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																			
<table border="1"> <tr> <th colspan="3">Quality initiatives by IQAC during the year for promoting quality culture</th> </tr> <tr> <th>Item /Title of the quality initiative by IQAC</th> <th>Date & Duration</th> <th>Number of participants/ beneficiaries</th> </tr> <tr> <td>Induction Program for</td> <td>15-Jul-2019</td> <td>358</td> </tr> </table>						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	Induction Program for	15-Jul-2019	358					
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Item /Title of the quality initiative by IQAC	Date & Duration	Number of participants/ beneficiaries																	
Induction Program for	15-Jul-2019	358																	

first years

5

[View File](#)

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
Mr.AMAL R,Assistant Professor,ME	APJAKTU Emergency Ventilator Challenge	APJAKTU COVID 19 CELL & CERD	2019 365	10000
ECE	Major projects	International Center for Entrepreneurship & Technology (ICREATE), Ahmedabad,Gujarat	2019 365	150000
ECE	Minor Projects	New Generation Energy Meter	2019 365	10000
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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

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 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 exam by statistical analysis and implementing proper remedial measures to correct it on time. Conducting special coaching classes and seminar for high

end students to achieve cores in competitive exams.

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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 conferences 5NANO 2020, ICCIDT 2020 15TH 16th June 2020 etc
course notes submission	All the subject handling faculties submitted the course notes of at least 3 modules in a common format(spiral bind copy) before the commencement of class
Question paper scrutiny	submitted the question papers of the series exams to the concerned subject experts one week prior to the examination for scrutiny
Gap identification	Guest lectures were arranged to bridge the gap in the course content
Online class tools	For improving the efficiency of online teaching , platforms like google meet and google classroom were used
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14. Whether AQAR was placed before statutory body ?

Yes

Name of Statutory Body	Meeting Date
MANAGEMENT OF MANGALAM COLLEGE OF ENGINEERING	09-Dec-2020

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

2020

Date of Submission

30-Jun-2020

17. Does the Institution have Management Information System ?

Yes

<p>If yes, give a brief description and a list of modules currently operational (maximum 500 words)</p>	<p>MLMCE has been using elive software for managing and functioning of all academic related matters, whereas all official related information mangalam domain mails are sent by all faculties. The outcome based learning is smoothened by proper functioning of software system which includes regular attendance entry, assignment mark entry, class test mark entry, sessional calculation and attendance calculation. The admission details and admission number of all students are available in the software. The attendance of students can be monitored on a daily basis back can be end to parents and feedback can be send to parent the finger print mechanism is linked with elive software system, hence swipe report of and salary of staff is connected to this system.</p>
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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 employability/entrepreneurship	Skill Development
HVAC	Nil	03/09/2019	5	Employability	Designing
CAD	Nil	07/08/2019	5	Employability	Designing
Digital Marketing	Nil	30/08/2019	5	Employability	Marketing skills
Proteus	Nil	12/10/2019	5	Employability	Designing
LaTeX	Nil	12/10/2019	5	Employability	Designing
CAD	Nil	12/10/2019	5	Employability	Designing
ETAP	Nil	08/02/2020	5	Employability	Designing
HDL Design	Nil	03/10/2019	5	Employability	Designing
2D to 3D IC-change in trends in semiconductor IC design	Nil	06/08/2019	5	Employability	Designing
Certification of Java	Nil	12/08/2019	5	Employability	Designing
Certification of PHP	Nil	22/01/2020	5	Employability	Designing
Course on STAAD Pro	Nil	05/01/2019	5	Employability	Designing
Course on STAAD Pro	Nil	08/11/2019	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
Nil	NIL	Nil
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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
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BTech	ALL BRANCHES	01/07/2019
Mtech	ALL BRANCHES	01/07/2019

