



APJ Abdul Kalam Technological University  
CET Campus, Thiruvananthapuram  
Kerala -695016  
India

Academic Audit Report  
2021 - 2022

**Basic Details**

|                     |                          |
|---------------------|--------------------------|
| Institution         | KMEA ENGINEERING COLLEGE |
| First Auditor Name  | Saju A                   |
| Second Auditor Name | Dr thankachan T Pullan   |
| Visit               | First                    |
| Semester Type       | Even                     |

**College Specific Assessments**

| Key Aspects                                                 | Rating       | Auditor Remarks | Principal's Response                                           |
|-------------------------------------------------------------|--------------|-----------------|----------------------------------------------------------------|
| Compliance to the Academic Calendar of KTU (A)              | Excellent(5) |                 |                                                                |
| Functioning of students grievances and appeal committee (A) | Excellent(5) |                 |                                                                |
| Functioning of Academic Discipline Welfare committee (A)    | Excellent(5) |                 |                                                                |
| Average student to faculty ratio (A)                        | Excellent(5) |                 |                                                                |
| Faculty Retention (A)                                       | Excellent(5) |                 |                                                                |
| Faculty Qualification Index (A)                             | Fair(3)      | FQI- 5.3        | We are in the process of increasing the number of Ph.D holders |
| Number of qualified technical staff (A)                     | Excellent(5) |                 |                                                                |



|                                                                                                  |              |                                             |                                                               |
|--------------------------------------------------------------------------------------------------|--------------|---------------------------------------------|---------------------------------------------------------------|
| Facility of central library with respect to volume and title of books, online print journals (A) | Good(4)      | More online and print journals are required | Measures have been taken                                      |
| Functioning of IQAC and Progress of IQAC report uploading (A)                                    | Excellent(5) |                                             |                                                               |
| Institution Budget (A)                                                                           | Excellent(5) |                                             |                                                               |
| Details of central computing facility (A)                                                        | Good(4)      | More Computing facility is preferred        | Additional systems will be purchased within one month.        |
| Principals response on previous audit reports (A)                                                | Good(4)      |                                             | Timely responses are usually given on remarks for improvement |

#### Student Interaction



| Key Aspects                                                    | Rating       | Auditor Remarks                                                                                                           | Principal's Response                                                                            |
|----------------------------------------------------------------|--------------|---------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|
| Syllabus coverage (B)                                          | Excellent(5) | Verified with students                                                                                                    |                                                                                                 |
| Lab Facility and conduct of Labs (B)                           | Good(4)      | Online lab conduct was not clear                                                                                          | Offline lab sessions were conducted in addition to online lab sessions                          |
| Co-curricular facility (B)                                     | Good(4)      | More guidance for student internship, permission for conduct of techfest etc                                              | Measures are taken for conducting internship and decision has been taken to conduct techfest... |
| Extra-curricular facility (B)                                  | Good(4)      | More games to be conducted                                                                                                | Due to bad weather, all scheduled games was not able to conduct.                                |
| Transferring all intimation from University in time (B)        | Excellent(5) | Yes                                                                                                                       |                                                                                                 |
| Approach of the management in addressing student grievance (B) | Good(4)      | Mentors taking up the grievance, some are not promptly resolved                                                           | Steps has been taken for the timely solution of grievance                                       |
| Availability of Faculty for all subjects (A)                   | Excellent(5) | Yes                                                                                                                       |                                                                                                 |
| Any other remarks (C)                                          | Excellent(5) | Students conveyed that for Sports, only one male faculty is available. A female faculty for girl students is also needed. |                                                                                                 |
| Extra fees/fine imposed on students (B)                        | Not Relevant | No extra fees/fine                                                                                                        | No extra fees has been imposed                                                                  |

B.Tech

|                       |      |
|-----------------------|------|
| No of B.Tech Students | 1034 |
|-----------------------|------|

