



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

Academic Audit Report
2022 - 2023

Basic Details

Institution	KMEA ENGINEERING COLLEGE
First Auditor Name	Binu V P
Second Auditor Name	
Visit	First
Semester Type	Even

College Specific Assessments

Key Aspects	Rating	Auditor Remarks	Principal's Response
Compliance to the Academic Calendar of KTU (A)	Good(4)	Yes.Following the calendar	
Functioning of students grievances and appeal committee (A)	Good(4)	have to follow the new university rules	took measures to follow the new university rules.
Functioning of Academic Discipline Welfare committee (A)	Good(4)	have to follow the new university rules	took measures to follow the new university rules.
Average student to faculty ratio (A)	Excellent(5)	1.16	
Faculty Retention (A)	Poor(2)	0.66	In 21-22 ,%of faculty retained is 88.39.In 22-23, it is 65.96. Hence average retention % is 77.77
Faculty Qualification Index (A)	Good(4)	6.84	
Number of qualified technical staff (A)	Fair(3)	23	

Facility of central library with respect to volume and title of books, online print journals (A)	Good(4)	28600 volume 5533 titles 81 journals online/print	
Functioning of IQAC and Progress of IQAC report uploading (A)	Good(4)	IQAC is functioning well. SAR uploaded waiting for NBA visit in five departments	
Institution Budget (A)	Good(4)	7.8 crore	
Details of central computing facility (A)	Good(4)	135 systems	
Principals response on previous audit reports (A)	Good(4)	good	

Student Interaction

Key Aspects	Rating	Auditor Remarks	Principal's Response
Syllabus coverage (B)	Good(4)	students are happy with the teaching learning process.	
Lab Facility and conduct of Labs (B)	Excellent(5)	lab infrastructure facilities are good.	
Co-curricular facility (B)	Good(4)	participation of events outside the campus must be promoted	will take measure to promote outside campus events
Extra-curricular facility (B)	Good(4)	sports and games are going well including the university representation. Socially relevant activities can also be taken up.	
Transferring all intimation from University in time (B)	Fair(3)	needs to improve the college level mechanism to communicate the university information to students.	All informations are read in classrooms to parents and students group
Approach of the management in addressing student grievance (B)	Fair(3)	have to comply with the new rules imposed soon from the next academic year.	
Availability of Faculty for all subjects (A)	Good(4)	all subjects are taught properly	
Any other remarks (C)	Good(4)	students put forward a concern regarding the hostel timings.	
Extra fees/fine imposed on students (B)	Good(4)	no	

B.Tech

No of B.Tech Students	785
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ELECTRICAL AND ELECTRONICS ENGINEERING-(Full Time)

Key Aspects	Rating	Auditor Remarks	Principal's Response
Placement Status	Fair(3)	proof collection to be completed	Placement details are updated properly

Class/course committee meetings and action taken report (B)	Good(4)	shown	
Advisory meetings and action taken report (B)	Good(4)	shown	
Syllabus coverage as per course plan (B)	Good(4)	Verified the details	
Conduct of Tutorial Classes (B)	Good(4)	verified	
Evaluation of Answer Scripts (A):	Good(4)	Marks entered	
Conduct of practical courses (B)	Good(4)	verified	
Evaluation of students performance in practical classes (A):	Good(4)	verified	
Facility to do experiments in the lab (A)	Good(4)	available	
Conduct of remedial/minor/honours classes (B)	Good(4)	records verified	
Maintenance of course diary (A)	Good(4)	verified	
Assessment of Outcomes (A)	Good(4)	shown	
Faculty evaluation amp remarks of the HoD (A)	Good(4)	done	
Conduct of Seminar, Project and Thesis (A)	Good(4)	verified	
Computing facility in the department (A)	Good(4)	available	
Facility for co-curricular and extracurricular activities (B)	Fair(3)	more programs may be planned	will take measures to conduct more programs
Students attending MOOC or other online courses (B)	Fair(3)	to improve	The matter is being taken seriously for improvement
Maintenance of A1, A2 and A3 files.	Good(4)	OK	

Maintenance of B files.	Fair(3)	documentation to be improved	Documentation is carried out properly
Maintenance of C and D files.	Fair(3)	more documentation expected	will improve documentation

CIVIL ENGINEERING-(Full Time)

Key Aspects	Rating	Auditor Remarks	Principal's Response
Placement Status	Fair(3)	Internship opportunities and students participation in various competitions/hackathons. Plan Soft Skill /Technical/coding skill development programs.	Students are encouraged to do internship and to participate in various competitions. Introduced skill development programmes
Class/course committee meetings and action taken report (B)	Good(4)	List out the action plan and person responsible.Action taken report must be prepared on this.	List of action plan and action taken report added in the register
Advisory meetings and action taken report (B)	Good(4)	List out action plan and action taken	Action taken report added in the register
Syllabus coverage as per course plan (B)	Good(4)	syllabus covered in time	
Conduct of Tutorial Classes (B)	Good(4)	utorial plan must be prepared covering questions from previous year question papers and also GATE questions.	Tutorial classes were conducted by answering the previous year university question papers
Evaluation of Answer Scripts (A):	Good(4)	answer key must be prepared and communicate the same to students also.	answer key prepared and circulated
Conduct of practical courses (B)	Good(4)	over the all the major experiments mentioned in syllabus. Daily evaluation must be done.	All the experiments mentioned in the syllabus are conducted in lab
Evaluation of students performance in practical classes (A):	Good(4)	encourage daily evaluation and report writing in each lab.	observation record are being corrected on the same day itself.
Facility to do experiments in the lab (A)	Excellent(5)	good	