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

	Certificate	Diploma Course
Number of Students	189	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
Workshop on Data Science Machine Learning	30/08/2019	62
Workshop on IoT Challenge	26/09/2019	140
Workshop on Cyber Disease Ethical Hacking	14/02/2020	96
Workshop on Robotic Automation	15/11/2019	35
Six day workshop on Etab Revit architecture	17/07/2019	33
Three day workshop on structural drawing using Auto Cad	26/07/2019	30
Talk on anti drug awareness	29/07/2019	60
Invited talk on growing up carefully in modern life	01/08/2019	63
Half day workshop on structural design using softwares	23/01/2020	30
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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	Torc infotech	7
BTech	Aumento	16
BTech	KELTRON KNOWLDEGE CENTRE	5
BTech	BSNL	11
BTech	i BAND TECHNOLOGIES	1
BTech	iNFOX TECHNOLOGIES	6
BTech	iNFOX Technologie	11
BTech	TORC INFOTECH	10
BTech	NEZZT SOLUTION	1

BTech	Bharat Sanchar Nigam Limited	4
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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
<p>The class committee meetings are held periodically provides a platform or the students to discuss academic and non academic issues.PTA meetings are held periodically so as to improve overall development of students.Their suggestions are in cooperated in improving functioning of classes.The alumni surveys are conducted to give constructive suggestions i improving the mode of teaching learning process.The valuable suggestions from industrial personnel during meeting/industrial visits are used in improving the curriculum needs to match the needs with the industry are duly communicated to IQAC followed by DQAC ad henceforth execute it by means of seminars and extra courses.The institute also collects feedback form from 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</p>

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
BTech	CSE/CE/ME/ECE /EEE	480	475	358
Mtech	CSE/CE/ME/ECE /EEE	90	58	26
MBA	MBA	90	171	90
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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
2019	358	116	83	10	35

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
128	128	25	44	2	18
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
1705	128	1:13

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
128	100	28	28	11

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
2020	Prof. John T Varughese	Dean	vocational Excellence Award from Rotary Club
2019	Mrs. Eugene Peter	Assistant Professor	ITC Fellowship for attending Conference
2019	Dr. T. D. Subhash	Professor	Under the leadership IEEE Photonics Society Madras India Chapter receives Largest Membership increase award for

			the year 2019. (The award consists of a certificate and a \$500 USD honorarium).
2019	Dr.T.D.Subhash	Professor	Received a Seed Grant of USD 2,500 (INR. 1,75,000) in the year 2019
2019	Dr.T.D.Subhash	Professor	Received a Rebate of INR.5,600 for IEEE Student Branch from IEEE headquarters USA in the year 2019
2019	Dr.T.D.Subhash	Professor	Received fellowship from IEEE Photonics Society, USA to attend the IEEE Photonics Conference held at San Antonio, Texas, USA on 29th September - 3rd October, 2019
2019	Dr.T.D.Subhash	Professor	ITC India fellowship to attend 3rd International Test Conference India (ITC India) held at Leela Palace, Bangalore, India on 21st to 23rd July, 2019.
2019	Dr.T.D.Subhash	Professor	Received a fund of USD 5,000 (INR. 3,78,750) for "Portable Mechanical Ventilator (10 Units)" (20-COV-96) in response to the IEEE HAC SIGHT Special Call for Project Proposals in the year June, 2020
2020	Dr.T.D.Subhash	Professor	Received a Seed Grant of USD 2,500 (INR. 1,89,375) for Support of 5 Rural Indian Villages in the year 2020

2020	Dr.T.D.Subhash	Professor	Received a seed grant of US \$250 (INR. 19,000) from IEEE SIGHT group to initiate our IEEE SIGHT community activities in the year 2020
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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
Mtech	M.Tech	S2/S4	26/06/2020	04/11/2020
BTech	B.Tech	S2/S4/S6/S8	25/06/2020	20/09/2020
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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)

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
2016 B.Tech	BTech	EEE	43	42	97.6
2016 B.Tech	BTech	ECE	71	67	94.3
2016 B.Tech	BTech	ME	112	109	97.3
2016 B.Tech	BTech	CE	116	114	98.2
2016 B.Tech	BTech	CSE	130	124	95.38
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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)