**ELECTRONICS & COMMUNICATION ENGG-(Full Time)**

| Key Aspects                                                 | Rating       | Auditor Remarks | Principal's Response |
|-------------------------------------------------------------|--------------|-----------------|----------------------|
| Class/course committee meetings and action taken report (B) | Excellent(5) |                 |                      |





|                                                              |              |                                                                        |                                                                                                                                            |
|--------------------------------------------------------------|--------------|------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|
| Advisory meetings and action taken report (B)                | Excellent(5) |                                                                        |                                                                                                                                            |
| Syllabus coverage as per course plan (B)                     | Excellent(5) |                                                                        |                                                                                                                                            |
| Conduct of Tutorial Classes (B)                              | Excellent(5) |                                                                        |                                                                                                                                            |
| Evaluation of Answer Scripts (A):                            | Excellent(5) |                                                                        |                                                                                                                                            |
| Conduct of practical courses (B)                             | Good(4)      | 68% of experiments completed in the sample lab document.               | Compulsory and additional experiments were conducted                                                                                       |
| Evaluation of students performance in practical classes (A): | Good(4)      | Continuous evaluation marks split up should be specified for all labs. | Continuous evaluation marks split up are specified as per university guidelines for all labs.                                              |
| Facility to do experiments in the lab (A)                    | Excellent(5) |                                                                        |                                                                                                                                            |
| Conduct of remedial/minor/honours classes (B)                | Good(4)      | 5 students registered for Minor Honours- No students                   | Remedial classes/ Minor classes are conducted as per the timetable. Steps will be taken to promote students to register for minor/ honors  |
| Maintenance of course diary (A)                              | Good(4)      |                                                                        | All documents are prepared. But the arrangements of the documents has to be upgraded                                                       |
| Assessment of Outcomes (A)                                   | Excellent(5) |                                                                        |                                                                                                                                            |
| Faculty evaluation amp remarks of the HoD (A)                | Good(4)      | Document of faculty evaluation is not available                        | Feedback were taken and informed...Steps will be taken to document it...Remarks made by hod on Staff evaluation by students were submitted |
| Conduct of Seminar, Mini project, Project amp Thesis (A)     | Excellent(5) |                                                                        |                                                                                                                                            |



|                                                               |         |                                         |                                                   |
|---------------------------------------------------------------|---------|-----------------------------------------|---------------------------------------------------|
| Computing facility in the department (A)                      | Good(4) | Dept, computing facility to be improved |                                                   |
| Facility for co-curricular and extracurricular activities (B) | Good(4) |                                         |                                                   |
| Students attending MOOC or other online courses (B)           | Good(4) | Less students enrolled for MOOC courses | Steps will be taken to increase the student count |

#### COMPUTER SCIENCE & ENGINEERING-(Full Time)

| Key Aspects                                                  | Rating       | Auditor Remarks                                                                                   | Principal's Response |
|--------------------------------------------------------------|--------------|---------------------------------------------------------------------------------------------------|----------------------|
| Class/course committee meetings and action taken report (B)  | Excellent(5) |                                                                                                   |                      |
| Advisory meetings and action taken report (B)                | Excellent(5) |                                                                                                   |                      |
| Syllabus coverage as per course plan (B)                     | Excellent(5) |                                                                                                   |                      |
| Conduct of Tutorial Classes (B)                              | Excellent(5) |                                                                                                   |                      |
| Evaluation of Answer Scripts (A):                            | Excellent(5) |                                                                                                   |                      |
| Conduct of practical courses (B)                             | Excellent(5) | Mandatory experiments are covered                                                                 |                      |
| Evaluation of students performance in practical classes (A): | Excellent(5) |                                                                                                   |                      |
| Facility to do experiments in the lab (A)                    | Excellent(5) |                                                                                                   |                      |
| Conduct of remedial/minor/honours classes (B)                | Excellent(5) | Remedial records available<br>Minor subjects are offered by department,<br>Honours - Discontinued |                      |
| Maintenance of course diary (A)                              | Excellent(5) |                                                                                                   |                      |
| Assessment of Outcomes (A)                                   | Excellent(5) |                                                                                                   |                      |



|                                                               |              |                                              |                                                                                                                                              |
|---------------------------------------------------------------|--------------|----------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|
| Faculty evaluation and remarks of the HoD (A)                 | Good(4)      | Evaluation remarks not available.            | Feedback were taken and informed....Steps will be taken to document it...Remarks made by host on Staff evaluation by students were submitted |
| Conduct of Seminar, Mini project, Project and Thesis (A)      | Excellent(5) |                                              |                                                                                                                                              |
| Computing facility in the department (A)                      | Excellent(5) |                                              |                                                                                                                                              |
| Facility for co-curricular and extracurricular activities (B) | Good(4)      |                                              | Instructions have been given to department to conduct more activities                                                                        |
| Students attending MOOC or other online courses (B)           | Good(4)      | The students attending MOOC courses are less | Steps will be taken to increase the student count                                                                                            |

