



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

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

**Basic Details**

Institution	<b>NSS COLLEGE OF ENGINEERING</b>
First Auditor Name	<b>Dr Rajashree Raghavan</b>
Second Auditor Name	<b>Dr Mredhula L</b>
Visit	<b>First</b>
Semester Type	<b>Odd</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)	Excellent(5)	Complying with the KTU Academic Calendar.	
Functioning of students grievances and appeal committee (A)	Excellent(5)	Functioning according to the university norms.	
Functioning of Academic Discipline Welfare committee (A)	Excellent(5)	Functioning as per the guidelines of the university.	
Average student to faculty ratio (A)	Excellent(5)	1.015	
Faculty Retention (A)	Excellent(5)	Greater than or equal to 1 for consecutive years/semester.	
Faculty Qualification Index (A)	Good(4)	6.28. Few faculty are pursuing PhD.	
Number of qualified technical staff (A)	Excellent(5)		

Facility of central library with respect to volume and title of books, online print journals (A)	Excellent(5)	35,246 title of books, volume= 63,094, print journals-56, and sufficient number of online journals.	
Functioning of IQAC and Progress of IQAC report uploading (A)	Good(4)	Functioning as per the norms. Conducting internal audits as per the directions from the university.	
Institution Budget (A)	Excellent(5)	Well-detailed	
Details of central computing facility (A)	Excellent(5)	Adequate	
Principals response on previous audit reports (A)	Excellent(5)	Timely response from the Principal.	

### Student Interaction

Key Aspects	Rating	Auditor Remarks	Principal's Response
Syllabus coverage (B)	Good(4)	Almost all the courses are covered as per the course plan.	
Lab Facility and conduct of Labs (B)	Excellent(5)	Well-equipped laboratories. Experiments are conducted as per the syllabus.	
Co-curricular facility (B)	Excellent(5)	Students have enough opportunities for conducting/ participating in co-curricular activities.	
Extra-curricular facility (B)	Excellent(5)	Ample opportunity	
Transferring all intimation from University in time (B)	Excellent(5)	Students (both PG and UG) are satisfied.	
Approach of the management in addressing student grievance (B)	Excellent(5)		
Availability of Faculty for all subjects (A)	Excellent(5)	All courses are properly handled.	
Any other remarks (C)	Not Relevant		
Extra fees/fine imposed on students (B)	Excellent(5)	No extra fees/ fine imposed on students	

**B.Tech**

<b>No of B.Tech Students</b>	2435
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**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)	Meetings conducted as per the academic schedule. Minutes maintained properly.	
Advisory meetings and action taken report (B)	Excellent(5)	Meetings conducted as per the academic schedule. Minutes maintained properly.	
Syllabus coverage as per course plan (B)	Excellent(5)		
Conduct of Tutorial Classes (B)	Good(4)	Tutorial hours may be marked in the timetable. A tutorial register may be maintained in the department.	
Evaluation of Answer Scripts (A):	Excellent(5)	Done effectively.	
Conduct of practical courses (B)	Good(4)	4 experiments have been completed on an average.	
Evaluation of students performance in practical classes (A):	Excellent(5)	Continuous evaluation is being done.	
Facility to do experiments in the lab (A)	Excellent(5)	Laboratories are well-equipped to conduct all the experiments as prescribed in the syllabus.	
Conduct of remedial/minor/honours classes (B)	Good(4)	Remedial register may be maintained in the department.	
Maintenance of course diary (A)	Excellent(5)	Properly maintained.	

Assessment of Outcomes (A)	Excellent(5)	Done as per NBA/ KTU guidelines.	
Faculty evaluation amp remarks of the HoD (A)	Excellent(5)	Evaluation done and remarks from HoD obtained.	
Conduct of Seminar, Mini project, Project amp Thesis (A)	Excellent(5)		
Computing facility in the department (A)	Excellent(5)	Adequate.	
Facility for co-curricular and extracurricular activities (B)	Good(4)		
Students attending MOOC or other online courses (B)	Excellent(5)	More than 25% students are attending MOOC courses.	

#### **MECHANICAL 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)	Meetings conducted and ATR furnished.	
Advisory meetings and action taken report (B)	Excellent(5)	Meetings conducted and ATR furnished.	
Syllabus coverage as per course plan (B)	Excellent(5)		
Conduct of Tutorial Classes (B)	Good(4)	Tutorial hours may be marked in the timetable. A separate tutorial register may be maintained in the department.	
Evaluation of Answer Scripts (A):	Excellent(5)		
Conduct of practical courses (B)	Good(4)	4 to 5 experiments are completed.	
Evaluation of students performance in practical classes (A):	Excellent(5)	Continuous evaluation is being done.	

