



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

**Academic Audit Report**  
**2021 - 2022**

**Basic Details**

Institution	<b>ST JOSEPHS COLLEGE OF ENGINEERING AND TECHNOLOGY PALAI</b>
First Auditor Name	<b>Dr Amith Aravind</b>
Second Auditor Name	<b>Dr Rajesh J</b>
Visit	<b>First</b>
Semester Type	<b>Even</b>

**College Specific Assessments**

<b>Key Aspects</b>	<b>Rating</b>	<b>Auditor Remarks</b>	<b>Principal's Response</b>
Compliance to the Academic Calendar of KTU (A)	Good(4)	A slight variation because of the college events	College calendar and department calendar in accordance with University Calendar is prepared and followed. The current variation from the calendar happened due to the visit of NBA EVC which was announced on short notice
Functioning of students grievances and appeal committee (A)	Excellent(5)		Noted
Functioning of Academic Discipline Welfare committee (A)	Excellent(5)		Noted
Average student to faculty ratio (A)	Excellent(5)	1.11	Noted
Faculty Retention (A)	Good(4)	0.98 for 2020-21 AY	Noted. Retention will be improved in future.

Faculty Qualification Index (A)	Good(4)		Quite a number of faculty is undergoing Ph.D programmes. Every year more than 5 faculty members are getting awarded Ph.D and the faculty qualification index will be improved in the near future.
Number of qualified technical staff (A)	Excellent(5)	36 numbers	Noted
Facility of central library with respect to volume and title of books, online print journals (A)	Excellent(5)		Noted
Functioning of IQAC and Progress of IQAC report uploading (A)	Excellent(5)		Noted
Institution Budget (A)	Excellent(5)		Noted
Details of central computing facility (A)	Excellent(5)	597 systems in total.	Noted
Principals response on previous audit reports (A)	Excellent(5)		Noted

### **Student Interaction**

Key Aspects	Rating	Auditor Remarks	Principal's Response
Syllabus coverage (B)	Excellent(5)		Noted
Lab Facility and conduct of Labs (B)	Excellent(5)		Noted
Co-curricular facility (B)	Excellent(5)		Noted
Extra-curricular facility (B)	Excellent(5)		Noted
Transferring all intimation from University in time (B)	Good(4)	Through group whats app. Suggested to post the notification through college mail also.	Instructions are issued to the Senior Faculty Advisors of each semester to transfer all student relevant University intimations through the concerned student Whats App groups which is the preferred mode of communication by the students. However, the possibility of communicating through e-mail is being examined.
Approach of the management in addressing student grievance (B)	Excellent(5)		Noted
Availability of Faculty for all subjects (A)	Excellent(5)		Noted
Any other remarks (C)	Excellent(5)	Nothing specific	Noted
Extra fees/fine imposed on students (B)	Excellent(5)	No extra fees/fine imposed	Noted

### B.Tech

<b>No of B.Tech Students</b>	1717
------------------------------	------

### MECHANICAL ENGINEERING-(Full Time)

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

Advisory meetings and action taken report (B)	Excellent(5)		Noted
Syllabus coverage as per course plan (B)	Excellent(5)		Noted
Conduct of Tutorial Classes (B)	Good(4)	Entries in course dairy and tutorial register has to be the same	The entries in the Tutorial Register have been updated
Evaluation of Answer Scripts (A):	Excellent(5)		Noted
Conduct of practical courses (B)	Excellent(5)		Noted
Evaluation of students performance in practical classes (A):	Excellent(5)		Noted
Facility to do experiments in the lab (A)	Excellent(5)		Noted
Conduct of remedial/minor/honours classes (B)	Good(4)		Separate remedial registers for each batch have been started for proper monitoring of remedial classes.
Maintenance of course diary (A)	Excellent(5)		Noted
Assessment of Outcomes (A)	Excellent(5)		Noted
Faculty evaluation amp remarks of the HoD (A)	Excellent(5)		Noted
Conduct of Seminar, Mini project, Project amp Thesis (A)	Excellent(5)		Noted
Computing facility in the department (A)	Excellent(5)	58 systems in the department with the latest configurations	Noted
Facility for co-curricular and extracurricular activities (B)	Excellent(5)		Noted
Students attending MOOC or other online courses (B)	Excellent(5)	113 students attended MOOC in the AY 21-22	Noted