#### ELECTRONICS & INSTRUMENTATION ENGINEERING-(Full Time)

| Key Aspects                                                  | Rating       | Auditor Remarks                                     | Principal's Response                                              |
|--------------------------------------------------------------|--------------|-----------------------------------------------------|-------------------------------------------------------------------|
| Class/course committee meetings and action taken report (B)  | Excellent(5) | Register maintained                                 |                                                                   |
| Advisory meetings and action taken report (B)                | Excellent(5) | Register maintained                                 |                                                                   |
| Syllabus coverage as per course plan (B)                     | Excellent(5) |                                                     |                                                                   |
| Conduct of Tutorial Classes (B)                              | Excellent(5) | Register maintained                                 |                                                                   |
| Evaluation of Answer Scripts (A):                            | Good(4)      |                                                     | Steps will be taken to include detailed answer key in course file |
| Conduct of practical courses (B)                             | Excellent(5) | The university stipulated experiments are conducted |                                                                   |
| Evaluation of students performance in practical classes (A): | Excellent(5) |                                                     |                                                                   |
| Facility to do experiments in the lab (A)                    | Excellent(5) |                                                     |                                                                   |





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|---------------------------------------------------------------|--------------|-------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|
| Conduct of remedial/minor/honours classes (B)                 | Good(4)      |                                                 | Remedial classes are conducted as per the timetable.                                                                                       |
| Maintenance of course diary (A)                               | Excellent(5) |                                                 |                                                                                                                                            |
| Assessment of Outcomes (A)                                    | Good(4)      | Consolidated sheet to be included               | Instructions were given to calculate the outcome                                                                                           |
| Faculty evaluation and remarks of the HoD (A)                 | Good(4)      | Feedback details were not available             | Feedback were taken and informed...Steps will be taken to document it...Remarks made by hod on Staff evaluation by students were submitted |
| Conduct of Seminar, Mini project, Project and Thesis (A)      | Excellent(5) |                                                 |                                                                                                                                            |
| Computing facility in the department (A)                      | Good(4)      | Need more computing facility for the department |                                                                                                                                            |
| Facility for co-curricular and extracurricular activities (B) | Good(4)      |                                                 | Instructions have been given to department to conduct more activities                                                                      |
| Students attending MOOC or other online courses (B)           | Good(4)      | Students attending MOOC courses are less.       | Steps will be taken to increase the student count                                                                                          |

#### ELECTRICAL AND ELECTRONICS ENGINEERING-(Full Time)

| Key Aspects                                                 | Rating       | Auditor Remarks                         | Principal's Response                                             |
|-------------------------------------------------------------|--------------|-----------------------------------------|------------------------------------------------------------------|
| Class/course committee meetings and action taken report (B) | Excellent(5) |                                         |                                                                  |
| Advisory meetings and action taken report (B)               | Good(4)      | Action taken report should be completed | Instructions have been given to complete the action taken report |
| Syllabus coverage as per course plan (B)                    | Good(4)      |                                         | Syllabus were covered as per subject plan                        |
| Conduct of Tutorial Classes (B)                             | Excellent(5) |                                         |                                                                  |
| Evaluation of Answer Scripts (A):                           | Excellent(5) |                                         |                                                                  |