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
Projects sponsored by the University	365	APJ KTU COVID CELL AND CERD	10000	10000
Minor Projects	365	New Generation Energy Meter	10000	0
Major Projects	365	International Center for Entrepreneurship Technology (ICREATE), Ahmedabad, Gujarat	150000	50000
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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
Seminar on GST(Goods and Services Tax)	Department of Management Studies(MBA)	26/11/2019

International Seminar on Japanese Management Practices	Department of Management Studies(MBA)	26/11/2019
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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
REDIVIVUS DRIVING SIMULATOR USING VR EFFECT	JEFFIN JOSEPH IDICULA	REBOOT KERALA HACKATHONE 2020 CONDUCTED AT M DASAN INSTITUTE OF TECHNOLOGY, ULLIYERI CALICUT	21/02/2020	ZONAL LEVEL
REDIVIVUS DRIVING SIMULATOR USING VR EFFECT	RESHMA ROY	REBOOT KERALA HACKATHONE 2020 CONDUCTED AT M DASAN INSTITUTE OF TECHNOLOGY, ULLIYERI CALICUT	21/02/2020	ZONAL LEVEL
REDIVIVUS DRIVING SIMULATOR USING VR EFFECT	PARVATHY VISWANATH	REBOOT KERALA HACKATHONE 2020 CONDUCTED AT M DASAN INSTITUTE OF TECHNOLOGY, ULLIYERI CALICUT	21/02/2020	ZONAL LEVEL
REDIVIVUS DRIVING SIMULATOR USING VR EFFECT	GOPIKA VIJAYAKUMAR	REBOOT KERALA HACKATHONE 2020 CONDUCTED AT M DASAN INSTITUTE OF TECHNOLOGY, ULLIYERI CALICUT	21/02/2020	ZONAL LEVEL
REDIVIVUS DRIVING SIMULATOR USING VR EFFECT	MANU R K	REBOOT KERALA HACKATHONE 2020 CONDUCTED AT M DASAN INSTITUTE OF TECHNOLOGY, ULLIYERI CALICUT	21/02/2020	ZONAL LEVEL
REDIVIVUS DRIVING SIMULATOR USING VR EFFECT	ABHAY SAJEEVAN	REBOOT KERALA HACKATHONE 2020 CONDUCTED AT M DASAN INSTITUTE OF TECHNOLOGY, ULLIYERI CALICUT	21/02/2020	ZONAL LEVEL
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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
NIL	NIL	NIL	NIL	NIL	Nil
No file uploaded.					

3.3 – Research Publications and Awards

3.3.1 – Incentive to the teachers who receive recognition/awards

State	National	International
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14	NIL	NIL
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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	Nill

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	ME	2	Nill
International	ECE	4	1.15
International	EEE	7	Nill
International	MBA	2	5
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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
EEE	18
ECE	22
CE	1
CSE	23
View File	

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
A Novel Design for a Low-Power High-Speed Robust Supply-Gated-Sleep 6T SRAM Cell	Dr.Subash T D	Materials Today: Proceedings	2020	31	Mangalam College of Engineering	1
FPGA Implementation Of Dynamic Power, Area Optimized, Reversible ALU For Various DSP Applications	Dr.Subash T D	Materials Today: Proceedings	2020	31	Mangalam College of Engineering	Nill

Photoluminescence investigations of Ytterbium doped Calcium Aluminate nanophosphor synthesized by sol-gel technique (CaAl ₂ O ₄ :Yb)	Dr.Subash T D	Materials Today: Proceedings	2020	31	Mangalam College of Engineering	Nill
Synthesis of Red-Emitting CdSe/CdS/ZnS Core/Shell Quantum Dots	Dr.Subash T D	Materials Today: Proceedings	2020	31	Mangalam College of Engineering	Nill
Autonomous Public Transportation System	Dr.Subash T D	Materials Today: Proceedings	2020	31	Mangalam College of Engineering	Nill
Extended Gate with Source Splitted Tunnel Field Effect Transistor for Improved Device Performance	Dr.Subash T D	Materials Today: Proceedings	2020	31	Mangalam College of Engineering	Nill
COVID 19 an Infectious Disease Influenced in Modern Era - A Review on Current Evidence	Dr.Subash T D	Materials Today: Proceedings	2020	31	Mangalam College of Engineering	Nill
Supply Chain issues in SME food sector:A	Mr.Arun Jose	Journal of Advances in Management	2020	0	NIT,Thrichy	8

