



Yearly Status Report - 2017-2018

Part A

Data of the Institution

Part A	
Data of the Institution	
1. Name of the Institution	MAR EPHRAEM COLLEGE OF ENGINEERING AND TECHNOLOGY
Name of the head of the Institution	Prof. Dr. A. Lenin Fred
Designation	Principal
Does the Institution function from own campus	Yes
Phone no/Alternate Phone no.	04651271111
Mobile no.	9442448111
Registered Email	iqac@marephraem.edu.in
Alternate Email	marephraem@gmail.com
Address	Malankara Hills, Elavuvilai, Marthandam.
City/Town	Marthandam
State/UT	Tamil Nadu
Pincode	629171

2. Institutional Status					
Affiliated / Constituent			Affiliated		
Type of Institution			Co-education		
Location			Rural		
Financial Status			private		
Name of the IQAC co-ordinator/Director			Mr. J.Bright Brabin Winsely		
Phone no/Alternate Phone no.			04651272158		
Mobile no.			9444895594		
Registered Email			iqac@marephraem.edu.in		
Alternate Email			marephraem@gmail.com		
3. Website Address					
Web-link of the AQAR: (Previous Academic Year)			http://www.marephraem.edu.in/pages/iqac/aqar2017-2018.pdf		
4. Whether Academic Calendar prepared during the year			No		
5. Accreditation Details					
Cycle	Grade	CGPA	Year of Accreditation	Validity	
				Period From	Period To
1	B+	2.60	2017	12-Dec-2017	11-Sep-2022
6. Date of Establishment of IQAC			03-Oct-2016		
7. Internal Quality Assurance System					
Quality initiatives by IQAC during the year for promoting quality culture					
Item /Title of the quality initiative by IQAC		Date & Duration		Number of participants/ beneficiaries	
Outcome based Teaching and Learning		23-Oct-2017 7		110	
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8. Provide the list of funds by Central/ State Government- UGC/CSIR/DST/DBT/ICMR/TEQIP/World Bank/CPE of UGC etc.

Institution/Department/Faculty	Scheme	Funding Agency	Year of award with duration	Amount
No Data Entered/Not Applicable!!!				
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9. Whether composition of IQAC as per latest NAAC guidelines:

Yes

Upload latest notification of formation of IQAC

[View Link](#)

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 Uploaded 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)

1. Strategic plan for the institution was prepared. 2. Various clubs were formed to promote cocurricular and extra curricular activities. 3. Evaluation scheme for Continuous Assessment Examination and attendance through centralized Management Information System (MIS). 4. Comprehensive feedback analysis through MIS. 5. Quality Improvement is improved by taking adequate steps for all schools for NBA accreditation. 6. Faculty development programme on Collaborative and advanced MSOffice Techniques on 21/02/2018 By IQAC

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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
Course File	Quality of Course plan and delivery has improved through MI.
NBA Accreditation	Adequate steps are taken to apply for Civil, Mechanical, CSE
Each department has to apply and obtain at least one major project, one minor	One funded project by DST has been sanctioned.

project and one student project	
Awareness about gate and Higher studies	Centralized coaching for GATE was conducted. 68 students registered. We motivate all the students to write GATE and decided to conduct model GATE examination.
Each department has to conduct value added course and online course	The academic year 2017-2018 9 value added course were conducted to all department.
Each faculty has to attend one relevant FDP of one week duration per year in reputed institution during summer/winter vacation	Faculty members have attended around 37 FDPs, mostly online and offline.
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14. Whether AQAR was placed before statutory body ?	Yes
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Name of Statutory Body	Meeting Date
Management	07-Apr-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	2018
Date of Submission	07-Feb-2018
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)	We have a well defined MIS to monitor the system. Evaluation scheme for Continuous Assessment Examinations and attendance are monitored through centralized Management Information System (MIS). Quality Improvement in course file is done through MIS. The attendance and assessment monitoring with detailed analysis is done through centralized MIS and transparency is prevailed. CAE Questions are mapped with cognitive level of learning, course outcomes and program outcomes through MIS. Course preparation and delivery are monitored and made effective through MIS.

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 have a sound approach in delivering the content to address and eliminate the skills gap to give students a seamless and transparent pathway toward achieving remarkable positions in reputed industries. We have been lending our ears to the experts from industry to understand the expectations of the rapidly changing industry. We have given space to the interaction sessions between the industry experts and the students of our institution to provide the students a firsthand experience about the expectations of the employers. In order to identify and understand the skills required by employers we have forums where an employer representative can experience the institution's commitment and communicate their knowledge of required skills. The teachers of our institution are aware of the updates that take place in the industry every day, and they are able to motivate and guide the students in the right lane. We are taking a sharper focus on reducing or eliminating the skills gap, and in creating more meaningful educational and training opportunities in general. Due to that, potential employees can be well prepared with the skills and abilities that are needed and in high demand by potential employers.

1.1.2 – Certificate/ Diploma Courses introduced during the academic year

Certificate	Diploma Courses	Dates of Introduction	Duration	Focus on employ ability/entreprene urship	Skill Development
Certificate course on Computer Hardware and Networking	Nil	11/07/2017	5	employabil ity	Computer Hardware and Networking
Revit architecture	Nil	17/07/2017	5	entreprene urship	Revit architecture
Certificate course on Programming foundations with javascript, HTML	Nil	26/07/2017	5	employabil ity	Programming foundations with javascript, HTML
Revit MEP	Nil	02/08/2017	5	entreprene urship	MEP
E-CAD	Nil	07/08/2017	5	employabil ity	E-CAD
Auto CAD	Nil	23/08/2017	5	entreprene urship	Auto CAD
Communicat ive skills	Nil	18/10/2017	5	employabil ity	Communicat ive skills
Basics	Nil	15/11/2017	5	entreprene	Basics

Electronics				urship	Electronics
IOT Node	Nil	05/02/2018	5	employabil	IOT Node
MCUIOT Node				ity	MCU
MCU					
VLSI	Nil	22/01/2018	5	entreprene	VLSI
circuit				urship	circuit
design using					design using
verilog HDL					verilog HDL