|                                                               |              |                                                                                                                |                                                                                                                                            |
|---------------------------------------------------------------|--------------|----------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|
| Conduct of practical courses (B)                              | Excellent(5) |                                                                                                                |                                                                                                                                            |
| Evaluation of students performance in practical classes (A):  | Excellent(5) |                                                                                                                |                                                                                                                                            |
| Facility to do experiments in the lab (A)                     | Excellent(5) |                                                                                                                |                                                                                                                                            |
| Conduct of remedial/minor/honours classes (B)                 | Good(4)      | More remedial classes are preferred.<br>There are few students who had opted for minor. No student for Honours | Remedial classes are conducted as per university guidelines                                                                                |
| Maintenance of course diary (A)                               | Excellent(5) |                                                                                                                |                                                                                                                                            |
| Assessment of Outcomes (A)                                    | Good(4)      |                                                                                                                | Instructions were given to complete the outcome assesment                                                                                  |
| Faculty evaluation amp remarks of the HoD (A)                 | Good(4)      |                                                                                                                | Feedback were taken and informed...Steps will be taken to document it...Remarks made by hod on Staff evaluation by students were submitted |
| Conduct of Seminar, Mini project, Project amp Thesis (A)      | Excellent(5) |                                                                                                                |                                                                                                                                            |
| Computing facility in the department (A)                      | Good(4)      | More dept. computing facility is preferred.                                                                    |                                                                                                                                            |
| Facility for co-curricular and extracurricular activities (B) | Good(4)      |                                                                                                                | Instructions have been given to department to conduct more activities                                                                      |
| Students attending MOOC or other online courses (B)           | Good(4)      | Students attending MOOC courses are less                                                                       | Steps will be taken to increase the student and count                                                                                      |

#### CIVIL ENGINEERING-(Full Time)

| Key Aspects | Rating | Auditor Remarks | Principal's Response |
|-------------|--------|-----------------|----------------------|
|-------------|--------|-----------------|----------------------|





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|--------------------------------------------------------------|--------------|--|--------------------------------------------------------------------------------------------------------------------------------------------|
| Class/course committee meetings and action taken report (B)  | Excellent(5) |  |                                                                                                                                            |
| Advisory meetings and action taken report (B)                | Excellent(5) |  |                                                                                                                                            |
| Syllabus coverage as per course plan (B)                     | Excellent(5) |  |                                                                                                                                            |
| Conduct of Tutorial Classes (B)                              | Excellent(5) |  |                                                                                                                                            |
| Evaluation of Answer Scripts (A):                            | Excellent(5) |  |                                                                                                                                            |
| Conduct of practical courses (B)                             | Excellent(5) |  |                                                                                                                                            |
| Evaluation of students performance in practical classes (A): | Excellent(5) |  |                                                                                                                                            |
| Facility to do experiments in the lab (A)                    | Excellent(5) |  |                                                                                                                                            |
| Conduct of remedial/minor/honours classes (B)                | Good(4)      |  | Remedial classes/ Minor classes are conducted as per the timetable. Steps will be taken to promote students to register for minor/ honors  |
| Maintenance of course diary (A)                              | Excellent(5) |  |                                                                                                                                            |
| Assessment of Outcomes (A)                                   | Good(4)      |  | Instructions were given to assess outcomes                                                                                                 |
| Faculty evaluation amp remarks of the HoD (A)                | Good(4)      |  | Feedback were taken and informed...Steps will be taken to document it...Remarks made by hod on Staff evaluation by students were submitted |
| Conduct of Seminar, Mini project, Project amp Thesis (A)     | Excellent(5) |  |                                                                                                                                            |



|                                                               |         |                                                    |                                                                       |
|---------------------------------------------------------------|---------|----------------------------------------------------|-----------------------------------------------------------------------|
| Computing facility in the department (A)                      | Good(4) | Needs improvement in department computing facility |                                                                       |
| Facility for co-curricular and extracurricular activities (B) | Good(4) |                                                    | Instructions have been given to department to conduct more activities |
| Students attending MOOC or other online courses (B)           | Good(4) | Students attending MOOC courses are less           | Steps will be taken to increase the student and count                 |