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

<b>Key Aspects</b>	<b>Rating</b>	<b>Auditor Remarks</b>	<b>Principal's Response</b>
Class/course committee meetings and action taken report (B)	Excellent(5)		Noted
Advisory meetings and action taken report (B)	Excellent(5)		Noted
Syllabus coverage as per course plan (B)	Excellent(5)		Noted
Conduct of Tutorial Classes (B)	Excellent(5)		Noted
Evaluation of Answer Scripts (A):	Excellent(5)		Noted
Conduct of practical courses (B)	Excellent(5)		Noted
Evaluation of students performance in practical classes (A):	Excellent(5)		Noted
Facility to do experiments in the lab (A)	Excellent(5)		Noted
Conduct of remedial/minor/honours classes (B)	Good(4)	The data for remedial students need to be updated	The data of remedial classes will be updated
Maintenance of course diary (A)	Excellent(5)		Noted
Assessment of Outcomes (A)	Excellent(5)		Noted
Faculty evaluation amp remarks of the HoD (A)	Excellent(5)		Noted
Conduct of Seminar, Mini project, Project amp Thesis (A)	Excellent(5)		Noted
Computing facility in the department (A)	Excellent(5)		Noted
Facility for co-curricular and extracurricular activities (B)	Excellent(5)		Noted

Students attending MOOC or other online courses (B)	Good(4)	4 students attended MOOC. Requested to encourage more students to attend MOOC.	70% of the final year attended Cousera courses. Attending of NPTEL courses will be promoted among students of all semesters
---	---------	--	---

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

<b>Key Aspects</b>	<b>Rating</b>	<b>Auditor Remarks</b>	<b>Principal's Response</b>
Class/course committee meetings and action taken report (B)	Good(4)	Second and fourth semester minutes to be updated	Updated as soon as the meeting was conducted
Advisory meetings and action taken report (B)	Good(4)	Second and fourth semester minutes to be updated	Updated as soon as the meeting was conducted
Syllabus coverage as per course plan (B)	Excellent(5)		Noted
Conduct of Tutorial Classes (B)	Good(4)	Tutorial register to be updated	Updated
Evaluation of Answer Scripts (A):	Excellent(5)		Noted
Conduct of practical courses (B)	Excellent(5)		Noted
Evaluation of students performance in practical classes (A):	Excellent(5)		Noted
Facility to do experiments in the lab (A)	Excellent(5)		Noted
Conduct of remedial/minor/honours classes (B)	Good(4)	Details of honours and remedial have to be updated	Honours MOOC Courses shall commence in the month of July 22, Remedial class started after conduct of I Internal Test
Maintenance of course diary (A)	Excellent(5)		Noted
Assessment of Outcomes (A)	Excellent(5)		Noted
Faculty evaluation amp remarks of the HoD (A)	Good(4)	Need to be compiled for batches	Compiled after conduct of I Internal Test

Conduct of Seminar, Mini project, Project amp Thesis (A)	Excellent(5)		Noted
Computing facility in the department (A)	Excellent(5)		Noted
Facility for co-curricular and extracurricular activities (B)	Excellent(5)		Noted
Students attending MOOC or other online courses (B)	Excellent(5)		Noted