1.2 – Academic Flexibility

1.2.1 – New programmes/courses introduced during the academic year

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

Name of programmes adopting CBCS	Programme Specialization	Date of implementation of CBCS/Elective Course System
BE	Electronics and communication Engineering	17/07/2017
BE	Civil Engineering	17/07/2017
BE	Mechanical Engineering	17/07/2017
BE	Electrical and electronics Engineering	17/07/2017
BE	Computer Science and Engineering	17/07/2017
ME	Applied Electronics	17/07/2017
ME	Manufacturing	17/07/2017
ME	Computer Science	17/07/2017

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

	Certificate	Diploma Course
Number of Students	1180	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
Value added course on Java programming	16/08/2017	66
Modeling using High End Software -CATIA	14/09/2017	35
Reasoning skills and aptitude	16/10/2017	280
Arduino and Robots	18/09/2017	30
Embedded Arduino Controller	12/02/2018	40

Domestic and industrial wiring	22/01/2018	35
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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
BE	Civil Engineering	83
BE	Computer Science and Engineering	37
BE	Electronics and communication Engineering	38
BE	Electrical and Electronics Engineering	71
BE	Mechanical Engineering	265
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1.4 – Feedback System

1.4.1 – Whether structured feedback received from all the stakeholders.

Students	Yes
Teachers	Yes
Employers	Yes
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 feedback is obtained during the final weeks of the semester. The students would participate in giving the feedback online. The feedback is analysed to establish the improvements on action initiated after the formative feedback. The reasons for the said performances are identified by the individual faculty/department/institution and actions are strategized to eliminate the causes of disruption. The actions are implemented subsequently A feedback to evaluate the facilities provided by the institution and the ambience provided for student centric learning is obtained at the end of the program every year from the outgoing final year students. The results are analysed, corrective and preventive actions are initiated to overcome any flaw/s indicated by the said feedback. Also feedbacks are obtained from alumni towards their possible contribution to curriculum development/curriculum enlargement/enrichment, to support our students in employment and creating awareness of expectations of the industry in fresh graduates. The obtained feedback is analysed and the action taken report is prepared and corrective actions are implemented subsequently.</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
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BE	Civil Engineering	132	122	122
BE	Computer Science and Engineering	66	50	50
BE	Electrical and Electronics Engineering	66	40	40
BE	Electronics and communication Engineering	66	25	25
BE	Mechanical Engineering	132	128	128
ME	Applied Electronics	18	16	16
ME	Computer Science and Engineering	18	6	6
ME	Manufacturing Engineering	18	13	13
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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
2017	1446	70	120	4	10

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
134	134	52	54	50	42
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2.3.2 – Students mentoring system available in the institution? Give details. (maximum 500 words)

The institution has a sophisticated mentoring system. There is a total of 1306 students in this mentoring system. There is one faculty for every twelve students thus making the staff student ratio to be 1:12. the mentors meet the mentees regularly and take their feedback and analyze the potential problems. The mentors are also responsible for providing adequate support for their mentees in terms of studies, moral support and motivational support. in order to make the mentoring system more efficient, the timetable is built in with a mentor hour. This hour is exclusively for the personal interaction with the mentees. apart from this hour, mentees are also free to meet their mentors any time. Moreover, the mentors holds all the educational, personal and family details of their

mentees. The mentors travels throughout students span in the institution and event after they pass out if necessary.

Number of students enrolled in the institution	Number of fulltime teachers	Mentor : Mentee Ratio
1446	134	1:11

2.4 – Teacher Profile and Quality

2.4.1 – Number of full time teachers appointed during the year

No. of sanctioned positions	No. of filled positions	Vacant positions	Positions filled during the current year	No. of faculty with Ph.D
134	134	0	2	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
No Data Entered/Not Applicable !!!			
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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
BE	103	7	20/10/2017	29/12/2017
BE	104	7	20/10/2017	29/12/2017
BE	105	7	20/10/2017	29/12/2017
BE	106	7	20/10/2017	29/12/2017
BE	114	7	20/10/2017	29/12/2017
ME	401	3	20/10/2017	29/12/2017
ME	405	3	20/10/2017	29/12/2017
ME	410	3	20/10/2017	29/12/2017
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2.5.2 – Reforms initiated on Continuous Internal Evaluation(CIE) system at the institutional level (250 words)

Two sets of questions are set by each teacher for each test and the school's Exam Cell coordinator makes a random choice of one of these for the test. Each question of the internal test is mapped with the course outcomes, programme outcomes and Blooms taxonomy learning levels. The Exam Cell coordinators ensure that the instructors set the question papers in the prescribed format. Quality of the question papers and answer keys are verified by the HoS and IQAC members. After every internal assessment test, the solutions of the questions are explained in the class by the course instructor. Answer sheets are evaluated and marks with detailed analysis coupled with the remedial measures are ensured. HoS randomly verifies the evaluated answer scripts and the marks entered in the college automation software. Assignments and seminars are used

to kindle the creativity of advanced learners. IQAC monitors the overall activities related to examination and evaluation performances.

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

An academic calendar is prepared by the designated coordinator at the beginning of odd and even semester. This includes the academic activities at the college level. The draft calendar is discussed in Academic council meeting and all the suggestions which are approved in the meeting is incorporated before releasing the calendar to all Schools. All the internal assessment tests are conducted centrally as per the academic calendar. Formative and summative feedback is administered as per the schedule. All other activities like Scholarship award function, Cultural day, Project Exhibition etc. are celebrated as per the plan. In case of any eventuality/emergency a particular event may be rescheduled with the permission of the head of the institution

2.6 – Student Performance and Learning Outcomes

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

<http://www.marephraem.edu.in/pages/schools/electrical-electronics-engineering/eee-peo-po.php?id=33>

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
103	BE	Civil Engineering	125	36	28.8
104	BE	Computer Science Engineering	45	27	60
105	BE	Electrical and Electronics Engineering	38	26	68.4
106	BE	Electronics and communication Engineering	45	26	58
114	BE	Mechanical Engineering	138	80	58
401	ME	Applied Electronics	17	17	100
405	ME	Computer science and Engineering	7	6	85
410	ME	Manufacturing Engineering	12	12	100

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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)