Facility to do experiments in the lab (A)	Excellent(5)	Adequate.	
Conduct of remedial/minor/honours classes (B)	Good(4)	Remedial classes may be conducted immediately after the series tests.	
Maintenance of course diary (A)	Excellent(5)		
Assessment of Outcomes (A)	Excellent(5)		
Faculty evaluation amp remarks of the HoD (A)	Excellent(5)	Evaluation is done. Remarks of HoD obtained and remedial action initiated for those below threshold.	
Conduct of Seminar, Mini project, Project amp Thesis (A)	Excellent(5)		
Computing facility in the department (A)	Excellent(5)	Adequate.	
Facility for co-curricular and extracurricular activities (B)	Good(4)		
Students attending MOOC or other online courses (B)	Excellent(5)		

#### **INSTRUMENTATION AND CONTROL 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)		
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)	5 experiments completed on an average	

Evaluation of students performance in practical classes (A):	Excellent(5)	Continuous evaluation is being done effectively.	
Facility to do experiments in the lab (A)	Excellent(5)	Adequate.	
Conduct of remedial/minor/honours classes (B)	Excellent(5)		
Maintenance of course diary (A)	Excellent(5)		
Assessment of Outcomes (A)	Excellent(5)		
Faculty evaluation amp remarks of the HoD (A)	Excellent(5)	Evaluation done and remarks from HoD obtained.	
Conduct of Seminar, Mini project, Project amp Thesis (A)	Good(4)	Conducted as per the guidelines from the university	
Computing facility in the department (A)	Excellent(5)	Adequate	
Facility for co-curricular and extracurricular activities (B)	Good(4)		
Students attending MOOC or other online courses (B)	Excellent(5)	More than 25% of the students are attending 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)	Meetings conducted and ATR furnished.	
Advisory meetings and action taken report (B)	Excellent(5)	Meetings conducted and ATR furnished.	
Syllabus coverage as per course plan (B)	Excellent(5)		
Conduct of Tutorial Classes (B)	Excellent(5)		

Evaluation of Answer Scripts (A):	Excellent(5)	Timely evaluation is being done.	
Conduct of practical courses (B)	Good(4)	An average of 4 to 5 experiments are completed.	
Evaluation of students performance in practical classes (A):	Excellent(5)	Continuous evaluation is being done.	
Facility to do experiments in the lab (A)	Good(4)	Adequate. The license of relevant software may be renewed.	
Conduct of remedial/minor/honours classes (B)	Good(4)		
Maintenance of course diary (A)	Excellent(5)		
Assessment of Outcomes (A)	Excellent(5)		
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)	Excellent(5)	Adequate	
Facility for co-curricular and extracurricular activities (B)	Good(4)		
Students attending MOOC or other online courses (B)	Excellent(5)		

### **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)	Meetings conducted and ATR furnished.	
Advisory meetings and action taken report (B)	Excellent(5)	Meetings conducted and ATR furnished.	
Syllabus coverage as per course plan (B)	Excellent(5)		

Conduct of Tutorial Classes (B)	Good(4)	Tutorial hours may be marked in the time table. Tutorial register can be maintained and updated regularly.	
Evaluation of Answer Scripts (A):	Excellent(5)		
Conduct of practical courses (B)	Good(4)	4 to 5 experiments are completed on an average.	
Evaluation of students performance in practical classes (A):	Excellent(5)	Continuous evaluation is being done.	
Facility to do experiments in the lab (A)	Excellent(5)	Adequate	
Conduct of remedial/minor/honours classes (B)	Good(4)		
Maintenance of course diary (A)	Excellent(5)		
Assessment of Outcomes (A)	Excellent(5)		
Faculty evaluation amp remarks of the HoD (A)	Excellent(5)	Faculty evaluation done and remarks from HoD obtained.	
Conduct of Seminar, Mini project, Project amp Thesis (A)	Excellent(5)		
Computing facility in the department (A)	Excellent(5)	Adequate.	
Facility for co-curricular and extracurricular activities (B)	Good(4)		
Students attending MOOC or other online courses (B)	Excellent(5)		

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

<b>Key Aspects</b>	<b>Rating</b>	<b>Auditor Remarks</b>	<b>Principal's Response</b>
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Class/course committee meetings and action taken report (B)	Excellent(5)	Meetings are conducted as per the university schedule and ATR furnished.	
Advisory meetings and action taken report (B)	Excellent(5)	Meetings conducted and minutes maintained. ATR furnished.	
Syllabus coverage as per course plan (B)	Excellent(5)		
Conduct of Tutorial Classes (B)	Good(4)	Tutorial register/ log book can be maintained in the department and regularly updated.	
Evaluation of Answer Scripts (A):	Good(4)	Timely evaluation done.	
Conduct of practical courses (B)	Good(4)	On an average, 50% of the total experiments have been completed.	
Evaluation of students performance in practical classes (A):	Excellent(5)	Continuous evaluation is being done	
Facility to do experiments in the lab (A)	Excellent(5)	Adequate	
Conduct of remedial/minor/honours classes (B)	Good(4)	Registers need to be maintained and updated.	
Maintenance of course diary (A)	Excellent(5)	Properly maintained.	
Assessment of Outcomes (A)	Excellent(5)	Done in accordance with the NBA guidelines	
Faculty evaluation amp remarks of the HoD (A)	Excellent(5)	Faculty evaluation done. Remarks of HoD was shown.	
Conduct of Seminar, Mini project, Project amp Thesis (A)	Excellent(5)	Conducted as per the guidelines from the university.	
Computing facility in the department (A)	Good(4)	Adequate facility. However, there is no licensed software.	

