



## Yearly Status Report - 2018-2019

### 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,<br>Marthandam,       |
| City/Town                                     | Elavuvilai  |
| State/UT                                      | Tamil Nadu  |
| Pincode                                       | 629171  |

| <b>2. Institutional Status</b>   |                 |                                       |   |             |             |   |       |      |   |                 |                                       |                           |             |    |    |      |      |             |             |
|--|-----------------|---------------------------------------|---|-------------|-------------|---|-------|------|---|-----------------|---------------------------------------|---------------------------|-------------|----|----|------|------|-------------|-------------|
| Affiliated / Constituent   |                 |                                       | Affiliated  |             |             |   |       |      |   |                 |                                       |                           |             |    |    |      |      |             |             |
| Type of Institution  |                 |                                       | Co-education  |             |             |   |       |      |   |                 |                                       |                           |             |    |    |      |      |             |             |
| Location   |                 |                                       | Rural   |             |             |   |       |      |   |                 |                                       |                           |             |    |    |      |      |             |             |
| Financial Status   |                 |                                       | private   |             |             |   |       |      |   |                 |                                       |                           |             |    |    |      |      |             |             |
| Name of the IQAC co-ordinator/Director   |                 |                                       | Dr. Rajeev  |             |             |   |       |      |   |                 |                                       |                           |             |    |    |      |      |             |             |
| Phone no/Alternate Phone no.   |                 |                                       | 04651272158   |             |             |   |       |      |   |                 |                                       |                           |             |    |    |      |      |             |             |
| Mobile no.   |                 |                                       | 9444895594  |             |             |   |       |      |   |                 |                                       |                           |             |    |    |      |      |             |             |
| Registered Email   |                 |                                       | iqac@marephraem.edu.in  |             |             |   |       |      |   |                 |                                       |                           |             |    |    |      |      |             |             |
| Alternate Email  |                 |                                       | marephraem@gmail.com  |             |             |   |       |      |   |                 |                                       |                           |             |    |    |      |      |             |             |
| <b>3. Website Address</b>  |                 |                                       |   |             |             |   |       |      |   |                 |                                       |                           |             |    |    |      |      |             |             |
| Web-link of the AQAR: (Previous Academic Year)   |                 |                                       | <a href="http://www.marephraem.edu.in/pages/iqac/aqar2017-2018.pdf">http://www.marephraem.edu.in/pages/iqac/aqar2017-2018.pdf</a>                           |             |             |   |       |      |   |                 |                                       |                           |             |    |    |      |      |             |             |
| <b>4. Whether Academic Calendar prepared during the year</b>   |                 |                                       | Yes   |             |             |   |       |      |   |                 |                                       |                           |             |    |    |      |      |             |             |
| if yes, whether it is uploaded in the institutional website:<br>Weblink :  |                 |                                       | <a href="http://www.marephraem.edu.in/pages/iqac/downloads/18-19_compressed.pdf">http://www.marephraem.edu.in/pages/iqac/downloads/18-19_compressed.pdf</a> |             |             |   |       |      |   |                 |                                       |                           |             |    |    |      |      |             |             |
| <b>5. Accreditation Details</b>  |                 |                                       |   |             |             |   |       |      |   |                 |                                       |                           |             |    |    |      |      |             |             |
| <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>2.60</td> <td>2017</td> <td>12-Dec-2017</td> <td>11-Sep-2022</td> </tr> </table>         |                 |                                       |   |             |             | Cycle   | Grade | CGPA | Year of Accreditation                         | Validity        |                                       | Period From               | Period To   | 1  | B+ | 2.60 | 2017 | 12-Dec-2017 | 11-Sep-2022 |
| Cycle  | Grade           | CGPA                                  | Year of Accreditation   | Validity    |             |   |       |      |   |                 |                                       |                           |             |    |    |      |      |             |             |
|  |                 |                                       |   | Period From | Period To   |   |       |      |   |                 |                                       |                           |             |    |    |      |      |             |             |
| 1  | B+              | 2.60                                  | 2017  | 12-Dec-2017 | 11-Sep-2022 |   |       |      |   |                 |                                       |                           |             |    |    |      |      |             |             |
| <b>6. Date of Establishment of IQAC</b>  |                 |                                       | 03-Oct-2016   |             |             |   |       |      |   |                 |                                       |                           |             |    |    |      |      |             |             |
| <b>7. Internal Quality Assurance System</b>  |                 |                                       |   |             |             |   |       |      |   |                 |                                       |                           |             |    |    |      |      |             |             |
| <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 &amp; Duration</th> <th>Number of participants/ beneficiaries</th> </tr> <tr> <td>NBA ORIENTATION PROGRAMME</td> <td>18-May-2019</td> <td>20</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 | NBA ORIENTATION PROGRAMME | 18-May-2019 | 20 |    |      |      |             |             |
| 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 |   |             |             |   |       |      |   |                 |                                       |                           |             |    |    |      |      |             |             |
| NBA ORIENTATION PROGRAMME  | 18-May-2019     | 20                                    |   |             |             |   |       |      |   |                 |                                       |                           |             |    |    |      |      |             |             |