<http://www.marephraem.edu.in/>

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
Major Projects	1095	DST	54.47	20.14
Major Projects	1095	DST	37.69	15.13
Interdisciplinary Projects	1095	DST	34.38	21.66
Projects sponsored by the University	730	NTU Singapore	2	0.69
Major Projects	365	DST	26	22
Major Projects	365	DST	0.6	0.6
Major Projects	730	AICTE	2.66	2.66
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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 business model preparation	Mechanical Engineering	08/11/2017
Seminar on intellectual property rights	Mechanical Engineering	09/01/2018
Seminar on recent research trends in industrial robotics	Mechanical Engineering	16/10/2017
Alumini interaction with succesful entrepreneur- Interactive Seminar	Civil Engineering	06/03/2019
Seminar on Waste Pyrolysis to fuel oil and waste plastic refining to oil technology	Civil Engineering	20/02/2018
Seminar with tutorial classes on reinforcement detailing	Civil Engineering	05/03/2018

Seminar on research based material selection for construction	Civil Engineering	02/02/2018
Industry institute interaction program on design of steel structures for challenging environment	Civil Engineering	19/03/2018
Workshop on Design of shear walls for challenging environmental conditions	Civil Engineering	18/09/2017
Workshop on MSP in construction in industry	Civil Engineering	16/12/2017
Workshop on Concrete mix design for varying strength	Civil Engineering	01/10/2017
Hands on training on angular java script	Computer Science and Engineering	25/08/2017
International conference on transnational medicine and imaging (ICTMI-2017)Vellore institute of technology, VIT University ,Vellore	Computer Science and Engineering	28/08/2017
One day workshop on the applications of microcontroller in the field of robotics	Computer Science and Engineering	03/10/2018
Seminar on Hastily formed network	Computer Science and Engineering	15/02/2018
Seminar on research methodology	Computer Science and Engineering	20/10/2017
Workshop on Agile Software development process, SCRUM	Computer Science and Engineering	02/06/2018
Workshop on Python programming in data structures	Computer Science and Engineering	09/09/2017
Guest lecture on digital electronics	Electrical and Electronics Engineering	17/04/2018
Workshop on Matlab application in image processing	Electrical and Electronics Engineering	07/10/2017
Workshop on python programming	Electrical and Electronics Engineering	15/02/2018
Seminar on digital signal process based Motor Control systems	Electrical and Electronics Engineering	23/08/2017
Two day workshop on Robotics -ARDUINO UNO	Electrical and Electronics Engineering	23/09/2017

controller		
National level technical symposium GENESYS 2K18	Electrical and Electronics Engineering	02/02/2018
Surveillance camera control system for innovation on border security	Electronics and communication Engineering	21/02/2018
Emerging technology trends for Organic Light emitting Diodes (OLEDs)	Electronics and communication Engineering	25/01/2018
Role of verilog programming in innovative projects	Electronics and communication Engineering	03/10/2017
Wearable bio sensors patent landscape	Electronics and communication Engineering	08/09/2017
Future enhancement of 5G network in research and innovation	Electronics and communication Engineering	05/10/2017
Workshop on Arduino and microcontroller	Electronics and Communication Engineering	05/10/2017
Workshop on PCB design	Electronics and Communication Engineering	15/09/2017
Workshop on Robotics	Electronics and Communication Engineering	07/02/2018
Workshop on CFD	Mechanical Engineering	24/03/2018
Workshop on Finite Element analysis-thermal analysis	Mechanical Engineering	02/02/2018
Entrepreneurship workshop on Auto mobile mechanisms and maintainance	Mechanical Engineering	15/02/2018
Workshop on effective market research	Mechanical Engineering	13/08/2017
Seminar on multiple solutions of real time engineering research	Mechanical Engineering	17/10/2017

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
NIL	Nil	Nil	Nil	Nil
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3.2.3 – No. of Incubation centre created, start-ups incubated on campus during the year

Incubation Center	Name	Sponsered 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
2	0	0

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

Name of the Department	Number of PhD's Awarded
Computer Science Engineering	3

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	Civil Enngineering	5	Nill
International	CSE	1	Nill
International	ECE	3	Nill
International	EEE	9	Nill
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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
ECE	3
No file uploaded.	

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
Flexural Performanc e of Geopolymer Concrete Modified with Pozzalone Minerals and Secondary Reinforcem ent	Anand Rejilin D R,Bravin Ebanesh	Journal of Computa tional and Theoretica l Nanoscience 15/04/1-11 2018	2018	Nill	Mar Ephraem college of engineerin g and technology	Nill
A prelim inary study on the physical properties of an alte rnative coarse	Bright Brabin Winsley	The Open Constructi on and Building Technology Journal	2017	Nill	Mar Ephraem college of engineerin g and technology	Nill

aggregate made with red soil and fly ash						
An efficient grey wolf optimization algorithm based extended kalman filtering technique for various image modalities restoration process	B. Baron Sam Lenin Fred A	Multimed Tools Appl ications	2018	Nill	Mar Ephraem college of engineerin g and technology	Nill
Sparse D ecompositi on Technique for Segmen tation and Compressio n of Compound Images	V.N.Manju, Lenin Fred A	Journal of Intelli gent Systems	2018	Nill	Mar Ephraem college of engineerin g and technology	Nill
AC coeff icient and K-means cuckoo opt imization algorithm-based segm entation and compre ssion of compound images	Vethamuthu Nesamony Manju, Alfred Lenin Fred A	IET Image Processing	2018	Nill	Mar Ephraem college of engineerin g and technology	Nill
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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
Feature level fusion using Physical	Jerusalin Carol .J, Lenin Fred A	Internat ional Journal of Biomedical Engineerin	2018	Nill	Nill	Mar Ephraem college of engineerin g and

biometric traits		g and Technology				technology
Biometric authentication of physical characteristics recognition using artificial neural network with PSO algorithm	Lazarus Nisha Evangelin, Alfred Lenin Fred	International Journal of Computer Applications in Technology	2018	Nill	Nill	Mar Ephraem college of engineering and technology
Towards optimal allocation of resources in cloud modified mapreduce using genetic algorithm	Dr. D. A rivudainambi, D.Dhanya	IIOAB	2017	Nill	Nill	Mar Ephraem college of engineering and technology
Scheduling optimized secured virtual machine using cuckoo search and flow analyzer	Dr. D. A rivudainambi, D.Dhanya	Journal of computational and Theoretical Nanoscience	2017	Nill	Nill	Mar Ephraem college of engineering and technology
A frame work of image Denoising Algorithm	Ms.Jonisha Miriam	Research Journal of Pharmaceutical, Biological and Chemical Sciences	2017	Nill	Nill	Mar Ephraem college of engineering and technology

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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	0	15	30	0
Presented papers	0	0	10	0
Resource	0	0	10	10

persons

No file uploaded.