#### MECHANICAL ENGINEERING-(Full Time)

| Key Aspects                                                  | Rating       | Auditor Remarks | Principal's Response                     |
|--------------------------------------------------------------|--------------|-----------------|------------------------------------------|
| Class/course committee meetings and action taken report (B)  | Excellent(5) |                 |                                          |
| Advisory meetings and action taken report (B)                | Excellent(5) |                 |                                          |
| Syllabus coverage as per course plan (B)                     | Excellent(5) |                 |                                          |
| Conduct of Tutorial Classes (B)                              | Excellent(5) |                 |                                          |
| Evaluation of Answer Scripts (A):                            | Excellent(5) |                 |                                          |
| Conduct of practical courses (B)                             | Excellent(5) |                 |                                          |
| Evaluation of students performance in practical classes (A): | Excellent(5) |                 |                                          |
| Facility to do experiments in the lab (A)                    | Excellent(5) |                 |                                          |
| Conduct of remedial/minor/honours classes (B)                | Excellent(5) |                 |                                          |
| Maintenance of course diary (A)                              | Excellent(5) |                 |                                          |
| Assessment of Outcomes (A)                                   | Good(4)      |                 | Instruction were given to assess outcome |



|                                                               |              |                                            |                                                                       |
|---------------------------------------------------------------|--------------|--------------------------------------------|-----------------------------------------------------------------------|
| Faculty evaluation amp remarks of the HoD (A)                 | Excellent(5) |                                            |                                                                       |
| Conduct of Seminar, Mini project, Project amp Thesis (A)      | Excellent(5) |                                            |                                                                       |
| Computing facility in the department (A)                      | Good(4)      | More dept. computing facility is preferred |                                                                       |
| Facility for co-curricular and extracurricular activities (B) | Good(4)      |                                            | Instructions have been given to department to conduct more activities |
| Students attending MOOC or other online courses (B)           | Excellent(5) |                                            |                                                                       |

#### M.Tech

|                       |    |
|-----------------------|----|
| No of M.Tech Students | 30 |
|-----------------------|----|

#### ELECTRONICS AND COMMUNICATION ENGINEERING(COMMUNICATION ENGINEERING)-(Full Time)

| Key Aspects                                                 | Rating       | Auditor Remarks        | Principal's Response                                                   |
|-------------------------------------------------------------|--------------|------------------------|------------------------------------------------------------------------|
| Class/course committee meetings and action taken report (B) | Not Relevant | No students for M Tech | Measures were taken to admit students in Electronics and Communication |
| Syllabus coverage as per course plan (B)                    | Not Relevant |                        |                                                                        |
| Evaluation of Answer Scripts (A):                           | Not Relevant |                        |                                                                        |
| Maintenance of course diary (A)                             | Not Relevant |                        |                                                                        |
| Faculty evaluation amp remarks of the HoD (A)               | Not Relevant |                        |                                                                        |
| Facility in the department library for references (C)       | Not Relevant |                        |                                                                        |
| Conduct of Seminar, Mini project, Project amp Thesis (A)    | Not Relevant |                        |                                                                        |
| Faculty with Ph.D for the program (A)                       | Not Relevant |                        |                                                                        |





|                                                               |              |  |  |
|---------------------------------------------------------------|--------------|--|--|
| Computing facility in the department (A)                      | Not Relevant |  |  |
| Facility for co-curricular and extracurricular activities (B) | Not Relevant |  |  |
| Students attending MOOC or other online courses (B)           | Not Relevant |  |  |

#### **CIVIL ENGINEERING(COMPUTER AIDED STRUCTURAL ENGINEERING)-(Full Time)**

| Key Aspects                                                   | Rating       | Auditor Remarks                      | Principal's Response                                                     |
|---------------------------------------------------------------|--------------|--------------------------------------|--------------------------------------------------------------------------|
| Class/course committee meetings and action taken report (B)   | Excellent(5) |                                      |                                                                          |
| Syllabus coverage as per course plan (B)                      | Excellent(5) |                                      |                                                                          |
| Evaluation of Answer Scripts (A):                             | Excellent(5) |                                      |                                                                          |
| Maintenance of course diary (A)                               | Excellent(5) |                                      |                                                                          |
| Faculty evaluation amp remarks of the HoD (A)                 | Good(4)      |                                      | Feedback were taken and informed...Steps will be taken to document it... |
| Facility in the department library for references (C)         | Good(4)      | same as UG                           |                                                                          |
| Conduct of Seminar, Mini project, Project amp Thesis (A)      | Good(4)      | All documents should be complete     | Instructions were given                                                  |
| Faculty with Ph.D for the program (A)                         | Good(4)      | PhD holder- 1 faculty                | 3 PhD holders are there in CE department                                 |
| Computing facility in the department (A)                      | Good(4)      | Using CAD lab facility of UG         |                                                                          |
| Facility for co-curricular and extracurricular activities (B) | Good(4)      |                                      | Instructions have been given to department to conduct more activities    |
| Students attending MOOC or other online courses (B)           | Good(4)      | Less students attending MOOC courses | Steps will be taken to increase the student count                        |