[View Uploaded 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 |
|--------------------------------|--------|----------------|-----------------------------|--------|
| NIL                            | NIL    | NIL            | 2019<br>0                   | 0      |
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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 :**

3

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 Examinations and attendance through centralized Management Information System (MIS) 4.Comprehensive Feedback analysis through MIS 5. Quality improvement in course file through MIS

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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  |
|------------------------|---|
| Faculty Appraisal      | Help to measure and improve the performance of faculty members          |
| Comprehensive Feedback | Feedback from students on all aspect of the college. Results in quality |

|   |  |
|---|--|
|   | improvement.   |
| Attendance and Assessment Record Monitoring | The attendance and assessment monitoring with detailed analysis is done through centralized MIS and transparency is prevailed. |
| Course File                                 | Quality of course plan and delivery has Improved through MIS   |
| Accreditation by NBA                        | Adequate steps are taken to apply for Civil, Mechanical, CSE   |
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|   |     |
|---|-----|
| 14. Whether AQAR was placed before statutory body ? | Yes |
|---|-----|

|                        |              |
|------------------------|--------------|
| Name of Statutory Body | Meeting Date |
| Management             | 05-Jun-2019  |

|   |    |
|---|----|
| 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 | 07-Feb-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) | 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 |
|--------|

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|---|
| <b>CRITERION I – CURRICULAR ASPECTS</b> |
|---|

## 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/entrepreneurship | Skill Development            |
|---|-----------------|-----------------------|----------|--|------------------------------|
| Certificate course on Software Testing Tools    | Nil             | 11/07/2018            | 6        | Employability                            | Software Testing             |
| Revit architecture                              | Nil             | 16/07/2018            | 6        | Employability                            | Revit architecture           |
| Certificate course on web development using PHP | Nil             | 26/07/2018            | 6        | Entrepreneurship                         | Web development              |
| Primevera                                       | Nil             | 02/08/2018            | 6        | Employability                            | Primevera                    |
| Revit Mep Training Programme                    | Nil             | 08/08/2018            | 6        | Entrepreneurship                         | Revit Mep Training Programme |
| Reasoning Skills and Aptitude                   | Nil             | 23/08/2018            | 6        | Entrepreneurship                         | Aptitude                     |
| IOT for Beginners                               | Nil             | 18/10/2018            | 6        | Employability                            | IOT                          |
| Design for Robots using Arduino                 | Nil             | 14/11/2018            | 6        | Employability                            | Design for Robots            |

## 1.2 – Academic Flexibility

### 1.2.1 – New programmes/courses introduced during the academic year

| Programme/Course  | Programme Specialization                  | Dates of Introduction |
|-------------------|---|-----------------------|
| BE                | Value added course on Java Programming    | 04/12/2018            |
| BE                | Modeling using High End Software -CATIA   | 10/01/2019            |
| BE                | Value added course on mobile applications | 13/02/2019            |
| BE                | Analysis using high end software ANSYS    | 06/03/2019            |
| BE                | Auto CAD and E-CAD training               | 28/03/2019            |
| BE                | Industrial Automation                     | 02/04/2019            |
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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                               | ECE                      | 17/07/2019  |
| BE                               | CIVIL                    | 17/07/2019  |
| BE                               | MECHANICAL               | 17/07/2019  |
| BE                               | EEE                      | 17/07/2019  |
| BE                               | CSE                      | 17/07/2019  |
| ME                               | APPLIED ELECTRONICS      | 17/07/2019  |
| ME                               | MANUFACTURING            | 17/07/2019  |
| ME                               | CSE                      | 17/07/2019  |

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

|                    | Certificate | Diploma Course |
|--------------------|-------------|----------------|
| Number of Students | 1009        | 0              |

## 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    | 17/10/2018           | 45                          |
| Modeling using High End Software -CATIA   | 13/11/2018           | 128                         |
| Value added course on mobile applications | 02/01/2019           | 44                          |
| Analysis using high end software ANSYS    | 16/01/2019           | 124                         |
| Auto CAD and E-CAD training               | 13/02/2019           | 28                          |
| Industrial Automation                     | 05/03/2019           | 28                          |

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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                    | 83  |
| BE                      | CSE                      | 37  |
| BE                      | ECE                      | 38  |
| BE                      | EEE                      | 71  |
| BE                      | MECHANICAL               | 265   |
| BE                      | SCIENCE AND HUMANITIES   | 100   |
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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 |
|-----------------------|--------------------------|---------------------------|--------------------------------|-------------------|
| BE                    | CIVIL                    | 120                       | 62                             | 62                |
| BE                    | MECHANICAL               | 120                       | 95                             | 95                |
| BE                    | ECE                      | 120                       | 33                             | 33                |

|                   |                     |    |    |    |
|-------------------|---------------------|----|----|----|
| BE                | EEE                 | 60 | 27 | 27 |
| BE                | CSE                 | 60 | 58 | 58 |
| ME                | APPLIED ELECTRONICS | 18 | 18 | 18 |
| ME                | CSE                 | 18 | 12 | 10 |
| ME                | MANUFACTURING       | 18 | 15 | 15 |
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## 2.2 – Catering to Student Diversity

