



Yearly Status Report - 2017-2018

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. J M Mathana
Designation	Principal
Does the Institution function from own campus	Yes
Phone no/Alternate Phone no.	04812533711
Mobile no.	9840376236
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			private																
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/IOAC/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/KTU%20-%202017-18.pdf																
5. Accreditation 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 Accreditation</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 Accreditation	Validity		Period From	Period To	1	B+	2.52	2017	22-Feb-2017	21-Feb-2022
Cycle	Grade	CGPA	Year of Accreditation	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>International Multi-</td> <td>26-Apr-2018</td> <td>200</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	International Multi-	26-Apr-2018	200					
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Item /Title of the quality initiative by IQAC	Date & Duration	Number of participants/ beneficiaries																	
International Multi-	26-Apr-2018	200																	

Conference on Computing, Communication, Electrical & Nanotechnology (I2CN-2K18)	2	
SS12 IEEE INTERNATIONAL INNOVATION: project competition And maker fair 2017	27-Jul-2017 1	150
MATHS CLUB - 2017	11-Jul-2017 1	150
NBA team meeting	12-Oct-2017 1	150
One Day Workshop on	28-Feb-2018 1	150
Alumni meet	26-Jan-2018 1	100
Distinguished Lecture on	17-Mar-2018 1	150
NATIONAL SCIENCE DAY CELEBRATIONS CIENCIA 2K18 SEMINAR AND SCIENCE COMPETITIONS	22-Feb-2018 1	150
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
MANGALAM COLLEGE OF ENGINEERING	PROJECTS	KSCSTE	2017 180	25000
MANGALAM COLLEGE OF ENGINEERING	PROJECTS	KSCSTE	2017 180	7000
MANGALAM COLLEGE OF ENGINEERING	FDP	KTU	2018 5	200000
MANGALAM COLLEGE OF ENGINEERING	TRAVELLING FAIR	MANAGEMENT	2017 1	5000
View File				

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 :	2
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)
<p>The significant contributions made by IQAC during the academic year 2017_18 are as follows:</p> <ul style="list-style-type: none"> • Made one NPTEL course mandatory for all faculty. They had the choice to choose the course. • Restructured the IQAC in the lines of NAAC guidelines. • Introduced reforms in internal assessment Question paper setting. • Produced a course diary for all faculty to use for recording the course activity. • Encourage use of ICT in teaching learning. • Mangalam College of Engineering hosted the first International conference under EEE department

View File

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
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Plan of Action	Achivements/Outcomes
Encourage faculty to take up Research	New faculties have applied for PhD.
Introduce more ICT into teaching learning process	New courses have used ICT.
Streamline the teaching learning process for a better outcome based education.	Sufficient changes have been brought in to improve the outcome.
Restructure IQAC along the NAAC guidelines	DONE
Encourage faculty to attend atleast 1 NPTEL course per year	DONE
Conduct the first International Conference	International conference has been conducted.
View File	

14. Whether AQAR was placed before statutory body ?	Yes
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Name of Statutory Body	Meeting Date
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MANAGEMENT OF MANGALAM COLLEGE OF ENGINEERING	04-Dec-2018
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)	The Management Information system of Mangalam college of Engineering is called 'elive'. The Major Modules of elive and their purpose are listed below: Academic Module: • Attendance Record of students • Course mapping • Classes taken • Labs conducted • Examination Results • Student registration Details • Internal Evaluation of students HR module • Faculty Staff Attendance. • Leave of staff

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	01/08/2017	5	Employability	Designing
CAD	Nil	30/08/2017	5	Employability	Designing
PROTEUS	Nil	12/08/2017	5	Employability	Software Design
LaTeX	Nil	12/08/2017	5	Employability	Software Design
CAD	Nil	12/08/2017	5	Employability	Software Design
ETAP	Nil	20/01/2018	5	Employability	Software Design
HDL Design	Nil	20/06/2017	5	Employability	Software Design
2D to 3D IC-change in trends in semiconductor IC design	Nil	24/06/2017	5	Employability	Software Design
Course on Autocad 2D 3D	Nil	04/08/2017	5	Employability	Designing
Course on Revit Arch.	Nil	05/12/2017	5	Employability	Designing
PC Hardware and Networking	Nil	04/08/2017	5	Employability	Designing
Certification on Python	Nil	04/08/2017	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 !!!		
No file uploaded.		

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
No Data Entered/Not Applicable !!!		

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

	Certificate	Diploma Course
No Data Entered/Not Applicable !!!		