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
ICTC visit	YRC Mar Ephraem	2	60
Aids Awareness Program	YRC Mar Ephraem	2	35
Awareness program on vermicompost and organic fertilizer	NSS Mar Ephraem	2	60
Awareness program on organic farming and green campus	NSS Mar Ephraem	2	52
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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
No Data Entered/Not Applicable !!!			
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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/Agen cy/collaborating agency	Name of the activity	Number of teachers participated in such activites	Number of students participated in such activites
ICTC visits	YRC Mar Ephraem	Nill	3	60
Aids Awareness Program	YRC Mar Ephraem	Nill	2	35
Awareness program on vermicompost and organic fertilizer	NSS Mar Ephraem	Nill	3	60
Awareness program on organic farming and green campus	NSS Mar Ephraem	Nill	2	52
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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
No Data Entered/Not Applicable !!!			
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3.5.2 – Linkages with institutions/industries for internship, on-the- job training, project work, sharing of research facilities etc. during the year

Nature of linkage	Title of the linkage	Name of the partnering institution/ industry /research lab with contact details	Duration From	Duration To	Participant
project work	final year project	G G Motors	28/02/2017	28/02/2018	89
Student training	value added course	Power lab Instruments, Chennai	20/08/2017	20/08/2018	32
project work	final year project	Vintech Systems Pvt Limited	14/09/2017	14/09/2018	33
On job training	placement	Vintech Systems Pvt Limited	29/08/2017	29/08/2018	30
project work	final year project	CADD centre, Marthandam	07/06/2017	07/06/2018	85
Student training	value added course	JBM auto Limited, Chennai	22/11/2017	22/11/2018	88
On job training	placement	Neel Industries P.Ltd, Chennai	24/11/2017	24/11/2018	90
Student training	value added course	Chara technologies, Chennai	24/11/2017	24/11/2018	94
On job training	placement	Machine care, Chennai	17/04/2017	17/04/2018	95
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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
Mar Ephraem Digital Solutions	20/11/2015	Provide skill development training for product development	15
Wolkite University, Ethiopia	04/07/2016	Conduction of short term added courses	16

Sree Tech, Madurai	19/10/2016	Internship	21
Nanyang Technolog y,Singapore	04/12/2017	Training	12
Nalam Health Care IT Solutions,Bengaluru	26/07/2017	Internship	16
CADD Centre ,Marthandam	28/07/2017	Internship	23
Concept Solution,Trivandrum	13/07/2017	Training	15
Eureka Forbes	10/02/2017	Training	14
JTR Fibers pvt LTD	24/09/2017	Training	18
Power lab instruments,Chennai	20/07/2018	Internship	20
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
200	196

4.1.2 – Details of augmentation in infrastructure facilities during the year

Facilities	Existing or Newly Added
Campus Area	Existing
Campus Area	Newly Added
Class rooms	Existing
Laboratories	Existing
Seminar Halls	Existing
Value of the equipment purchased during the year (rs. in lakhs)	Newly Added
Others	Existing
Others	Existing
No file uploaded.	

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
Infolibrary LMS	Fully	Web Version 13.0	2014

4.2.2 – Library Services

Library Service Type	Existing	Newly Added	Total

Text Books	10631	3664759	769	355475	11400	4020234
Reference Books	1309	517864	17	18320	1326	536184
Journals	51	117880	36	80650	87	198530
e-Journals	105	83000	0	0	105	83000
Digital Database	260	15500	66	0	326	15500
CD & Video	538	0	13	0	551	0
No file uploaded.						

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
Mrs. D.Dhanya	Data structures(Graph concept Dijkstras algorithm	http://marephcsenotes.blogspot.com/faculty-innovation	07/08/2017
Ms. D.S Renu	Design analysis of algorithms(Knapsack problem)	https://marepcsenotes.blogspot.com/faculty-innovation	03/01/2018
Ms. P. Innasi Lineta	Multi-core Architecture and programming (n-body solvers)	https://marepcsenotes.blogspot.com/faculty-innovation	07/01/2018
Ms. L.T.Herlin	computer networks(packet switching)	https://marepcsenotes.blogspot.com/faculty-innovation	10/08/2017
Dr.Jerusalín Carol	communication engineering (modulation and transmission of communication systems)	https://marepcsenotes.blogspot.com/faculty-innovation	10/08/2017
Dr. D. Dhanya	Cloud computing(Map Reduce)	https://marepcsenotes.blogspot.com/faculty-innovation	30/07/2017
Ms. Janila	Compiler design (phases of compiler)	https://marepcsenotes.blogspot.com/faculty-innovation	05/04/2017
Ms. Ashy V Daniel	Fundamentals of data structures in C(Stack,Queue)	https://marepcsenotes.blogspot.com/faculty-innovation	30/08/2017
Mr. Babu	Internet programming	https://marepcsenotes.blogspot.com/f	17/10/2017

	(Internet protocols)	aculty-innovation	
Mr. Ashwin Singerji	Software project management	https://marepcsenotes.blogspot.com/faculty-innovation	28/03/2018
No file uploaded.			

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	363	4	40	1	1	1	6	40	0
Added	5	0	10	0	0	0	0	10	0
Total	368	4	50	1	1	1	6	50	0

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

50 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
e-content recording centre	http://www.marephraem.edu.in/pages/resources/library-about-us.php?id=11

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
No Data Entered/Not Applicable !!!			

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 institution obtains the necessary requirements of class rooms, laboratories and other infrastructural resources from each Head of Schools well before the beginning of the academic year. After validation of the requirements in IQAC the available resources are allocated to each schools. Any new facility to be constructed / acquired is provided by the management before the semester begins. Wherever there exists a situation that a facility (a laboratory) is required by more than one schools suitable adjustments in the time table would make the optimal use of the laboratory a possibility.. Additional blocks for academic and administrative purposes have been constructed. Floors have been added to the existing blocks to enhance the facilities. Renovation of older blocks and modernization of laboratories have been done to meet the ever changing academic requirements. The buildings are maintained for their up-keep and repairs on a regular basis. The house keeping team regularly maintains the buildings, corridors and other places clean and tidy. The wash rooms are</p>

maintained by a team on a regular basis to maintain their usability. The Schools managed by their heads are responsible for maintaining the laboratory equipment for their operational conditions. Before the beginning of the academic year the HOS would prepare budget for repairs and maintenance in all their laboratories for the concerned academic year. They identify the agencies who would undertake the maintenance work and would get the equipment ready for operations before the beginning of every semester.