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

| Year | Number of students enrolled in the institution (UG) | Number of students enrolled in the institution (PG) | Number of fulltime teachers available in the institution teaching only UG courses | Number of fulltime teachers available in the institution teaching only PG courses | Number of teachers teaching both UG and PG courses |
|------|---|---|---|---|--|
| 2018 | 271   | 43  | 94  | 18  | 18   |

## 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 |
|----------------------------|---|-----------------------------------|----------------------------------|----------------------------|---------------------------------|
| 112                        | 112   | 34                                | 30                               | 30                         | 40                              |
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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 |
|--|-----------------------------|-----------------------|
| 1306   | 112                         | 1:12                  |

## 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 |
|-----------------------------|-------------------------|------------------|--|--------------------------|
| 112                         | 112                     | 0                | 3  | 2                        |

### 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 |
|-------------------|---|---------------------|--|
| 2019              | Mr.Gigin Durai  | Assistant Professor | SAE SUPRA  |
| 2019              | Mr. FRANKLIN  | Associate Professor | SAE SUPRA  |
| 2019              | Mr. S.N.KUMAR   | Assistant Professor | BEST RESEARCHER  |
| 2019              | Ms. A. SEEMA  | Assistant Professor | RECOGNIZATION AWARD  |
| 2019              | Ms. S.K.JOHSY SUGITHA   | Assistant Professor | RECOGNIZATION AWARD  |
| 2018              | Dr. LENIN FRED A  | Professor           | Mentor of Change by Niti Ayog  |
| 2018              | Dr.LENIN FRED A.  | Professor           | India International Science Festival, Govt. of India                         |
| 2019              | Dr. A. LENIN FRED A.  | Professor           | National Jury, India International Science Festival, Govt. of India          |
| Nill              | Mr. LALIN L LAUDIS  | Assistant Professor | BEST FACULTY AWARD   |
| Nill              | Dr. R. BENSCHWARTZ  | Assistant Professor | BEST RESEARCHER AWARD  |
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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 |
|-------------------|----------------|----------------|--|---|
| ME                | 410            | 2019           | 06/05/2019   | 06/08/2019  |
| ME                | 401            | 2019           | 06/05/2019   | 06/08/2019  |
| BE                | 104            | 2019           | 12/04/2019   | 15/07/2019  |
| BE                | 105            | 2019           | 12/04/2019   | 15/07/2019  |
| BE                | 103            | 2019           | 12/04/2019   | 15/07/2019  |
| BE                | 106            | 2019           | 12/04/2019   | 15/07/2019  |
| BE                | 114            | 2019           | 12/04/2019   | 15/07/2019  |
| ME                | 405            | 2019           | 06/05/2019   | 06/08/2019  |
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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/electronics-communication-engineering/ece-peo-po.php?id=48>

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                         | 124   | 65  | Nil             |
| 104            | BE             | Computer Science Engineering              | 43  | 23  | Nil             |
| 105            | BE             | Electrical and Electronics Engineering    | 31  | 12  | Nil             |
| 106            | BE             | Electronics and communication Engineering | 31  | 20  | Nil             |
| 114            | BE             | Mechanical                                | 137   | 64  | Nil             |

|                   |    |                                  |    |    |     |
|-------------------|----|----------------------------------|----|----|-----|
|                   |    | Engineering                      |    |    |     |
| 401               | ME | Applied Electronics              | 16 | 15 | Nil |
| 405               | ME | Computer science and Engineering | 5  | 5  | Nil |
| 410               | ME | Manufacturing Engineering        | 13 | 13 | Nil |
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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/pages/igac/STUDENT%20SATISFACTION%20SURVEY.pdf>

## 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        | 365      | DST                        | 2.5                    | 2.5                             |
| Major Projects        | 365      | DST                        | 2.5                    | 2.5                             |
| Major Projects        | 365      | DST                        | 2.5                    | 2.5                             |
| Major Projects        | 365      | DST                        | 2.5                    | 2.5                             |
| Major Projects        | 365      | DST                        | 2.5                    | 2.5                             |
| Major Projects        | 365      | DST                        | 2.5                    | 2.5                             |
| Major Projects        | 365      | DST                        | 2.5                    | 2.5                             |
| Major Projects        | 365      | DST                        | 2.5                    | 2.5                             |
| Major Projects        | 365      | DST                        | 2.5                    | 2.5                             |
| Major Projects        | 365      | DST                        | 2.5                    | 2.5                             |
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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 building with dynamic load   | Civil Engineering                | 07/01/2019 |
| Seminar on sustainable development  | Civil Engineering                | 31/07/2018 |
| Seminar on Waste pyrolysis to fuel oil and Waste plastic refining to Oil technology | Civil Engineering                | 01/10/2019 |
| Seminars on research based material selection for construction                      | Civil Engineering                | 09/03/2019 |
| Seminar on improvement of ground water storage for different geographic condition   | Civil Engineering                | 11/10/2018 |
| Workshop on concrete mix design for different codal provisions                      | Civil Engineering                | 02/02/2019 |
| Workshop on MSP in construction industry  | Civil Engineering                | 03/08/2019 |
| Workshop on analysuis of structures using STAAD PRO                                 | Civil Engineering                | 27/08/2019 |
| Hands on Training in JavaScript   | Computer Science and Engineering | 20/07/2018 |