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

1.3.2 – Field Projects / Internships under taken during the year

Project/Programme Title	Programme Specialization	No. of students enrolled for Field Projects / Internships
No Data Entered/Not Applicable !!!		
No file uploaded.		

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 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</p>

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
BTech	MECHANICAL ENGINEERING	120	142	122
BTech	CIVIL ENGINEERING	120	138	120
BTech	COMPUTER SCIENCE ENGINEERING	120	80	80
BTech	ELECTRICAL AND ELECTRONICS ENGINEERING	60	38	38
MBA	MBA	60	57	57
BTech	ELECTRONICS AND COMMUNICATIONS	90	45	45
View File				

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
2017	405	85	136	24	14

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
160	70	25	44	Nil	15
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 Sevrices,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
490	160	1:3

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
160	152	8	8	Nil

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
2017	BENPHIL C MATHEW	Assistant Professor	NPTEL
2017	Shoma Mani	Assistant Professor	NPTEL
2017	Eugene Peter	Assistant Professor	NPTEL
2017	Subha Sreekumar	Assistant Professor	NPTEL
View File			

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
BTech	BTECH	S6	17/05/2018	08/10/2018
BTech	BTECH	S4	29/06/2018	22/08/2018
BTech	BTECH	S2	19/06/2018	01/08/2018
BTech	BTECH	S7	20/12/2017	26/03/2018
BTech	BTECH	S5	19/12/2017	28/03/2018
BTech	BTECH	S3	19/12/2017	08/03/2018
BTech	BTECH	S1	18/12/2017	16/02/2018
View File				

2.5.2 – Reforms initiated on Continuous Internal Evaluation(CIE) system at the institutional level (250 words)

The IQAC monitors the teaching learning process by: ? Collecting the course information sheet , for each course, at the start of the semester. The Course information sheet contains the various process to map the course objectives and outcomes to the vision and mission of the department and college. ? Monthly audit of the course file and course diary. ? Question paper scrutiny for internal assessment. The IQAC evaluates the teaching learning process by: ? Collecting the FCAR (Faculty course assessment report) for each course after the publishing of the final result. The FCAR contains the detailed evaluation of the attainment of targets for the achievement of course objectives. ? The faculty Feedback of the student helps in evaluating and advising corrective measures. ? Collecting the Annual Faculty self-assessment report. IQAC does all these process through its departmental representative in the Department Quality Assurance Cell or DQAC.

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

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.

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

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	BTech	ME	122	38	31.14
B.Tech	BTech	CE	120	63	52.5
B.Tech	BTech	CSE	80	50	62.5
B.Tech	BTech	ECE	45	13	28.8
B.Tech	BTech	EEE	38	24	63.16
MBA	MBA	MBA	57	49	87

[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://mangalam.ac.in/mlmce/iqac/>

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
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Any Other (Specify)	5	KTU	2	1.4
Any Other (Specify)	1	MANAGEMENT	0.05	0.05
Minor Projects	180	KSCSTE	0.07	0.07
Major Projects	180	KSCSTE	0.25	0.2
View File				

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
No Data Entered/Not Applicable !!!		

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
Mechanical Rayot	Mr.Binny Kuriakose	College Level	18/08/2017	Automobile
SMART DESPENSARY	Mr. Ananthakrishnan J	IIT Bombay	18/03/2018	Hackathon
IOT Challenge	ANADHU SREENIVASAN	IIT Bombay	18/03/2018	Hackathon
View File				

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
19		

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

Name of the Department	Number of PhD's Awarded
No Data Entered/Not Applicable !!!	

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	CSE	7	Nill
View File			

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
MBA	2
ELECTRONICS AND COMMUNICATION	1
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
No Data Entered/Not Applicable !!!						
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
No Data Entered/Not Applicable !!!						
No file uploaded.						

3.3.7 – Faculty participation in Seminars/Conferences and Symposia during the year :

Number of Faculty	International	National	State	Local
Attended/Seminars/Workshops	Nill	1	Nill	Nill
Presented papers	38	Nill	Nill	Nill
View File				

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
NSS	UNIVERSITY LEVEL	1	20
NSS	STATE LEVEL	1	6
NSS	NATIONAL LEVEL	1	10
View File			

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
NSS	UNIVERSITY LEVEL	UNIVERSITY LEVEL	1
NSS	STATE LEVEL	STATE LEVEL	2

NSS	NATIONAL LEVEL	NATIONAL LEVEL	2
View File			

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
No Data Entered/Not Applicable !!!				
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
Auto cad training	Mr.Ajayakumar	MLMCE	1
View File			