systematic review		Research				
Pedestrian level of service at Unsignalized Intersection and Junction Improvement	Mrs.Anitta Aloysious	Journal of Dental and Medical Sciences	2020	0	Mangalam College of Engineering	Nill
Swift Based QLRBP Local Descriptor for Colour Images	Dr Radha krishnan R	Journal of Critical Review	2020	0	Mangalam College of Engineering	Nill
View File						

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
Study and Analysis of Suppress of Surface Wave Propagation in Microstrip Patch Antenna	Dr.Subash T D	Materials Today: Proceedings	2020	18	Nill	Mangalam College of Engineering
A Closed Loop Model of Modified SEPDC Based High Set-up DC-DC Converter	Dr.Subash T D	Materials Today: Proceedings	2020	18	Nill	Mangalam College of Engineering
A Novel Design for a Low-Power High-Speed Robust Supply-Gated-Sleep 6T SRAM Cell	Dr.Subash T D	Materials Today: Proceedings	2020	18	1	Mangalam College of Engineering
FPGA Imp			2020	18	Nill	Mangalam

	lementatio n Of Dynamic Power, Area Optimized, Reversible ALU For Various DSP Applic ations	Dr.Subash T D	Materials Today: Pro ceedings				College of Engineerin g
	Photolum inescence investigat ions of Ytterbium doped Calcium Aluminate nanophosph or synthes ized by sol-gel technique (CaAl ₂ O ₄ : Yb)	Dr.Subash T D	Materials Today: Pro ceedings	2020	18	Nill	Mangalam College of Engineerin g
	Synthesis of Red- Emitting C dSe/CdS/Zn S Core/She ll/Shell Quantum Dots	Dr.Subash T D	Materials Today: Pro ceedings	2020	18	Nill	Mangalam College of Engineerin g
	Autonomous Public Tra nsportatio n System	Dr.Subash T D	Materials Today: Pro ceedings	2020	18	Nill	Mangalam College of Engineerin g
	Extended Gate with Source Splitted Tunnel Field Effect Transistor for Improved Device Per formance	Dr.Subash T D	Materials Today: Pro ceedings	2020	18	Nill	Mangalam College of Engineerin g
	COVID 19 an Infectious Disease	Dr.Subash T D	Materials Today: Pro ceedings	2020	18	Nill	Mangalam College of Engineerin g

Influenced in Modern Era - A Review on Current Evidence						
Supply Chain issues in SME food sector:A systematic review	Mr. Arun Jose	Jornal of Advances in Management Research	2020	1	8	NIT,Thri chy
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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	29	44	11	9
Presented papers	4	2	Nill	Nill
Resource persons	2	8	1	1
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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
Forest Day(3Hr)	NSS	2	13
Plastic Cleaning(6Hr)	NSS	2	13
School Kit Distribution(6Hr)	NSS	2	13
Navajeevan Trust Visit(6Hr)	NSS	2	13
cleaning(6Hr)	NSS	2	13
Ghandhi Jayanthi Cleaning(8Hr)	NSS	2	13
fund collection(6Hr)	NSS	2	13
Collection and distribution of dress for the flood affected areas(12Hr)	NSS	2	13
flood relief work(18Hr)	NSS	2	13