#### **ELECTRICAL AND ELECTRONICS ENGINEERING(POWER ELECTRONICS)-(Full Time)**

| Key Aspects                                                   | Rating       | Auditor Remarks                                 | Principal's Response                                                                 |
|---------------------------------------------------------------|--------------|-------------------------------------------------|--------------------------------------------------------------------------------------|
| Class/course committee meetings and action taken report (B)   | Excellent(5) |                                                 |                                                                                      |
| Syllabus coverage as per course plan (B)                      | Excellent(5) |                                                 |                                                                                      |
| Evaluation of Answer Scripts (A):                             | Excellent(5) |                                                 |                                                                                      |
| Maintenance of course diary (A)                               | Good(4)      | Documentation should be proper with all details | All documents are prepared. But the arrangements of the documents has to be upgraded |
| Faculty evaluation amp remarks of the HoD (A)                 | Good(4)      |                                                 | Feedback were taken and informed...Steps will be taken to document it...             |
| Facility in the department library for references (C)         | Good(4)      | Same as UG                                      |                                                                                      |
| Conduct of Seminar, Mini project, Project amp Thesis (A)      | Good(4)      | Documentation should be proper with all details | Instructions were given to make proper document                                      |
| Faculty with Ph.D for the program (A)                         | Excellent(5) | 3 PhD holders                                   |                                                                                      |
| Computing facility in the department (A)                      | Good(4)      | More computing facility preferred               |                                                                                      |
| Facility for co-curricular and extracurricular activities (B) | Good(4)      |                                                 | Instructions have been given to department to conduct more activities                |
| Students attending MOOC or other online courses (B)           | Fair(3)      | No available records                            | Steps will be taken to increase the student count                                    |

#### COMPUTER SCIENCE AND ENGINEERING(COMPUTER SCIENCE AND ENGINEERING)-(Full Time)

| Key Aspects                                                 | Rating       | Auditor Remarks | Principal's Response |
|-------------------------------------------------------------|--------------|-----------------|----------------------|
| Class/course committee meetings and action taken report (B) | Excellent(5) |                 |                      |
| Syllabus coverage as per course plan (B)                    | Excellent(5) |                 |                      |



|                                                               |              |                                      |                                                                          |
|---------------------------------------------------------------|--------------|--------------------------------------|--------------------------------------------------------------------------|
| Evaluation of Answer Scripts (A):                             | Excellent(5) |                                      |                                                                          |
| Maintenance of course diary (A)                               | Excellent(5) |                                      |                                                                          |
| Faculty evaluation and remarks of the HoD (A)                 | Good(4)      |                                      | Feedback were taken and informed...Steps will be taken to document it... |
| Facility in the department library for references (C)         | Good(4)      | Same as UG                           |                                                                          |
| Conduct of Seminar, Mini project, Project and Thesis (A)      | Good(4)      |                                      | Properly conducted                                                       |
| Faculty with Ph.D for the program (A)                         | Good(4)      | Faculty with PhD- 2                  | Advertisement given to take more phd holders                             |
| Computing facility in the department (A)                      | Good(4)      | Need more PG computing facility      |                                                                          |
| Facility for co-curricular and extracurricular activities (B) | Good(4)      |                                      | Instructions have been given to department to conduct more activities    |
| Students attending MOOC or other online courses (B)           | Good(4)      | Less students attending MOOC courses | Steps will be taken to increase the student count                        |



*Quied*