Facility for co-curricular and extracurricular activities (B)	Good(4)	Adequate	
Students attending MOOC or other online courses (B)	Excellent(5)	More than 25% students are attending MOOC courses.	

### M.Tech

<b>No of M.Tech Students</b>	118
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### **ELECTRICAL AND ELECTRONICS ENGINEERING(POWER ELECTRONICS)-(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)	Meetings conducted. Minutes are properly maintained. ATR furnished.	
Syllabus coverage as per course plan (B)	Excellent(5)		
Evaluation of Answer Scripts (A):	Excellent(5)		
Maintenance of course diary (A)	Excellent(5)	Well-maintained.	
Faculty evaluation amp remarks of the HoD (A)	Excellent(5)	Evaluation done and remarks from HoD obtained.	
Facility in the department library for references (C)	Good(4)	Students must be encouraged for effective utilization.	
Conduct of Seminar, Mini project, Project amp Thesis (A)	Excellent(5)	Conducted as per the university norms.	
Faculty with Ph.D for the program (A)	Excellent(5)	10 faculty	
Computing facility in the department (A)	Excellent(5)	Adequate	
Facility for co-curricular and extracurricular activities (B)	Good(4)		

Students attending MOOC or other online courses (B)	Excellent(5)	More than 25% students are attending MOOC courses.	
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#### **ELECTRONICS AND COMMUNICATION ENGINEERING(COMMUNICATION 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)	Meetings conducted and ATR furnished.	
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)	Excellent(5)	Faculty evaluation done and remarks obtained.	
Facility in the department library for references (C)	Good(4)	Students may be encouraged for better utilization.	
Conduct of Seminar, Mini project, Project amp Thesis (A)	Excellent(5)		
Faculty with Ph.D for the program (A)	Excellent(5)	10 faculty	
Computing facility in the department (A)	Good(4)	Few more systems need to be procured.	
Facility for co-curricular and extracurricular activities (B)	Good(4)		
Students attending MOOC or other online courses (B)	Poor(2)	Students may be encouraged to attend MOOC or other online courses.	

#### **INSTRUMENTATION AND CONTROL ENGINEERING(BIOMEDICAL ENGINEERING)-(Full Time)**

<b>Key Aspects</b>	<b>Rating</b>	<b>Auditor Remarks</b>	<b>Principal's Response</b>
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Class/course committee meetings and action taken report (B)	Not Relevant	There is currently no PG program run by the department.	
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(STRUCTURAL 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)	Meetings conducted and ATR furnished.	
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)	Excellent(5)		
Facility in the department library for references (C)	Good(4)	The library has around 2500 books. Students must be encouraged for better utilization.	
Conduct of Seminar, Mini project, Project amp Thesis (A)	Excellent(5)		
Faculty with Ph.D for the program (A)	Excellent(5)	9 faculty	
Computing facility in the department (A)	Good(4)	Adequate	
Facility for co-curricular and extracurricular activities (B)	Good(4)		
Students attending MOOC or other online courses (B)	Excellent(5)	More than 25% students are attending MOOC courses. A separate register is maintained.	

#### **COMPUTER SCIENCE AND ENGINEERING(COMPUTER SCIENCE AND 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)	Meetings are conducted and minutes are properly maintained.	
Syllabus coverage as per course plan (B)	Excellent(5)		
Evaluation of Answer Scripts (A):	Excellent(5)	Timely evaluation done.	
Maintenance of course diary (A)	Excellent(5)		
Faculty evaluation amp remarks of the HoD (A)	Excellent(5)		
Facility in the department library for references (C)	Good(4)	Adequate facility. Students must be encouraged to utilize the facility more effectively.	

Conduct of Seminar, Mini project, Project amp Thesis (A)	Excellent(5)	Being conducted effectively.	
Faculty with Ph.D for the program (A)	Excellent(5)	Four faculty with PhD.	
Computing facility in the department (A)	Good(4)	Adequate facility. However, there is no licensed software.	
Facility for co-curricular and extracurricular activities (B)	Good(4)	Adequate facility but the participation from students is	
Students attending MOOC or other online courses (B)	Excellent(5)	25% students are attending MOOC courses	

### **MECHANICAL ENGINEERING(COMPUTER INTEGRATED MANUFACTURING)-(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)	Meetings conducted and ATR furnished.	
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)	Excellent(5)	Evaluation done and remarks from HoD obtained.	
Facility in the department library for references (C)	Good(4)	Students may be encouraged for effective utilization of the facility.	
Conduct of Seminar, Mini project, Project amp Thesis (A)	Good(4)		
Faculty with Ph.D for the program (A)	Excellent(5)	9 faculty	
Computing facility in the department (A)	Excellent(5)	Adequate	

Facility for co-curricular and extracurricular activities (B)	Good(4)		
Students attending MOOC or other online courses (B)	Excellent(5)		