### **Electronics and Computer Engineering-(Full Time)**

<b>Key Aspects</b>	<b>Rating</b>	<b>Auditor Remarks</b>	<b>Principal's Response</b>
Class/course committee meetings and action taken report (B)	Excellent(5)		Noted
Advisory meetings and action taken report (B)	Excellent(5)		Noted
Syllabus coverage as per course plan (B)	Excellent(5)		Noted
Conduct of Tutorial Classes (B)	Excellent(5)		Noted
Evaluation of Answer Scripts (A):	Excellent(5)		Noted
Conduct of practical courses (B)	Excellent(5)	Students are up to the second semester and hence only basic courses and workshop has been completed	Noted
Evaluation of students performance in practical classes (A):	Excellent(5)	Students are up to the second semester and hence only basic courses and workshop has been completed	Noted
Facility to do experiments in the lab (A)	Excellent(5)		Noted
Conduct of remedial/minor/honours classes (B)	Not Relevant	Only up to the second semester	Noted

Maintenance of course diary (A)	Excellent(5)		Noted
Assessment of Outcomes (A)	Not Relevant	Result not published	Noted
Faculty evaluation amp remarks of the HoD (A)	Excellent(5)		Noted
Conduct of Seminar, Mini project, Project amp Thesis (A)	Not Relevant		Noted
Computing facility in the department (A)	Excellent(5)		Noted
Facility for co-curricular and extracurricular activities (B)	Excellent(5)		Noted
Students attending MOOC or other online courses (B)	Not Relevant		Noted

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

<b>Key Aspects</b>	<b>Rating</b>	<b>Auditor Remarks</b>	<b>Principal's Response</b>
Class/course committee meetings and action taken report (B)	Excellent(5)		Noted
Advisory meetings and action taken report (B)	Excellent(5)		Noted
Syllabus coverage as per course plan (B)	Excellent(5)		Noted
Conduct of Tutorial Classes (B)	Excellent(5)		Noted
Evaluation of Answer Scripts (A):	Excellent(5)		Noted
Conduct of practical courses (B)	Excellent(5)		Noted
Evaluation of students performance in practical classes (A):	Excellent(5)		Noted
Facility to do experiments in the lab (A)	Excellent(5)		Noted

Conduct of remedial/minor/honours classes (B)	Good(4)	Minor and Honours to be updated	Minor class files are updated and there are no honours class offered in the department.
Maintenance of course diary (A)	Excellent(5)		Noted
Assessment of Outcomes (A)	Excellent(5)		Noted
Faculty evaluation amp remarks of the HoD (A)	Excellent(5)		Noted
Conduct of Seminar, Mini project, Project amp Thesis (A)	Excellent(5)		Noted
Computing facility in the department (A)	Excellent(5)		Noted
Facility for co-curricular and extracurricular activities (B)	Excellent(5)		Noted
Students attending MOOC or other online courses (B)	Good(4)	10 students attended MOOC	More students are encouraged to register for MOOC courses.

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

<b>Key Aspects</b>	<b>Rating</b>	<b>Auditor Remarks</b>	<b>Principal's Response</b>
Class/course committee meetings and action taken report (B)	Excellent(5)		Noted
Advisory meetings and action taken report (B)	Excellent(5)		Noted
Syllabus coverage as per course plan (B)	Excellent(5)		Noted
Conduct of Tutorial Classes (B)	Excellent(5)		Noted
Evaluation of Answer Scripts (A):	Excellent(5)		Noted
Conduct of practical courses (B)	Excellent(5)		Noted

Evaluation of students performance in practical classes (A):	Excellent(5)		Noted
Facility to do experiments in the lab (A)	Excellent(5)		Noted
Conduct of remedial/minor/honours classes (B)	Excellent(5)		Noted
Maintenance of course diary (A)	Excellent(5)		Noted
Assessment of Outcomes (A)	Excellent(5)		Noted
Faculty evaluation amp remarks of the HoD (A)	Excellent(5)		Noted
Conduct of Seminar, Mini project, Project amp Thesis (A)	Excellent(5)		Noted
Computing facility in the department (A)	Excellent(5)		Noted
Facility for co-curricular and extracurricular activities (B)	Excellent(5)		Noted
Students attending MOOC or other online courses (B)	Excellent(5)		Noted