### 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           |
|--------------------------|-------------------------|---|---------------|--------------------|
| Best Project Award       | Jobin P John            | Rohini College of Engineering and Technology      | 06/08/2018    | Research           |
| Best Project Award       | Melvin Abraham Mathew P | Rohini College of Engineering and Technology      | 06/08/2018    | Research           |
| Best Project Award       | Sam P Jose              | Rohini College of Engineering and Technology      | 06/08/2018    | Research           |
| Best NewGen IEDC Project | Abinesh Elas            | Mar Ephraem College of Engineering and Technology | 19/03/2019    | Innovative Project |
| Best Research Award      | Arpitha Ranjan          | Mar Ephraem College of Engineering and Technology | 08/02/2019    | Research           |
| Best Achiever Award      | Delsy Mary              | Mar Ephraem College of Engineering and            | 08/02/2019    | Service            |

|                   |              |   |            |          |
|-------------------|--------------|---|------------|----------|
|                   |              | Technology  |            |          |
| Excellent Award   | Abidan J Lal | Mar Ephraem College of Engineering and Technology | 08/02/2019 | Academic |
| No file uploaded. |              |   |            |          |

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                | Nill                 |
| No file uploaded. |      |              |                      |                    |                      |

### 3.3 – Research Publications and Awards

3.3.1 – Incentive to the teachers who receive recognition/awards

| State | National | International |
|-------|----------|---------------|
| 12    | 2        | 1             |

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

| Name of the Department | Number of PhD's Awarded |
|------------------------|-------------------------|
| CSE                    | 2                       |

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) |
|-------------------|------------|-----------------------|--------------------------------|
| National          | CSE        | 11                    | 0                              |
| International     | ECE        | 10                    | 2                              |
| International     | EEE        | 9                     | 0                              |
| International     | MECH       | 7                     | 0                              |
| International     | CHEMISTRY  | 1                     | 0                              |
| No file uploaded. |            |                       |                                |

3.3.4 – Books and Chapters in edited Volumes / Books published, and papers in National/International Conference Proceedings per Teacher during the year

| Department        | Number of Publication |
|-------------------|-----------------------|
| CSE               | 4                     |
| ECE               | 2                     |
| 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 |
|---------------------------------|-----------------------|---------------------------------|---------------------|----------------|---|---|
| Expanded Fly Ash Clay Aggregate | Bright Brabin Winsley | Journal of Materials and Engine | 2018                | Nill           | Mar Ephraem College of Engineerin                         | Nill  |

|   |  |                  |  |  |                  |  |
|---|--|------------------|--|--|------------------|--|
| a Sustainable Alternative Coarse Aggregate for Concrete |  | ering Structures |  |  | g and Technology |  |
|---|--|------------------|--|--|------------------|--|

[View Uploaded 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 |
|--|----------------------------|--|---------------------|---------|---|---|
| Medical Image Denoising Using Cuckoo Search Optimization Technique and Artificial Neural Network | B. Baron Sam, Lenin Fred A | Journal of Adv Research in Dynamical Control Systems | 2018                | 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 | 6             | 18       | 1     | 0     |
| Presented papers            | 10            | 15       | 0     | 0     |
| Resource persons            | 2             | 0        | 1     | 3     |

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 |
|--------------------------------|--|--|--|
| BLOOD DONATION                 | YRC  | 1  | 15   |
| Celebration of world heart day | NSS  | 2  | 225  |

No file uploaded.

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 |
| Campus Cleaning   | Clean Campus Award | Kumari Maha Sabha | 125       |
| No file uploaded. |                    |                   |           |

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

| Name of the scheme                                    | Organising unit/Agency/collaborating agency | Name of the activity                                  | Number of teachers participated in such activities | Number of students participated in such activities |
|---|---|---|--|--|
| Aids Awareness Program                                | YRC Mar Ephraem                             | Aids Awareness Program                                | 3  | 75   |
| Blood Donation Camp                                   | YRC Mar Ephraem                             | Blood Donation Camp                                   | 3  | 35   |
| awareness program on organic farming and green campus | NSS Mar Ephraem                             | awareness program on organic farming and green campus | 4  | 70   |
| charity work to flood affected people in Kerala       | NSS Mar Ephraem                             | charity work to flood affected people in Kerala       | 4  | 30   |
| Nilavembu Kudineer Issuing                            | NSS Mar Ephraem                             | Nilavembu Kudineer Issuing                            | 4  | 30   |
| No file uploaded.                                     |   |   |  |  |

### 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 |
|--------------------|-------------------|-----------------------------|----------|
| Research           | Student & Faculty | Self                        | 6        |
| No file uploaded.  |                   |                             |          |