<http://www.marephraem.edu.in/pages/resources/amenities.php>

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	Institutional Scholarship	49	804000
Financial Support from Other Sources			
a) National	BC/MBC SC/ST Minority First Graduate	365	3442300
b) International	Nill	Nill	Nill
No file uploaded.			

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
Drafting using Auto Cad	28/08/2017	86	Cadd Centre, Marthandam
Analysing and Designing Stad Pro	01/09/2017	98	Cadd Centre, Marthandam
Workshop on Python Programming	09/04/2018	41	Mar Ephraem Digital Solutions
Workshop on matlab application on image processing	06/10/2017	38	Mar Ephraem Digital Solutions
Use of PSPICE in Electronics Industry Prototyping	09/08/2017	60	VI Microsystems
Application of MATLAB in Signal Processing	08/02/2018	65	Mar Ephraem Digital Solutions
Personality Development Training	22/01/2018	135	Dolphin Ladders, Bangalore
Workshop on Resume Preparation	03/10/2017	134	Yukthi Training Centre, Chennai
Pre Placement Training	16/10/2017	134	Cosmicone, Coimbatore

Workshop on Fundamentals of Microsoft Office	07/09/2017	123	Learn Easy, Kanyakumari
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	Gate awareness	265	Nill	Nill	Nill
2017	IAS orientation program	165	Nill	Nill	Nill
2017	civil service a dream career	146	Nill	Nill	Nill
2017	Seminar on GATE Awareness	45	Nill	Nill	Nill
2017	Higher Studies And Scholarship Opportunities Abroad	38	Nill	Nill	Nill
2017	Opportunities for civil engineers	98	Nill	Nill	Nill
2017	Job responsibilities	42	Nill	Nill	Nill
2017	Financial Management	86	Nill	Nill	Nill
2017	social responsibilities of an engineer	44	Nill	Nill	Nill
2017	Awareness on higher education in abroad	25	Nill	Nill	Nill
No file uploaded.					

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	3

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
Elcompo Electronics Industries Pvt LTD	35	15	Tech Mahindra Chennai	10	2
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
2018	2	Mar Ephraem College of engineering and Technology	Civil Engineering	Anna University Chennai	M.E- Structural Engineering
2018	1	Mar Ephraem College of Engineering and Technology	Civil Engineering	Christ University	M.E- Structural Engineering
2018	2	Mar Ephraem College of Engineering and Technology	Civil Engineering	Kerala Technical University	M.E- Structural Engineering & Construction Management
2018	1	Mar Ephraem College of Engineering and Technology	Civil Engineering	Canada	P.G diploma
2018	1	Mar Ephraem College of Engineering and Technology	Computer Science Engineering	University institute of Management	MBA
2018	2	Mar Ephraem College of Engineering and Technology	Computer Science Engineering	Mar Ephraem College of Engineering and Technology	M.E- Computer Science & Engineering

2018	2	Mar Ephraem College of Engineering and Technology	Electrical and Electronics Engineering	Kerala University	MBA
2018	6	Mar Ephraem College of Engineering and Technology	Electronics and Communication Engineering	Mar Ephraem College of Engineering and Technology	M.E Applied Electronics
2018	1	Mar Ephraem College of Engineering and Technology	Mechanical Engineering	Kochi Business School, Ernakulam	MBA
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
Any Other	5
No file uploaded.	

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

Activity	Level	Number of Participants
Sports	State	18
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
2017	Zonal level football tournament	National	1	Nill	Nill	Bobby Thomas
2017	Zonal level football tournament	National	1	Nill	Nill	Arun Philip
2017	Zonal level football tournament	National	1	Nill	Nill	Jobin Ponnachan
2017	Zonal level football	National	1	Nill	Nill	Yadhu Krishna

	tournament					
2018	Badminton	National	1	Nill	Nill	Geena Merlin Shaji
2018	Throwball	National	1	Nill	Nill	Yeethlin Joy G.G
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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)

Class Committee A Class Committee job is to make sure that all of the class curricular and extracurricular activities run well and that the class as a whole is being monitored. Class Representatives guarantee that students' opinions on academic subjects are heard, fostering a positive learning environment. Hostel and Mess Committee Members of the ladies and gents hostels are represented on this committee. They serve as a link between the administration, caterers, and hostel officials, as well as the students. The Mess Student Committee is in charge of ensuring that the mess facilities run smoothly. Transport Committee There is a transport officer who assists the staff in-charge of the bus in disciplining and avoiding any misbehavior that may disturb the driver. Women grievance redressal committee There is a women redressal committee in our campus with the objective of awareness about "Gender Sensitization Prevention Prohibition of Sexual Harassment of women employee and student, and redressal of Grievances". It functions very effectively with a team comprising staff and students. They also conduct awareness programmes, seminars and various activities periodically. Placement Cell Our college's full-fledged Placement Cell is always monitoring the career prospects available in numerous fields and scheduling campus interviews for qualified students. There is a student placement officer who provides students with their contact information for enrollment, so that they can be a facilitator between the student, the college and the placement cell. Youth Red Cross(YRC) The Youth Red Cross of our campus develops the mental and moral capacities of the Youth. It has its own goal of donating blood for the needy through blood donation camps and care the physical health of students. It works well as a team that includes staff and students. Regularly, we have awareness programs, and other events. National Cadet Corps(NCC) Mar Ephraem NCC unit is established in our campus to develop the practice of the principles that the College has emphasized as part of its aims and objectives. Character, courage, comradeship, discipline, adventure, sportsmanship, and the principle of unselfish service are all stressed in the modules to help pupils become valuable and responsible citizens. National Service Scheme (NSS) NSS of Mar Ephraem has been rendering yeoman service to the society. The overall objective of the scheme is educational and service to the community. It is a student-centered programme in which projects are implemented by the NSS volunteers in close collaboration with the clientele community and scope for the students' interaction with the people. The various programmes conducted by the NSS such as Pond cleaning, Nilavembu Kudineer distribution, Tree plantation, Blood donations etc.. have brought about a remarkable change in their outlook and their attitude towards life and society. Mar Ephraem Entrepreneurship Development Cell The Mar Ephraem Entrepreneurship Development Cell is dedicated to inspiring a culture of entrepreneurship and innovation across all sectors. Particularly among the young, this has resulted in the establishment and expansion of a huge number of innovative businesses, particularly in the manufacturing sector. Our IEDC provides assistance to start-ups, training, and mentorship to budding and established

5.4 – Alumni Engagement

5.4.1 – Whether the institution has registered Alumni Association?