### **CIVIL ENGINEERING-(Full Time)**

<b>Key Aspects</b>	<b>Rating</b>	<b>Auditor Remarks</b>	<b>Principal's Response</b>
Class/course committee meetings and action taken report (B)	Excellent(5)		Noted
Advisory meetings and action taken report (B)	Excellent(5)		Noted
Syllabus coverage as per course plan (B)	Excellent(5)		Noted
Conduct of Tutorial Classes (B)	Excellent(5)		Noted
Evaluation of Answer Scripts (A):	Excellent(5)		Noted

Conduct of practical courses (B)	Excellent(5)		Noted
Evaluation of students performance in practical classes (A):	Excellent(5)		Noted
Facility to do experiments in the lab (A)	Excellent(5)		Noted
Conduct of remedial/minor/honours classes (B)	Excellent(5)		Noted
Maintenance of course diary (A)	Excellent(5)		Noted
Assessment of Outcomes (A)	Excellent(5)		Noted
Faculty evaluation amp remarks of the HoD (A)	Excellent(5)		Noted
Conduct of Seminar, Mini project, Project amp Thesis (A)	Excellent(5)		Noted
Computing facility in the department (A)	Excellent(5)	60 systems in lab	Noted
Facility for co-curricular and extracurricular activities (B)	Excellent(5)		Noted
Students attending MOOC or other online courses (B)	Good(4)	64 students	More students will be encouraged

#### **Artificial Intelligence and Data Science-(Full Time)**

<b>Key Aspects</b>	<b>Rating</b>	<b>Auditor Remarks</b>	<b>Principal's Response</b>
Class/course committee meetings and action taken report (B)	Excellent(5)		Noted
Advisory meetings and action taken report (B)	Excellent(5)		Noted
Syllabus coverage as per course plan (B)	Excellent(5)		Noted
Conduct of Tutorial Classes (B)	Excellent(5)		Noted

Evaluation of Answer Scripts (A):	Excellent(5)		Noted
Conduct of practical courses (B)	Excellent(5)		Noted
Evaluation of students performance in practical classes (A):	Excellent(5)		Noted
Facility to do experiments in the lab (A)	Excellent(5)		Noted
Conduct of remedial/minor/honours classes (B)	Good(4)	Need to be updated	Will be implemented
Maintenance of course diary (A)	Excellent(5)		Noted
Assessment of Outcomes (A)	Good(4)	To be compiled in the department	Semstet1 and semester 2 classes are engaged by faculty from other departments. So the attainment is available on the corresponding course file. The Copy of the attainment will made available to Department
Faculty evaluation amp remarks of the HoD (A)	Excellent(5)		Noted
Conduct of Seminar, Mini project, Project amp Thesis (A)	Not Relevant	Up to the fourth semester	Not Applicable
Computing facility in the department (A)	Excellent(5)		Noted
Facility for co-curricular and extracurricular activities (B)	Excellent(5)		Noted

Students attending MOOC or other online courses (B)	Good(4)	2 students attended MOOC. Requested to encourage more students to attend.	Currently the no of students attending the course are more than 15. In semester 12 students are not much aware about the recent trends in their domain but department arranged an awareness class about this so the no of registration is increased
---	---------	---	---

### M.Tech

<b>No of M.Tech Students</b>	69
------------------------------	----

### ELECTRONICS AND COMMUNICATION ENGINEERING(VLSI AND EMBEDDED SYSTEMS)-(Full Time)

Key Aspects	Rating	Auditor Remarks	Principal's Response
Class/course committee meetings and action taken report (B)	Excellent(5)		Noted
Syllabus coverage as per course plan (B)	Excellent(5)		Noted
Evaluation of Answer Scripts (A):	Excellent(5)		Noted
Maintenance of course diary (A)	Excellent(5)		Noted
Faculty evaluation amp remarks of the HoD (A)	Excellent(5)		Noted
Facility in the department library for references (C)	Excellent(5)		Noted
Conduct of Seminar, Mini project, Project amp Thesis (A)	Excellent(5)		Noted
Faculty with Ph.D for the program (A)	Excellent(5)	4 faculty with PhD degree	Noted
Computing facility in the department (A)	Excellent(5)	120 systems	Noted
Facility for co-curricular and extracurricular activities (B)	Excellent(5)		Noted