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 |
|-------------------|----------------------|---|---------------|-------------|-------------|
| INDUSTRY          | VALUE ADDED COURSE   | CONCEPT SOLUTIONS   | 28/12/2018    | 19/12/2019  | 45          |
| INDUSTRY          | MOU                  | INTERCAD, TRIVANDRUM  | 01/02/2019    | 30/12/2019  | 112         |
| INDUSTRY          | TRAINING             | EmCog Solutions   | 14/08/2018    | 13/08/2019  | 30          |
| INDUSTRY          | VALUE                | SMEC  | 19/09/2018    | 18/09/2019  | 28          |

|                           |                          |                             |            |            |     |
|---------------------------|--------------------------|-----------------------------|------------|------------|-----|
|                           | ADDED COURSE             | Automation Pvt. Ltd         |            |            |     |
| INDUSTRY                  | INTERNSHIP               | Vesasoft Solutions Pvt. Ltd | 12/03/2019 | 11/09/2019 | 15  |
| INDUSTRY                  | TRAINING                 | CADD CENTRE                 | 02/07/2018 | 01/07/2019 | 125 |
| INDUSTRY                  | TRAINING                 | Ultra Tech Pvt. Ltd.        | 01/08/2018 | 31/07/2019 | 125 |
| INDUSTRY                  | TRAINING AND PLACEMENT   | Elshadai Construction       | 18/07/2018 | 17/07/2019 | 28  |
| INDUSTRY                  | INTERNSHIP AND PLACEMENT | Ideal Construction          | 03/10/2019 | 02/10/2020 | 19  |
| INDUSTRY                  | INTERNSHIP AND PLACEMENT | Safa construction           | 03/08/2018 | 03/08/2019 | 27  |
| <a href="#">View File</a> |                          |                             |            |            |     |

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 |
|-----------------------------|--------------------|--|---|
| EmCog Solutions             | 14/08/2018         | Provide Skill Development training for product development | 28  |
| SMEC Automation Pvt. Ltd    | 19/09/2018         | Conduction of short term value added courses               | 28  |
| Vesasoft Solutions Pvt. Ltd | 13/03/2019         | Internship   | 6   |
| CAAD Centre                 | 03/08/2018         | Training   | 230   |
| Ultra Tech Pvt. Ltd         | 01/10/2019         | Training   | 181   |
| Elshadai Construction       | 08/05/2019         | Training and Placement                                     | 67  |
| Ideal Construction          | 12/10/2018         | Internship and Placement                                   | 243   |
| Safa Construction           | 12/11/2018         | Internship and Placement                                   | 52  |
| Adowa Construction          | 24/07/2019         | Internship and Placement                                   | 125   |
| Environ Construction        | 03/08/2019         | Internship and placement                                   | 172   |
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#### 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 |
|--|--|
| 7.89   | 7.92   |

##### 4.1.2 – Details of augmentation in infrastructure facilities during the year

| Facilities        | Existing or Newly Added |
|-------------------|-------------------------|
| Laboratories      | Newly Added             |
| Campus Area       | Newly Added             |
| 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 |
|--------------------------------|--|---------|--------------------|
| Info Library Management System | Fully                                    | web13.0 | 2014               |

##### 4.2.2 – Library Services

| Library Service Type | Existing |         | Newly Added |        | Total |         |
|----------------------|----------|---------|-------------|--------|-------|---------|
| Text Books           | 11400    | 4020234 | 460         | 179362 | 11860 | 4199596 |
| Reference Books      | 1326     | 536184  | 3           | 2429   | 1329  | 538613  |
| Journals             | 87       | 198538  | 0           | 0      | 87    | 198538  |
| e-Journals           | 105      | 83000   | 400         | 13570  | 505   | 96570   |
| Digital Database     | 326      | 15500   | 10          | 0      | 336   | 15500   |
| CD & Video           | 551      | 0       | 0           | 0      | 551   | 0       |
| Others(s pecify)     | 0        | 0       | 0           | 0      | 0     | 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) | <a href="https://marephcse notes.blogspot.com/faculty-innovation">https://marephcse notes.blogspot.com/faculty-innovation</a> | 07/08/2018                  |
| Ms. D. S Renu       | Design Analysis of Algorithms (Knapsack Problem)     | <a href="https://marephcse notes.blogspot.com/faculty-innovation">https://marephcse notes.blogspot.com/faculty-innovation</a> | 03/01/2019                  |