Yes

Alumni Engagement AMEOS (Association of Mar Ephraem Old Students) is a vibrant organization to promote a sustained sense of belonging to the Alma Mater among the Alumni by being in regular contact with them. It creates mutually beneficial relationship between institute and Alumni. It is a very active and highly successful alumni association playing a major role in the development of the College. The purpose of forming this association is to foster the spirit of strengthening the connect between our alumni, the society and the college. It helps promote the general welfare of the College community and the society as whole. The objective of the Alumni Association of Mar Ephraem College of Engineering, is to reach, engage and serve all alumni, present students by networking with one another to foster a life-long intellectual and emotional connection between the college and its graduates. The association serves the need of alumni for leadership, voluntary commitment, goodwill, financial support, enhancing industry academic collaboration and communications including public relations. The Alumni Association of Mar Ephraem organizes Alumni meet every year to facilitate, consolidate and coordinate Alumni Activities .Alumni Association of Mar Ephraem Secretary is Antony Kurien (Mech), Joint Secretary is Sindhuja S N (ECE), Treasurer is Bravin Ebanesh V (Civil). Mar Ephraem Alumni Association acts as the linking bridge between the past and the present, endeavoring to build a better future. It connects a community of novel, motivated, inquisitive, talented and development- oriented alumni making their mark across different sectors. Alumni Association provides a platform for the alumni to network and interact with the students faculty members and the management, thereby enhancing the educational experience at the institute and promoting in the business world environment. Alumni Association aims at creating and sustaining a mutually beneficial relationship between the institute and its alumni network. The team intends to increase alumni engagement in various academic, placements, cultural and social activities at the institute and beyond to ensure interaction between them and the students. Alumni provide all assistance and cooperation to the institute in its placement initiatives for the growth and development of student career. This would help students to get a first-hand insight into the corporate world and the alumni to network with their batch mates, friends and teachers. The established and esteemed alumni provide placement referrals from time to time. Alumni of the college make the current students up-to-date with various job opportunities and corporate requirements. Invitations to the alumni as trainers, guest lecturers, project evaluators, speakers at orientation of new batch and other similar activities, which enable to strengthen the bond between the past and present for brighter future. The alumni are also invited to connect to national conference arranged by the institute in the form of Chairs and members of organizing committee to give a platform for networking and knowledge sharing to the Alumni and present students. Alumni Association calls upon our honored alumni to come forward and connect to their alma mater.

5.4.2 – No. of enrolled Alumni:

1200

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

10000

5.4.4 – Meetings/activities organized by Alumni Association :

Seminar on role of electrical engineers in software field is conducted on 15-11-2018 by our alumni Mr.Cyril M Sam.

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 institution advocates decentralized approach. Initially, the events are planned in the academic council and the academic calendar is finalized. Once the academic calendar and action plan for the academic calendar is finalized, the heads of the schools are given autonomy to handle the respective schools. The feedback mechanism is keen and it takes the feedback from every individual stake holders. After which, the feedback is analyzed in the academic council and policies are made

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

Partial

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
Teaching and Learning	Before the commencement of the semester, the faculty are advised to prepare the course file wherein, the entire syllabus is glanced and appropriate planning is done for the entire semester. continuous monitoring through MIS is made for continuous monitoring
Curriculum Development	during the course file preparation, the industrial partners are consulted and the industrial gap is identified and the identified industrial gap is added as value added courses in the curriculum.
Examination and Evaluation	The institution is affiliated under Anna University and the examinations are conducted by the university. however, internal assessments are conducted by the institution in which a centralized approach is adopted. two sets of question papers are submitted by the faculty. The exam cell selects one question and the examination is conducted. The answer scripts are evaluated and remedial measures are taken.
Research and Development	The students are encouraged to work on research projects. Seed money for innovative projects would be provided by the institution. Moreover, the institution helps in filing patent for innovative models and assist in publication of the research work in reputed journals.
Library, ICT and Physical	A well furnished library with ICT

Infrastructure / Instrumentation	facility is open even after regular working hours. the library facility can be accessed even by online.
Human Resource Management	the institution has a well defined policy in human resource management. the requirement of human resource comes from the head of the schools and whence it is mandated, an open advertisement is made through local newspapers. The initial screening is done and following which a personal interview is also made. A written is opted when the number of applicants is more.
Industry Interaction / Collaboration	Each faculty finds an industrial partner who suggests for curriculum enrichment and also who supports for value added courses. hence the institution has a good linkage with industries
Admission of Students	The admission is through a open window counseling conducted by the anna university. 50 of the seats are filled through the single window counselling. the rest of the seats are filled through management through a written examination and the admission through DOTE

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

E-governance area	Details
Planning and Development	The requirement comes from the head of the schools and every stake holders. these requirements are analyzed and discussed in the academic planning council and the action plan is developed and implemented through MIS

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	Dr. D. Dhanya	International Conference on Advanced innovations in Engineering and Technology	Nill	1000
2017	Dr. D. Dhanya	IEEE International Conference on computational Intelligence	Nill	1000

		and computing Research		
2017	Dr.V. Suresh	Nill	ISTE	1000
2017	Dr. Reeba Rex	Nill	ISTE	1000
2017	Mrs.Brenda	Nill	ISTE	1000
2017	Mrs.Jeba	Nill	ISTE	1000
2017	Dr.Benschwartz	Nill	IEICE	1000
2017	Dr.Lalin Laudis	Nill	IET	1000
2017	Mr.Aravind	Nill	ISTE	1000
2017	Mrs.Akhila	Nill	ISTE	1000
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6.3.2 – Number of professional development / administrative training programmes organized by the College for teaching and non teaching staff during the year