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

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
43603350	22506750

4.1.2 – Details of augmentation in infrastructure facilities during the year

Facilities	Existing or Newly Added
Classrooms with LCD facilities	Existing
Seminar Halls	Newly Added
Laboratories	Existing
Class rooms	Existing

Campus Area	Existing
View File	

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
Nill	Nill	Nill	2022

4.2.2 – Library Services

Library Service Type	Existing		Newly Added		Total	
Text Books	28372	1390215	900	218377	29272	1608592
Reference Books	3664	800172	65	4850	3729	805022
e-Books	45	Nill	Nill	Nill	45	Nill
Journals	96	281115	19	57000	115	338115
e-Journals	1	506000	Nill	Nill	1	506000
CD & Video	290	Nill	Nill	Nill	290	Nill
View File						

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 !!!			
View File			

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	846	18	64	1	1	2	7	64	5
Added	1	0	36	1	0	0	0	36	0
Total	847	18	100	2	1	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
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	recording facility
Mangalam Respository	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
37238610	35246520	43603350	22506750

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/1FAIpQLSc4TYKdxpm6IZpC0EAFVbyEvCO1I62R_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	MANGALAM MANAGEMENT	318	6375900
Financial Support from Other Sources			
a) National	GOVERNMENT	23	644000
b) International	NIL	Nil	0
View File			

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

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 passed in the comp. exam	Number of students placed
2017	COMPETITIVE COACHING	324	272	2	180
View File					

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
2	2	10

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
53	230	110	Nil	Nil	70
View File					

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

Year	Number of students enrolling into higher education	Programme graduated from	Department graduated from	Name of institution joined	Name of programme admitted to
No Data Entered/Not Applicable !!!					
No file uploaded.					

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	1
NET	1
View File	

5.2.4 – Sports and cultural activities / competitions organised at the institution level during the year

Activity	Level	Number of Participants
SPORTS	UNIVERSITY LEVEL	45
SPORTS	NATIONAL LEVEL	41
CULTURAL	UNIVERSITY LEVEL	85
CULTURAL	NATIONAL LEVEL	35
View File		

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 !!!						
No file uploaded.						

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

• The Students Union is the most important body representing all the students of the College. • The Students' Council of the College was formed as per the guidelines of the University. • The College has a dynamic Student Council and Student Representatives that serve on different Committees of the College. • The Student Council is an elected body, governed by a constitution that defines its functions and role. The two Hostels of the College have a separate Student Council elected exclusively by the students of the Hostels. • In addition, there is an elected body of Student Representatives for all Extra-Curricular Activity, Co-Curricular Activity . • The College Student Council in consultation with its Faculty Advisor and Faculty Advisory Committee organizes major events in the College, such as, Orientation Day for the New Entrants in the beginning of the Academic Session, National Events like, Republic Day, Independence Day. • College Festival – Saptarang Art Fest. The Student Representatives in consultation with their respective Faculty Advisors organize activities. • Student Representatives also help to organize co-curricular and extension activities on platforms like Discussion Forum, ECO Club, Gender Sensitization and Women's Development Cell, Sports, NSS Units .

5.4.2 – No. of enrolled Alumni:

531

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 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 faculties 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.
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
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 learning. d) Remedy classes for the weak in studies.
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.
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.
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.
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 The following are some of the quality improvement strategies, in Examination and evaluation, adopted by the institution. a) Give more opportunity to Alumni to appear in interview for the faculty recruitment. b) Give preference to candidates who have valid GATE/NET scores. c) Give additional marks to experienced candidates for interview.
Industry Interaction / Collaboration	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.

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
2018	Vilbin Varghese	CTCM	Nill	2000
2018	Gokul P. V.	CTCM	Nill	2000
2018	Reni Kuruvilla	CTCM	Nill	2000
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)
No Data Entered/Not Applicable !!!						
No file uploaded.						

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
No Data Entered/Not Applicable !!!				

No file uploaded.

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

Teaching		Non-teaching	
Permanent	Full Time	Permanent	Full Time
160	160	46	46

6.3.5 – Welfare schemes for

Teaching	Non-teaching	Students
STAFF CLUB ACTIVITES	GROUP INSURANCE E POLICY	SCHOLARSHIP SCHEMES

6.4 – Financial Management and Resource Mobilization

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

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

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	KTU	Yes	IQAC
Administrative	Yes	KTU	Yes	HEAD OFFICE

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: ? Admission Support. ? PTA members are active in college council and Department advisory committee. ? PTA members are supportive in building Industry-Institute intraction.