Corona -Online Awareness Program(6Hr)	NSS	1	10
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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 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
NIL	NIL	NIL	Nil	Nil
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
NIL	0	NIL	0
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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
INTERNSHIP	INDUSTRY INTERNSHIP	KERALA STATE ROAD TRANSPORT CORPORATION ALAPUZHA	07/01/2020	12/01/2020	1
INTERNSHIP	INDUSTRY INTERNSHIP	THE TRAVANCORE CEMENTS LTD. KOTTAYAM	03/01/2020	10/01/2020	7
INTERNSHIP	INDUSTRY INTERNSHIP	OJES AUTOMOBILES KOTHAMANGALAM	06/01/2020	11/01/2020	3
INDUSTRIAL VISIT	INDUSTRIAL VISIT	AUTOKAST LTD CHERTHALA,	21/11/2019	21/11/2019	45

INTERNSHIP	INDUSTRY INTERNSHIP	MAGOIN PVT LTD,ALAPUZHA	03/01/2020	16/01/2020	1
INTERNSHIP	INDUSTRY INTERNSHIP	MARUTI SUZ UKI ,KOTTAYAM	08/07/2019	12/07/2019	1
INTERNSHIP	INDUSTRY INTERNSHIP	KSE LTD,IR INJALAKUDA	18/07/2019	25/07/2019	1
INTERNSHIP	INDUSTRY INTERNSHIP	KAIRALI FO RD,KOTTAYAM	15/07/2019	22/07/2019	7
INTERNSHIP	INDUSTRY INTERNSHIP	KSRTC,KOTTAYAM	15/07/2019	19/07/2019	6
INTERNSHIP	INDUSTRY INTERNSHIP	KELTRON,TH IRUVANANTHAP URAM	22/07/2019	28/07/2019	5

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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
ICT ACADEMY	01/08/2019	Training for staff and students	10
YATANAM	10/01/2019	Training ,project and placement	17
CLAVELAND	15/07/2019	Training	15
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
1500000	1216248

4.1.2 – Details of augmentation in infrastructure facilities during the year

Facilities	Existing or Newly Added
Campus Area	Existing
Class rooms	Existing
Laboratories	Existing
Seminar Halls	Existing
Classrooms with LCD facilities	Existing
Seminar halls with ICT facilities	Existing
Video Centre	Existing
Value of the equipment purchased during the year (rs. in lakhs)	Existing
Others	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 patially)	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	36986	2391680	Nill	Nill	36986	2391680
Reference Books	3290	805022	Nill	Nill	3290	805022
e-Books	13785	Nill	Nill	Nill	13785	Nill
Journals	138	421855	Nill	Nill	138	421855
e-Journals	1	1004847	Nill	Nill	1	1004847
Digital Database	Nill	Nill	Nill	Nill	Nill	Nill
CD & Video	290	Nill	Nill	Nill	290	Nill
Library Automation	1	Nill	Nill	Nill	1	Nill
Weeding (hard & soft)	Nill	Nill	Nill	Nill	Nill	Nill
Others(s pecify)	Nill	Nill	Nill	Nill	Nill	Nill

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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
No Data Entered/Not Applicable !!!			
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4.3 – IT Infrastructure

4.3.1 – Technology Upgradation (overall)

[illegible]

Total	847	18	100	2	2	2	7	100	5
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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	https://www.mangalamcse.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
1200000	973000	1500000	1216248

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)

<p>The campus networking center 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 head of departments. Each laboratory is under lab in charge and assistant lab in charge. The technical staffs of the laboratory perform the duty of maintenance and upkeep of equipment of each lab under the supervision of the lab in charge. Annual stock verification of all the equipments 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 charge and policies for issue and return is well laid. The book request and status of availability due date are available.</p>
https://engineering.mangalam.edu.in/