|                         |   |   |            |
|-------------------------|---|---|------------|
| Ms. P. Innasi<br>Lineta | Multi-Core<br>Architecture and<br>Programming (n-body<br>solvers.)                              | <a href="https://marephcse&lt;br/&gt;notes.blogspot.com/&lt;br/&gt;faculty-innovation">https://marephcse<br/>notes.blogspot.com/<br/>faculty-innovation</a> | 07/01/2019 |
| Ms. L. T. Herlin        | Computer Networks<br>(Packet Switching)   | <a href="https://marephcse&lt;br/&gt;notes.blogspot.com/&lt;br/&gt;faculty-innovation">https://marephcse<br/>notes.blogspot.com/<br/>faculty-innovation</a> | 10/08/2018 |
| Dr. Jerusalin<br>Carol  | Communication<br>Engineering<br>(Modulation and<br>transmission of<br>communication<br>systems) | <a href="https://marephcse&lt;br/&gt;notes.blogspot.com/&lt;br/&gt;faculty-innovation">https://marephcse<br/>notes.blogspot.com/<br/>faculty-innovation</a> | 10/08/2018 |
| Dr. D. Dhanya           | Cloud Computing<br>(Map Reduce)   | <a href="https://marephcse&lt;br/&gt;notes.blogspot.com/&lt;br/&gt;faculty-innovation">https://marephcse<br/>notes.blogspot.com/<br/>faculty-innovation</a> | 30/07/2018 |
| Ms.Janila               | Compiler Design<br>(Phases of<br>Compiler)  | <a href="https://marephcse&lt;br/&gt;notes.blogspot.com/&lt;br/&gt;faculty-innovation">https://marephcse<br/>notes.blogspot.com/<br/>faculty-innovation</a> | 05/04/2018 |
| Ms.Ashy V Daniel        | Fundamentals of<br>Data Structures In<br>C (Stack,Queue)  | <a href="https://marephcse&lt;br/&gt;notes.blogspot.com/&lt;br/&gt;faculty-innovation">https://marephcse<br/>notes.blogspot.com/<br/>faculty-innovation</a> | 30/08/2018 |
| Mr.Babu                 | Internet<br>Programming<br>(Internet<br>Protocols)  | <a href="https://marephcse&lt;br/&gt;notes.blogspot.com/&lt;br/&gt;faculty-innovation">https://marephcse<br/>notes.blogspot.com/<br/>faculty-innovation</a> | 17/10/2018 |
| Mr.Ashwin<br>Singerji   | Software Project<br>Management  | <a href="https://marephcse&lt;br/&gt;notes.blogspot.com/&lt;br/&gt;faculty-innovation">https://marephcse<br/>notes.blogspot.com/<br/>faculty-innovation</a> | 28/03/2019 |
| No file uploaded.       |   |   |            |

#### 4.3 – IT Infrastructure

##### 4.3.1 – Technology Upgradation (overall)

| Type         | Total Co<br>mputers | Computer<br>Lab | Internet | Browsing<br>centers | Computer<br>Centers | Office | Departme<br>nts | Available<br>Bandwid<br>th (MBPS/<br>GBPS) | Others |
|--------------|---------------------|-----------------|----------|---------------------|---------------------|--------|-----------------|--|--------|
| Existin<br>g | 397                 | 198             | 50       | 50                  | 74                  | 12     | 13              | 70   | 0      |
| Added        | 0                   | 0               | 0        | 0                   | 0                   | 0      | 0               | 0  | 0      |
| Total        | 397                 | 198             | 50       | 50                  | 74                  | 12     | 13              | 70   | 0      |

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

|               |
|---------------|
| 70 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<br>recording facility |
|--|---|
| Video Recording Room                       | Nil   |

#### 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 |
|--|--|--|--|
| 1.7                                    | 2.1  | 217.03                                 | 0.9  |

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 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 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/schools/computer-engineering/computer-about-us.php?id=16>

## 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 | 187                | 228626           |
| Financial Support from Other Sources |                           |                    |                  |
| a) National                          | First graduate            | 120                | 6610000          |
| b) International                     | NIL                       | 0                  | 0                |
| 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                     |
|---|-----------------------|-----------------------------|---------------------------------------|
| Certificate Course in Office Automation   | 30/08/2019            | 78                          | Marephraem College of engineering and |

|   |            |     |  |
|---|------------|-----|--|
|   |            |     | Technology                                       |
| Leadership Quality  | 29/09/2019 | 31  | Marephraem College of engineering and Technology |
| Wake up Rise and Shine                                    | 05/02/2019 | 38  | Marephraem College of engineering and Technology |
| Advanced reading and writing                              | 02/01/2019 | 106 | Marephraem College of engineering and Technology |
| Group Discussion  | 26/02/2019 | 123 | Marephraem College of engineering and Technology |
| Interview skills  | 29/01/2019 | 123 | Marephraem College of engineering and Technology |
| Presentation skills                                       | 05/02/2019 | 123 | Marephraem College of engineering and Technology |
| Soft Skill and Personality Development Training programme | 06/07/2019 | 45  | Youkthi Training center                          |
| 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 |
|------|--|--|--|--|---------------------------|
| 2018 | career guidance program  | 34   | 105  | 0  | 0                         |
| 2019 | Placement Training Program   | 0  | 135  | 0  | 0                         |
| 2018 | CAREER DEVELOPMENT PROGRAM ON " AWARENESS ON INDUSTRIAL REQUIREMENTS | 0  | 109  | 0  | 0                         |
| 2018 | AWARENESS ON GATE  | 0  | 44   | 0  | 0                         |

**EXAMINATION**

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

| Total grievances received | Number of grievances redressed | Avg. number of days for grievance redressal |
|---------------------------|--------------------------------|---|
| 5                         | 4                              | 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 |
| Renault<br>Nissan             | 10                              | 2                         | ENVIRON<br>CONSTRUCTION       | 5                               | 1                         |
| <a href="#">View File</a>     |                                 |                           |                               |                                 |                           |