Year	Title of the professional development programme organised for teaching staff	Title of the administrative training programme organised for non-teaching staff	From date	To Date	Number of participants (Teaching staff)	Number of participants (non-teaching staff)
2018	5 days FDP on big data Analytics	Nill	07/05/2018	11/05/2018	14	Nill
2018	Arduino and Raspberry pi	Nill	07/05/2018	11/05/2018	20	Nill
2018	FDP on Embedded Systems	Nill	12/03/2018	18/03/2018	12	Nill
2018	FDP on soil Mechanics	Nill	19/06/2018	21/06/2018	20	Nill
2017	Outcome based Teaching and Learning	Nill	23/10/2017	27/10/2017	35	Nill
2017	Nill	Outcome based Teaching and Learning	23/10/2017	27/10/2017	Nill	20
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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
Python and its Applications	1	08/11/2017	09/11/2017	Nill
Introduction to Molecular Imaging	1	28/08/2017	28/08/2017	Nill
ICTMI 2017	1	03/05/2017	05/05/2017	Nill
FDP on Programming in Python 3.0	3	28/08/2017	29/08/2017	Nill
Introduction to Molecular Imaging	1	29/08/2017	30/08/2017	Nill
FDP on Programming in Python 3.0	1	28/08/2017	29/08/2017	Nill
Computational Intelligence and Data Engineering ICCIDE-2017	1	03/05/2017	05/05/2017	Nill
FDP on Recent trends in Renewable Energy Resources	1	20/06/2017	22/06/2017	Nill
FDP on Solar Energy Applications in present Era	5	13/11/2017	17/11/2017	Nill
FDP on Lean Manufacturing Techniques	1	11/12/2017	15/12/2017	Nill
No file uploaded.				

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

Teaching		Non-teaching	
Permanent	Full Time	Permanent	Full Time
0	0	0	0

6.3.5 – Welfare schemes for

Teaching	Non-teaching	Students
Staff Welfare association functioning effectively with seed money from management. ? Contribution in Provident	Staff Welfare association functioning effectively with seed money from management. ? Contribution in Provident	The Director of teaching and learning monitors the welfare of the students. ? College provides its own health

<p>Fund Scheme for staff. ? Funds are also facilitated to individual member of the staff in his/her emergency/crisis. ? Family get-together and picnic for teaching and non-teaching staffs and their family ? Group Accident/Health insurance Scheme is being implemented in the College ? Festival Day celebrations are conducted in the college for all the staff members where all are treated with gifts ? Medical leave, casual leave, study leave and maternity leave are provided by the college to the staff members. ? On duty leave for faculty development programs and conference are provided to faculty members.</p>	<p>Fund Scheme for staff. ? Funds are also facilitated to individual member of the staff in his/her emergency/crisis. ? Family get-together and picnic for teaching and non-teaching staffs and their family ? Group Accident/Health insurance Scheme is being implemented in the College ? Festival Day celebrations are conducted in the college for all the staff members where all are treated with gifts ? Medical leave, casual leave, study leave and maternity leave are provided by the college to the staff members. ? On duty leave for faculty development programs and conference are provided to faculty members.</p>	<p>insurance to all the students. ? Financial Assistance from State /Central/Other National agencies is provided to students ? SC/ST Cell in the institute works for the welfare of SC/ST students and to get scholarship from the Government. ? On duty leave is provided to students to participate in various off campus competitions and the Winners are awarded with cash prize from the college. ? Health Centre with basic medical facilities is available in the college and the Health Care Cell plans, implements and monitors health care activities in the college. ? Students, staff members, alumni and management of the institution extend their financial help to students from economically weaker students for their medical treatment.</p>
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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 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 internal audit is carried out to take care of the requirements specified on monthly basis. External audit carried out ensures total compliance with statutory requirements and obligations. The external audit is carried out biannually. The last external audit has been concluded up to 31st March, 2019 and the internal audit has been concluded up to 30th September, 2019.

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

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

6.4.3 – Total corpus fund generated

6363795

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	IQAC and External Professors	Yes	IQAC Marephraem
Administrative	Yes	Governing Council	Yes	Governing Council

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

PTA meetings are conducted at the school level and the suggestions relating to teaching learning process are considered for further improvement. Students' Progress and attendance records are sent through SMS to the parents regularly through MIS. The results and the progress of the students are discussed in the parent teacher meeting. Parents meet the mentors after the meetings. PTA meetings create cooperation between the student, staff and the parents. Parents suggest and provide feedback for the development of the college during parents meeting

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

One orientation program per year is conducted. The non-teaching staffs are given special training whenever new facilities or labs are added to the college with new technology by the industrial people.

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

Renovation and addition of physical infrastructure, modernization of existing laboratories and establishing new laboratories in line with industry's requirements, establishment of centres of excellence (research laboratories) to provide a platform for research for both students and faculty. Motivating and supporting entrepreneurial drive amongst students by incubation Centre. Working towards accreditation by NBA. Faculty are encouraged to innovatively improve the processes including evaluation processes to achieve attainment higher levels of course outcomes

6.5.5 – Internal Quality Assurance System Details

a) Submission of Data for AISHE portal	Yes
b) Participation in NIRF	No
c) ISO certification	No
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
2017	5 days FDP on Big Data Analytics	Nill	07/05/2018	11/05/2018	25
2017	Arduino and Rasberry Pi	Nill	07/05/2018	11/05/2018	15
2017	FDP on	Nill	12/03/2018	16/03/2018	18

	Embedded Systems				
2017	FDP on Soil Mechanics	Nill	19/06/2018	21/06/2018	24
2017	Outcome based Teaching and Learning	Nill	23/10/2017	27/10/2017	110
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
Gender Equality and women empowerment	15/09/2017	15/09/2017	140	Nill
Gender discrimination laws in India	22/01/2018	22/01/2018	120	43

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
<p>Green audit is implemented and, the incandescent bulbs are replaced phase by phase with LED bulbs. Food waste and other canteen waste is utilized in the biogas plants. We have a vermin composting unit too for the disposal of food waste other bio waste which serves us to provide bio fertilizer for the entire trees plants inside the campus. Aiming at the energy conservation and to supplement the power supply in the college a solar power unit is commissioned. The College harvests the rain water by collecting it in the natural pond. Groundwater is recharged using the grey water and rain water collected in the reservoir is sufficient to water many species of trees, plants, shrubs and lawns. Many trees are planted in and around the campus to maintain the ecosystem, reduce heat island effects, and help to maintain carbon neutrality.</p>

7.1.3 – Differently abled (Divyangjan) friendliness

Item facilities	Yes/No	Number of beneficiaries
Physical facilities	Yes	Nill
Ramp/Rails	Nill	1
Provision for lift	Nill	Nill
Rest Rooms	Nill	1
Scribes for examination	Yes	1

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 !!!