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	MC VARGHESE MEMORIAL CONCESSION SCHOLARSHIP	377	14277450
Financial Support from Other Sources			
a) National	MERIT CUM MEANS	34	837200
b) International	Nil	Nil	Nil
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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 implementation	Number of students enrolled	Agencies involved
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PERSONALL COUNSELLNG	03/06/2019	5	MBA DEPARTMENT
Soft skill development_mba	03/06/2019	175	Talent us HR solutions Ovt Limited,Starwing HR Consultants
MENTORING	27/08/2019	1676	MLMCE - FACULTY MEMBERS
Bridge course	15/07/2019	525	MLMCE - FACULTY MEMBERS
Remedial Coaching	10/10/2019	698	MLMCE - FACULTY MEMBERS SUBJECT IN CHARGES
Soft skill development	22/10/2019	630	# igen Bangalore and placement cell of MLMCE
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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 scheme	Number of benefited students for competitive examination	Number of benefited students by career counseling activities	Number of students who have passedin the comp. exam	Number of studentsp placed
2019	TCS ion CCQT	71	Nill	9	3
2019	KMAT COACHING	36	32	36	32
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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
5	5	7

5.2 – Student Progression

5.2.1 – Details of campus placement during the year

On campus			Off campus		
Nameof organizations visited	Number of students participated	Number of stduents placed	Nameof organizations visited	Number of students participated	Number of stduents placed
EOXYS ,SUTH ERLAND,ALTRU ITS TECHNOLO GIES,LSQUARE ECO PRODUCTS PVT LTD	460	63	IBS ,PATHPA RTNER,DIGITA L CORE,CSS C ORP,COGNICOR ,LITMUS7,ALI GN,MINDSTEST VOX,NOVEL WO RKX,MUSIGMA,	1267	101

MITSOGO, POOR
NAM, NAVIGANT
, SUTHERLAND,
COGNIZANT, ZE
RONE
CONSULTING
PVT LTD, IBM
, WIPRO, TCS, U
ST GLOBAL, EY
, INFOSYS, BYJ
US APP , G10X
, BROADRIDGE,
HINDHUJA, GOA
N, AMAZ

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

Year	Number of students enrolling into higher education	Programme graduated from	Depratment graduated from	Name of institution joined	Name of programme admitted to
2019	1	MBA	MBA	TATM, Pala	HDC
2019	1	ECE	ECE	National Institute of fashion Technology	Masters in Fashion Technology
2019	8	CSE	CSE	Rajagiri schoo of Engineering and Technology IHRD Cherthala MLMCE Saintgits college of Engineering Lourde matha college, TVM University of Hertfords hireuh	M.TECH, MS

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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
SAPTARANG ART FEST	COLLEGE LEVEL	150

SPORTS	COLLEGE LEVEL	20
SAPTARANG ART FEST	COLLEGE LEVEL	80
TORQUE TECH FEST	COLLEGE LEVEL	180
COLLAGE COMPETITION	COLLEGE LEVEL	31
WORKSHOP ON IOT	COLLEGE LEVEL	27
SAPTARANG ART FEST	COLLEGE LEVEL	67
MEGATRON TECH FEST	COLLEGE LEVEL	98
TECH FEST ELEXplode	COLLEGE LEVEL	125
MAHASANGARAM 2019-MANAGEMENT FEST	COLLEGE LEVEL	250
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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

Alumni meet is conducted every year on 26th January.

5.4.2 – No. of enrolled Alumni:

743

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

No Data Entered/Not Applicable !!!

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 this year on 31st January via online mode

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
Admission of Students	The following are some of the quality improvement strategies, for admission, adopted by the institution. a) Offered better and increased number of Scholarships. b) Undertaken programs to facilitate more campus visit by prospective students and their parents. c) Setting up academic/career counselling centres throughout the state. d) Faculty conducted school visits for giving motivational lectures.
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 Alumni ties 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 using elive software for managing students and staff details and all administrative matters
Student Admission and Support	Vidya mangalam
Examination	KTU Exam cell Portal

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
No Data Entered/Not Applicable !!!				
No file uploaded.				