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 | 3  | Mar Ephraem College of Engineering and Technology | BE-CIVIL                  | Anna University Chennai                     | M.E-Structural Engineering    |
| 2018 | 1  | Mar Ephraem College of Engineering and Technology | BE-CIVIL                  | Matrix University, Canada                   | P.G Diploma                   |
| 2018 | 1  | Mar Ephraem College of Engineering and Technology | BE-CIVIL                  | VIT, Vellore                                | M.E-Structural Engineering    |
| 2018 | 2  | Mar Ephraem College of Engineering and Technology | BE-ECE                    | Sun college of Engineering and Technology   | MBA                           |
| 2018 | 1  | Mar Ephraem College of Engineering and Technology | BE-ECE                    | Mar Athanasios College for advanced Studies | MBA                           |

|                           |   |   |        |                            |                             |
|---------------------------|---|---|--------|----------------------------|-----------------------------|
|                           |   | Technology  |        |                            |                             |
| 2018                      | 1 | Mar Ephraem College of Engineering and Technology | BE-ECE | TKM college of engineering | Mtech-Communication Systems |
| 2018                      | 1 | Mar Ephraem College of Engineering and Technology | BE-ECE | Lampton College            | ME-Wireless Networking      |
| <a href="#">View File</a> |   |   |        |                            |                             |

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                                       |
| CAT               | 2                                       |
| No file uploaded. |   |

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

| Activity            | Level         | Number of Participants |
|---------------------|---------------|------------------------|
| Cultural Activities | INSTITUTIONAL | 342                    |
| SPORTS              | INSTITUTIONAL | 400                    |
| No file uploaded.   |               |                        |

### 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 |
|------|-------------------------|------------------------|-----------------------------|-------------------------------|-------------------|---------------------|
| 2019 | DEBATE-MALAYALAM        | National               | Nill                        | 1                             | 961415106012      | BINU PAUL JOSE      |
| 2019 | DEBATE-ENGLISH          | National               | Nill                        | 1                             | 961415106012      | BLESSY BEN B        |
| 2019 | MEHANDHI DESIGNING      | National               | Nill                        | 1                             | 961415106013      | BODLIN LAKHA B S    |
| 2019 | CLAY MODELLING          | National               | Nill                        | 1                             | 961415106014      | JEFRIN E            |
| 2019 | BEST SHOT               | National               | Nill                        | 1                             | 961415106015      | JENISHA K L         |
| 2019 | JAM SKETCH              | National               | Nill                        | 1                             | 961415106016      | JEWEL J MATHEW      |
| 2019 | 400m Relay              | National               | 1                           | Nill                          | 961415106026      | SHEEBA S L          |
| 2019 | DEBATE-                 | National               | Nill                        | 1                             | 96141510          | SRUTHI              |

|                   |               |          |   |      |                  |                  |
|-------------------|---------------|----------|---|------|------------------|------------------|
|                   | ENGLISH       |          |   |      | 6027             | SUNIL<br>MATHEWS |
| 2019              | 100m<br>Relay | National | 1 | Nill | 96141510<br>6028 | SUDHAN S         |
| 2019              | 400m<br>Relay | National | 1 | Nill | 96141510<br>6029 | VIJITHRA<br>P    |
| No file uploaded. |               |          |   |      |                  |                  |

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 Committees job is to make sure that all of the classes 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-charges 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 conducts awareness programmes, seminars and various activities periodically. Placement Cell Our colleges 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 entrepreneurs.

5.4 – Alumni Engagement



#### 5.4.1 – Whether the institution has registered Alumni Association?

Yes

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. The Alumni Association thereby provides a platform not to just merely give

#### 5.4.2 – No. of enrolled Alumni:

1265

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

0

#### 5.4.4 – Meetings/activities organized by Alumni Association :

Alumini meet was organized on 31-01-2019, 126 members participated.



## 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)?

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  |
|--|--|
| 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.  |
| 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   |
| 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.   |
| 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. |
| Library, ICT and Physical Infrastructure / Instrumentation | A well furnished library with ICT facility is open even after regular working hours. the library facility can  |

be accessed even by online.

|                            |   |
|----------------------------|---|
| Examination and Evaluation | <p>The institution is affiliated under Anna University and the examinations are conducted by the university.</p> <p>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.</p> |
| Curriculum Development     | <p>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.</p>  |
| Teaching and Learning      | <p>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</p>  |

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

| E-governance area        | Details   |
|--------------------------|---|
| Planning and Development | <p>The requirement comes from the head of the Department 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</p> |

### 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.V.Suresh           | NPTL   | Nill   | 1000              |
| 2018 | Dr.R.Benschwarts      | Workshop on VLSI Design  | Nill   | 2500              |
| 2018 | Mr.Lalin .L.Laudis    | NPTL   | Nill   | 1000              |
| 2018 | J.M.Aravind           | Nill   | Nill   | 6700              |
| 2018 | Manjusha              | Nill   | Nill   | 5800              |
| 2019 | Prof.J Arthur Vasanth | Advanced Trends in   | IEEE   | 1500              |

|                           |                      |                                |      |      |
|---------------------------|----------------------|--------------------------------|------|------|
|                           |                      | Engineering                    |      |      |
| 2019                      | Anish John Paul      | Advanced Trends in Engineering | IEEE | 1500 |
| 2019                      | Dayana V John        | Advanced Trends in Engineering | IEEE | 1500 |
| 2018                      | Ms.Austy B Evangelin | NPTL online certification      | Nill | 2000 |
| 2018                      | Ms.Janila            | NPTL online certification      | Nill | 2000 |
| <a href="#">View File</a> |                      |                                |      |      |