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

Development programmes for support staff Staff members are encouraged to regularly upgrade their knowledge through: ? SDPs and training programmes. ?

Staff counselling. ? Online courses.

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

- Activities to enhance research through national and international conferences and encourage faculties to register various PhD programmes.
- Encourages all Departments to enhance professional body activities to reach the technical expertise to the society.
- Active discussions are initiated with the software development firm to improve the capability of the MIS (elive) system now exist in the college. This will enhance the productivity of the academic environment.

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
2018	International Multi-Conference on Computing, Communication, Electrical Nanotechnology (I2CN-2K18)	26/04/2018	26/04/2018	27/04/2018	200
2017	SS12 IEEE INTERNATIONAL INNOVATION: project competition And maker fair 2017	27/07/2017	27/07/2017	27/07/2017	150
2017	MATHS CLUB - 2017	11/07/2017	11/07/2017	11/07/2017	150
2017	Sahodaya Sarga Sangamam 2017	05/10/2017	05/10/2017	07/10/2017	1000
2017	NBA team meeting	12/10/2017	12/10/2017	12/10/2017	150
2018	One Day Workshop on "Research Methodology - Writing Effective Research Articles"	28/02/2018	28/02/2018	28/02/2018	150

2018	Alumni meet	26/01/2018	26/01/2018	26/01/2018	150
2018	Distinguished Lecture on SPACE AND BEYOND "Nano technology: Boon or Bane for the society" by Prof. Kuruvilla Joseph, Dean (Student Activities)	17/03/2018	17/03/2018	17/03/2018	150
2018	NATIONAL SCIENCE DAY CELEBRATIONS CIENCIA 2K18 SEMINAR AND SCIENCE COMPETITIONS	22/02/2018	22/02/2018	22/02/2018	150
No file uploaded.					

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
Contribution to environmental awareness / protection ? A hybrid air conditioning system which utilises both solar and electrical energy has been installed. ? Celebrated energy conservation day and conducted an awareness programme for staff on the importance of power saving. ? Steps taken to bring down the use of paper. ? Planted more trees in the campus. ? Effort to make campus with low plastic usage.

7.1.3 – Differently abled (Divyangjan) friendliness

Item facilities	Yes/No	Number of beneficiaries
Physical facilities	Yes	1341
Provision for lift	Yes	1341
Rest Rooms	Yes	1341
Ramp/Rails	Yes	1341

7.1.4 – Inclusion and Situatedness

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

No file uploaded.

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

Title	Date of publication	Follow up(max 100 words)
No Data Entered/Not Applicable !!!		

7.1.6 – Activities conducted for promotion of universal Values and Ethics

Activity	Duration From	Duration To	Number of participants
No Data Entered/Not Applicable !!!			
No file uploaded.			

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

Contribution to environmental awareness / protection ? A hybrid air conditioning system which utilises both solar and electrical energy has been installed. ? Celebrated energy conservation day and conducted an awareness programme for staff on the importance of power saving. ? Steps taken to bring down the use of paper. ? Planted more trees in the campus. ? Effort to make campus with low plastic usage.

7.2 – Best Practices

7.2.1 – Describe at least two institutional best practices

? 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. Give details. 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

8.Future Plans of Actions for Next Academic Year

Academic 1. The institution is planning to go for National Board of Accreditation for all the programmes. 2. To strengthen teaching and learning process of students by introducing different pedagogy methods to improve the outcome based education. 3. To improve the technical knowledge of faculty members, the institution insists that they have to participate or conduct FDP's in the field of their expertise. 4. To improve the technical skills, students have to participate n various technical symposium and conferences conducted by different technical institution across the world. Research 1. The institution is planning for getting the approval for a centre of research from API, Abdul kalam Technological University for all the programmes. 2. Conduction of international Conferences, which provides an opportunity different academicians and researchers, come under one platform to share their knowledge. 3. To improve the research publications of the institution, the faculty members are encouraged to publish their research article with high impact factor journal (SCOPUS ,SCI). and instructed to submit their proposal for different funding agencies for sanction. 4. By conducting project exhibition, identify good project with social relevance, to serve different community across the country. 5. Encourage the faculty and students go for patent for their innovation. 6. To get the Center of Excellence the field of computing like Google Cloud platform, AWS, Machine Learning and Block Chain and in Robotics Embedded system. 7. To establish IEEE students Branch Chapter other professional bodies for all the departments.