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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)
Student Hand Book	24/07/2017	The student Handbook of Mar Ephraem provides access to information about the services, resources, policies and procedures for the students

7.1.6 – Activities conducted for promotion of universal Values and Ethics

Activity	Duration From	Duration To	Number of participants
Seminar on Social Responsibilities	18/02/2018	18/02/2018	43
Seminar on Sustainable development	15/09/2017	15/09/2017	50

No file uploaded.

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

Green audit is implemented and, the incandescent bulbs are replaced phase by phase with LED bulbs. Food waste and other canteen waste is utilized in the biogas plants. We have a vermin composting unit too for the disposal of food waste other bio waste which serves us to provide bio fertilizer for the entire trees plants inside the campus. Aiming at the energy conservation and to supplement the power supply in the college a solar power unit is commissioned. The College harvests the rain water by collecting it in the natural pond. Groundwater is recharged using the grey water and rain water collected in the reservoir is sufficient to water many species of trees, plants, shrubs and lawns. Many trees are planted in and around the campus to maintain the ecosystem, reduce heat island effects, and help to maintain carbon neutrality.

7.2 – Best Practices

7.2.1 – Describe at least two institutional best practices

Best Practice 1
1. Title of the Practice: Mar Ephraem Manna
2. Objective of the Practice : To imbibe the spirit of helping among students. Intended outcome: Create morally responsible citizens for the welfare of the society
3. The Context These days rampant corruption is deep rooted in the whole system because of the selfish attitude of people. To encounter this to create a community which extends it's helping hands to the fellow beings who are in need, this practice is started. This is a student initiative programme with Aji Tom of final year Civil Engineering as president and Sibin Mariam Stanley final year CSE As secretary and Prince Chacko final year EEE as treasurer. Though it is a student initiative programme it is monitored effectively by the Principal

is coordinated by the staff in charge. This is a small but effective practice to imbibe thoughts in young minds what the student community can do for the upliftment of the fellow students who are facing financial difficulty to meet their needs of getting an education. Besides giving financial assistance this programme encourages those students to come up in life by providing other physical aids too.

4. The Practice At the juncture when faculty members are approached by needy students for some kind of help such as for books, fee etc. , we decided to implement this practice . This was addressed to the students and with a positive feedback initiation from the students this practice had been started. Financial contribution by the students are collected and deposited in the bank in the joint account of the Principal the President and the secretary of the committee .This fund is dispersed after reviewing the needs of those students who are in need such as the treatment of students with serious ailments, fees remittance, need of books etc. The very active conscious participation of the students from all the Schools made this practice a successful one.

5. Evidence of Success It is seen over last few years that the practice as above has provided satisfaction to all stake holders of all the Schools. As a result the number of activities through this charity program is increased along with the increase of fund.

6. Problems Encountered and Resources Since this is a voluntary practice, issues of any problem has not been traced out so far

Best Practice 2

1. Title of the Practice : Tutorial Learning

2. Objective of the Practice: Make students to perform better in the academics through timely tutorials. Intended outcome: Peer Learning Effective team work

3. The Context To compete with an ever changing globalized world our students need an education that meets their individual needs and opportunities that connect them to what is happening around the globe. Therefore, it is the whole responsibility of the college to set an appropriate learning environment which is more exciting, challenging as well as rewarding. New generation students inhabit a borderless world offering boundless link, data and mobility. They need education delivered in ways that are compatible and support their world view. In view of these special circumstances, our college charts this practice of tutorial learning. In a busy academic schedule, to avoid the mental stress of the students and to keep them focused on the achievement of better marks during their internal as well as external examinations.

4. The Practice: Students who are categorized as slow learners and average learners are to be exposed to fine use of technology in the conventional classroom, to thrive in this competitive world. Aiming this, after taking the class on a particular topic the student of the whole class will be given a set of questions and answers in advance to seek the solution without any compulsion. After evaluating the solution, the students of the whole class is divided into various groups each consisting of 4- 5 members. Each group consists of students from slow learners' category, average category above average category. The student who is identified as good in the topic of each group is asked to teach the other members of the group. Here the teacher becomes a facilitator the student becomes the master, and thus the methodology of peer learning is instituted successfully, for improving the problem solving, analytical presentation skills of the students.

5. Evidence of Success It is seen over the last few years that the practice as above has provided satisfaction to all stake holders of all the Schools. - This has helped the department to improve on academic results, and to provide trainings to students on need based issues.

6. Problems Encountered and Resources This system has been practiced for the last two Years. No serious problems have been observed so far.

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

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

The institution is keen on its vision and mission. we strongly believe that skillful research could transform the society into a self sustained one. The institution encourages research projects very specifically to address societal problems at its need. With research opportunities in the campus, the students, faculty benefit. the institution provides seed money and grants for the students who are involved in projects that address societal needs. Notwithstanding, the institution also provides provision to evolve any ideas in to an entrepreneurship process. the students with successful prototyped projects are guided and assisted to be an entrepreneur in due course. With all these activities we believe that we shall transform the society with technological intervention.

Provide the weblink of the institution

<http://www.marephraem.edu.in/>

8.Future Plans of Actions for Next Academic Year

Apply NBA accreditation for eligible UG programs. Implementing online feedback system for all state holders.Improving hostel facilities in the campus.Strategy frame work to improve admission and quality of intake . To inculcate entrepreneurial skills and startups. Motivate faculty members to attend at least one online course conducted by online course providers like Swayam, Coursera, Moodle etc and produce certificate. At least one value added course to be prepared and conducted by each department. Career guidance and placement cell to arrange coaching for the improved performance of students in competitive examinations Strengthening institute-industry linkages.