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                      | ORIENTATION PROGRAM  | Nill  | 08/07/2019 | 09/07/2019 | 112                                     | 42  |
| 2018                      | Training Programme on Data Analysis using MS Excel                           | Training Programme on Data Analysis using MS Excel                              | 20/08/2018 | 20/08/2018 | 102                                     | 12  |
| 2018                      | Digital Platform for Online Teaching Evaluation                              | Digital Platform for Online Teaching Evaluation                                 | 24/09/2018 | 24/09/2018 | 100                                     | 18  |
| 2018                      | workshop on Research Methodology   | workshop on Research Methodology  | 13/03/2019 | 14/03/2019 | 114                                     | 3   |
| <a href="#">View File</a> |  |   |            |            |   |   |

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 |
|---|---------------------------------|------------|------------|----------|
| AICTE SHORT TERM COURSE                         | 2                               | 04/02/2019 | 10/02/2019 | 7        |
| High Performance Computing for                  | 3                               | 04/02/2019 | 10/02/2019 | 7        |

|  |   |            |            |    |
|--|---|------------|------------|----|
| Science and Engineering  |   |            |            |    |
| Nptl Online Certification in cloud Computing                                     | 1 | 13/02/2019 | 18/04/2019 | 40 |
| Nptl Online Certification in Data Mining   | 2 | 11/02/2019 | 20/04/2019 | 40 |
| FDP in Teaching techniques   | 2 | 02/05/2019 | 03/05/2019 | 2  |
| Nptl Online Certification in Internet of Things                                  | 3 | 07/01/2019 | 24/04/2019 | 60 |
| Nptl Online Certification in Introduction to Wireless and Cellular Communication | 1 | 09/07/2018 | 24/10/2018 | 60 |
| Nptl Online Certification in The Joy of Computing using Python                   | 1 | 12/07/2018 | 17/10/2018 | 60 |
| <a href="#">View File</a>  |   |            |            |    |

#### 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  |
|--|--|---|
| A suitable group medical insurance scheme is being introduced for the benefit of staff members. Medical Leave is eligible for staff members Maternity leave facilities are being extended to the women faculty in accordance to the set rules and norms. | A suitable group medical insurance scheme is being introduced for the benefit of staff members. Medical Leave is eligible for staff members Maternity leave facilities are being extended to the women faculty in accordance to the set rules and norms. | A suitable general insurance scheme is being introduced to cover certain unforeseen eventualities like accidents etc. The task would be completed before the beginning of the next semester. Immediate medical assistance is available in our campus. |

### 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

|         |
|---------|
| 6120000 |
|---------|

## 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       | No       | Expert team from reputed institutions | Yes      | IQAC      |
| Administrative | Yes      | Expert team from reputed institutions | Yes      | IQAC      |

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               | Yes |
| 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 |
|-------------------|------------------------------------|-------------------------|---------------|-------------|------------------------|
| 2019              | NBA                                | 04/07/2019              | 04/07/2019    | 05/07/2019  | 112                    |
| 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 |
| How to achieve Gender equality | 03/09/2018  | 03/09/2018 | 55                     | 58   |
| Gender equality in Education   | 15/10/2018  | 15/10/2018 | 48                     | 43   |
| Women Empowerment              | 07/11/2018  | 07/11/2018 | 120                    | 0    |
| Democracy and Gender Equality  | 27/11/2018  | 27/11/2018 | 58                     | 56   |
| Future of Gender equality      | 21/01/2019  | 21/01/2019 | 25                     | 18   |

#### 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 |
|--------------------|--------|-------------------------|
| Provision for lift | Yes    | 0                       |

|            |     |   |
|------------|-----|---|
| Rest Rooms | Yes | 0 |
|------------|-----|---|

#### 7.1.4 – Inclusion and Situatedness

| Year              | Number of initiatives to address locational advantages and disadvantages | Number of initiatives taken to engage with and contribute to local community | Date | Duration | Name of initiative | Issues addressed | Number of participating students and staff |
|-------------------|--|--|------|----------|--------------------|------------------|--|
| Nill              | Nill   | Nill   | Nill | Nill     | NIL                | NIL              | Nill                                       |
| 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)  |
|--------------------|---------------------|---|
| STUDENTS HAND BOOK | 15/07/2018          | Discipline team to ensure the code of conduct. Any mis behaviour is followed by the greivence cell. |

#### 7.1.6 – Activities conducted for promotion of universal Values and Ethics

| Activity                       | Duration From | Duration To | Number of participants |
|--------------------------------|---------------|-------------|------------------------|
| Leadership of Mahatma Gandhi   | 13/08/2018    | 13/08/2018  | 54                     |
| Teacher's Day Celebration      | 05/09/2018    | 05/09/2018  | 55                     |
| International anti tobacco day | 03/04/2019    | 03/04/2019  | 60                     |
| Traffic Safety Program         | 01/10/2018    | 01/10/2018  | 82                     |
| Yoga Day celebration           | 21/06/2018    | 21/06/2018  | 50                     |
| International Volunteers Day   | 05/12/2018    | 05/12/2018  | 65                     |
| 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

<http://www.marephraem.edu.in/pages/igac/Best%20Practice.pdf>

### 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 all UG 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. Career guidance and placement cell to arrange coaching for the improved performance of students in competitive examinations Strengthening institute-industry linkages.