Students attending MOOC or other online courses (B)	Excellent(5)		Noted
---	--------------	--	-------

**MECHANICAL ENGINEERING(ADVANCED MANUFACTURING AND PRODUCTION MANAGEMENT)-(Full Time)**

Key Aspects	Rating	Auditor Remarks	Principal's Response
Class/course committee meetings and action taken report (B)	Excellent(5)		Noted
Syllabus coverage as per course plan (B)	Good(4)		Instruction have been given to Faculty Members to cover the topics according the plan as far as possible.
Evaluation of Answer Scripts (A):	Not Relevant	There are no current second-semester PG classes	Noted
Maintenance of course diary (A)	Excellent(5)	Only for fourth semester PG classes	Noted
Faculty evaluation amp remarks of the HoD (A)	Excellent(5)		Noted
Facility in the department library for references (C)	Excellent(5)	1935 books in the department library	Noted
Conduct of Seminar, Mini project, Project amp Thesis (A)	Excellent(5)		Noted
Faculty with Ph.D for the program (A)	Excellent(5)	8 faculty with PhD	Noted
Computing facility in the department (A)	Excellent(5)	58 systems with the latest configurations	Noted
Facility for co-curricular and extracurricular activities (B)	Excellent(5)		Noted
Students attending MOOC or other online courses (B)	Good(4)	4 nos, it is advisable to encourage more PG students take MOOC	Motivated the students to register and attend the NPTEL and other MOOC courses in the current semester.

**CIVIL ENGINEERING(STRUCTURAL ENGINEERING AND CONSTRUCTION MANAGEMENT)-(Full Time)**

Key Aspects	Rating	Auditor Remarks	Principal's Response
Class/course committee meetings and action taken report (B)	Excellent(5)		Noted
Syllabus coverage as per course plan (B)	Excellent(5)		Noted
Evaluation of Answer Scripts (A):	Excellent(5)		Noted
Maintenance of course diary (A)	Excellent(5)		Noted
Faculty evaluation amp remarks of the HoD (A)	Excellent(5)		Noted
Facility in the department library for references (C)	Good(4)	201 books in the department library. Shared with the central library.	Facilities will be improved
Conduct of Seminar, Mini project, Project amp Thesis (A)	Excellent(5)		Noted
Faculty with Ph.D for the program (A)	Excellent(5)	1 faculty with a PhD	Noted
Computing facility in the department (A)	Excellent(5)	60 systems	Noted
Facility for co-curricular and extracurricular activities (B)	Excellent(5)		Noted
Students attending MOOC or other online courses (B)	Excellent(5)	24 students attended MOOC	Noted

#### **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)		Noted
Syllabus coverage as per course plan (B)	Excellent(5)		Noted
Evaluation of Answer Scripts (A):	Excellent(5)		Noted

Maintenance of course diary (A)	Excellent(5)		Noted
Faculty evaluation amp remarks of the HoD (A)	Good(4)	Need to be compiled	Compiled after conduct of I Internal Test
Facility in the department library for references (C)	Excellent(5)	Shared with central library	Noted
Conduct of Seminar, Mini project, Project amp Thesis (A)	Excellent(5)		Noted
Faculty with Ph.D for the program (A)	Excellent(5)	3 faculty members with PhD	Noted
Computing facility in the department (A)	Excellent(5)	24 systems dedicated to PG students	Noted
Facility for co-curricular and extracurricular activities (B)	Excellent(5)		Noted
Students attending MOOC or other online courses (B)	Excellent(5)	All students from the fourth semester PG attended MOOC	Noted