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)
2020	FDP on Modern Trends in Webtechnologies	NIL	03/06/2020	05/06/2020	18	Nil
2019	FDP on Machine Learning Artificial Intelligence	NIL	22/07/2019	26/07/2019	35	Nil
2019	3 days Faculty Development Program (FDP) for Student Induction Program for AICTE approved Institutions	3 days Faculty Development Program (FDP) for Student Induction Program for AICTE approved Institutions	27/11/2019	29/11/2019	9	1
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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
FDP on Modern Trends in Webtechnologies	18	03/06/2020	05/06/2020	5
FDP on Machine Learning Artificial Intelligence	35	22/07/2019	26/07/2019	5
Student Induction Programme	10	27/11/2019	29/11/2019	3
Nanomaterials in concrete	4	17/12/2019	22/12/2019	5
Effective tool For Efficient Teaching	1	29/05/2020	31/05/2020	3
Outcome Based Education	1	29/08/2019	29/08/2019	1
FDP for Student Induction(FDP-SI)	3	27/11/2019	29/11/2019	3
Evolutionary multi Objective Optimization using NSGA II	1	19/06/2020	19/06/2020	1
Preparation of Question Bank and online generation of Question papers for MBA examinations	1	09/10/2019	10/10/2019	2
FDP on Social Entrepreneurship: Business Innovation for Social Transformation	1	25/07/2019	27/07/2019	3
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6.3.4 – Faculty and Staff recruitment (no. for permanent recruitment):

Teaching		Non-teaching	
Permanent	Full Time	Permanent	Full Time
128	128	21	21

6.3.5 – Welfare schemes for

Teaching	Non-teaching	Students
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
No Data Entered/Not Applicable !!!		
No file uploaded.		

6.4.3 – Total corpus fund generated

0

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 CELL
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. 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

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 ? 1 Giving proper training to the lab staff in frequent intervals inorder to do the innovative activities introduced by the university ? 2 . 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)

Planned to organize national level Faculty development Programmes ? ? 2. Supporting students to appear for online NPTEL courses. ? ? 3. Planned to organize excel workshop for students

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	Induction Program for first years	15/07/2019	15/07/2019	20/07/2019	358
2019	Regular IQAC meetings held quatlerly a year	07/08/2019	07/08/2019	22/07/2020	14
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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. ? Environment club named ENCON club -planting trees, Placing waste bins by Rotary club

7.1.3 – Differently abled (Divyangjan) friendliness

Item facilities	Yes/No	Number of beneficiaries
Physical facilities	Yes	1676
Provision for lift	Yes	1676
Ramp/Rails	Yes	1676
Rest Rooms	Yes	1676

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
2019	1	1	05/08/2019	52	Swatch bharath season 2	creating awareness among the near by school students in renewable resources of earth	65
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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	01/08/2019	GENERAL INSTRUCTIONS FOR NEWLY ADMITTED STUDENTS
HUMAN DISCIPLINE IN LIFE	10/12/2019	HANDBOOK SHARED WITH ALL STUDENTS

7.1.6 – Activities conducted for promotion of universal Values and Ethics

Activity	Duration From	Duration To	Number of participants
Induction and orientation program or first years	15/07/2019	09/08/2019	358
Swatch bharath season 2 : creating awareness among the near by school students in renewable resources of earth	05/08/2019	27/09/2019	300
collage competition conducted as a part of National	22/02/2020	22/02/2020	121

science day celebrations			
IOT workshop	20/01/2020	21/01/2020	29
Workshp on human values	23/07/2019	23/07/2019	24

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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 Sir Albert Howard Clava club for organic farming Planting plants in departments

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

<https://engineering.mangalam.edu.in/>

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

<https://engineering.mangalam.edu.in/>

8.Future Plans of Actions for Next Academic Year

The future plans are: 1. To increase the usage of ICT tools for online teaching and remedial as COVID 19 pandemic is affecting normal education process. 2. Plan of installation of one number 102.4kWp, 3 phase solar power plant and connected electrics at the premises of mangalam educational society, mangalam hills is going on. 3. Plan to Attain the NBA accreditation for all engineering branches and paper work is going on. 4. Plan to start Diploma based courses in various branches. 5. Plan to conduct international conferences in various departments