#### **MBA**

<b>No of MBA Students</b>	82
---------------------------	----

#### **MASTERS IN BUSINESS ADMINISTRATION-(Full Time)**

<b>Key Aspects</b>	<b>Rating</b>	<b>Auditor Remarks</b>	<b>Principal's Response</b>
Class/course committee meetings and action taken report (B)	Good(4)	Some ATR need to be updated	ATR updated
Syllabus coverage as per course plan (B)	Excellent(5)		Noted
Evaluation of Answer Scripts (A):	Excellent(5)		Noted
Maintenance of course diary (A)	Excellent(5)		Noted
Faculty evaluation amp remarks of the HoD (A)	Excellent(5)		Noted
Facility in the department library for references (C)	Excellent(5)	Shared with central library	Noted

Conduct of Seminar, Mini project, Project amp Thesis (A)	Excellent(5)		Noted
Faculty with Ph.D for the program (A)	Excellent(5)	5 faculty members with PhD	Noted
Computing facility in the department (A)	Excellent(5)	8 systems in the lab, all students use personal laptops	Noted
Facility for co-curricular and extracurricular activities (B)	Excellent(5)		Noted
Students attending MOOC or other online courses (B)	Excellent(5)	42 students attended MOOC	Noted

#### **MASTERS IN COMPUTER APPLICATIONS-(Full Time)**

<b>Key Aspects</b>	<b>Rating</b>	<b>Auditor Remarks</b>	<b>Principal's Response</b>
Class/course committee meetings and action taken report (B)	Excellent(5)		Noted
Syllabus coverage as per course plan (B)	Excellent(5)		Noted
Evaluation of Answer Scripts (A):	Excellent(5)		Noted
Maintenance of course diary (A)	Excellent(5)		Noted
Faculty evaluation amp remarks of the HoD (A)	Excellent(5)		Noted
Facility in the department library for references (C)	Excellent(5)	Shared with the central library. 115 books in the department library.	Noted
Conduct of Seminar, Mini project, Project amp Thesis (A)	Excellent(5)		Noted
Faculty with Ph.D for the program (A)	Good(4)	1 faculty with PhD	In order to improve faculty qualification, 4 faculty members are pursuing PhD.
Computing facility in the department (A)	Excellent(5)	60 systems	Noted

Facility for co-curricular and extracurricular activities (B)	Excellent(5)		Noted
Students attending MOOC or other online courses (B)	Good(4)	Encourage all students to undergo MOOC	Students attending MOOC or other online courses (B)Good(4)Encourage all students to undergo MOOC Noted. All students registered for NPTEL MOOC for this semester.

### MCA TWO YEARS

<b>No of MCA TWO YEARS Students</b>	98
-------------------------------------	----

### MCA TWO YEARS-(Full Time)

Key Aspects	Rating	Auditor Remarks	Principal's Response
Class/course committee meetings and action taken report (B)	Excellent(5)		Noted
Syllabus coverage as per course plan (B)	Excellent(5)		Noted
Evaluation of Answer Scripts (A):	Excellent(5)		Noted
Maintenance of course diary (A)	Excellent(5)		Noted
Faculty evaluation amp remarks of the HoD (A)	Excellent(5)		Noted
Facility in the department library for references (C)	Excellent(5)	Shared with the central library. 115 books in the department library.	Noted
Conduct of Seminar, Mini project, Project amp Thesis (A)	Excellent(5)		Noted
Faculty with Ph.D for the program (A)	Good(4)	1 faculty with PhD	Faculty with Ph.D for the program (A)Good(4)1 faculty with PhD In order to improve faculty qualification, 4 faculty members are pursuing PhD.

Computing facility in the department (A)	Excellent(5)	60 systems	Noted
Facility for co-curricular and extracurricular activities (B)	Excellent(5)		Noted
Students attending MOOC or other online courses (B)	Excellent(5)	100 students attended MOOC	Noted