Conduct of remedial/minor/honours classes (B)	Good(4)	Seminar Details can be published in college notice board and various forums	Encouraged more students to do minor and honour courses.
Maintenance of course diary (A)	Excellent(5)	software is good. Some changes are suggested.	
Assessment of Outcomes (A)	Excellent(5)	good	
Faculty evaluation and remarks of the HoD (A)	Good(4)	5 point evaluation is done	
Conduct of Seminar, Project and Thesis (A)	Good(4)	good	
Computing facility in the department (A)	Good(4)	good	
Facility for co-curricular and extracurricular activities (B)	Good(4)	encourage students to participate in national level competitions. Encourage internship and Entrepreneurship	Encouraging students to participate in competitions, internship and entrepreneurship.
Students attending MOOC or other online courses (B)	Good(4)	encourage students to take MOOC for minor/honors. Faculty mentors can also suggest online courses based on students interest.	Mentors suggested some MOOC courses to students and some of them completed the course
Maintenance of A1, A2 and A3 files.	Excellent(5)	well maintained	
Maintenance of B files.	Good(4)	good	
Maintenance of C and D files.	Excellent(5)	well maintained	

MECHANICAL ENGINEERING-(Full Time)

Key Aspects	Rating	Auditor Remarks	Principal's Response
Placement Status	Fair(3)	needs improvement. students must be given orientation	steps taken to provide more placement orientations for students skill development
Class/course committee meetings and action taken report (B)	Good(4)	good	Action taken entered in the register

Advisory meetings and action taken report (B)	Good(4)	well maintained	
Syllabus coverage as per course plan (B)	Excellent(5)	done	
Conduct of Tutorial Classes (B)	Good(4)	concentrate on previous year question papers and GATE questions	Remedial classes were conducted focusing on the previous questionpaper
Evaluation of Answer Scripts (A):	Good(4)	answr key must be published	Answer key prepared and published
Conduct of practical courses (B)	Excellent(5)	doing well	
Evaluation of students performance in practical classes (A):	Good(4)	daily evaluation must be done	Doing daily evaluation
Facility to do experiments in the lab (A)	Excellent(5)	excelent facilities	
Conduct of remedial/minor/honours classes (B)	Good(4)	encourage more students	Measures are taken to encourage more students to do honour and minor courses
Maintenance of course diary (A)	Excellent(5)	well maintained	
Assessment of Outcomes (A)	Excellent(5)	done using the software	
Faculty evaluation amp remarks of the HoD (A)	Good(4)	action plan for improvement must be formulated	Prepared and documented.
Conduct of Seminar, Project and Thesis (A)	Good(4)	details must be made available to all	Seminar and project presentation schedule published in the department and is already forwarded to students.
Computing facility in the department (A)	Good(4)	additional skills training program can be planned	additional training session planned
Facility for co-curricular and extracurricular activities (B)	Good(4)	state and national level must be encouraged	Improving the quality of final year projects so that the students can participate in competitions

Students attending MOOC or other online courses (B)	Good(4)	encourage minor/honors students to take MOOC course. direction in the regard can be given from first year.	Students are being encouraged to do MOOC courses
Maintenance of A1, A2 and A3 files.	Excellent(5)	well maintained	
Maintenance of B files.	Excellent(5)	well maintained	
Maintenance of C and D files.	Excellent(5)	well maintained	

ELECTRONICS & COMMUNICATION ENGG-(Full Time)

Key Aspects	Rating	Auditor Remarks	Principal's Response
Placement Status	Good(4)	Records verified but still to collect the data	Collected all the relevant data
Class/course committee meetings and action taken report (B)	Excellent(5)	verified	
Advisory meetings and action taken report (B)	Excellent(5)	verified	
Syllabus coverage as per course plan (B)	Excellent(5)	verified	
Conduct of Tutorial Classes (B)	Good(4)	good	
Evaluation of Answer Scripts (A):	Excellent(5)	available	
Conduct of practical courses (B)	Excellent(5)	available	
Evaluation of students performance in practical classes (A):	Excellent(5)	verified	
Facility to do experiments in the lab (A)	Excellent(5)	Available	
Conduct of remedial/minor/honours classes (B)	Good(4)	verified & more students to do honours and minor	Measures taken to encourage more students to do honour and minor courses.

Maintenance of course diary (A)	Good(4)	OK	
Assessment of Outcomes (A)	Good(4)	OK	
Faculty evaluation amp remarks of the HoD (A)	Good(4)	verified	
Conduct of Seminar, Project and Thesis (A)	Good(4)	verified	
Computing facility in the department (A)	Good(4)	available	
Facility for co-curricular and extracurricular activities (B)	Good(4)	Still to improve	Encouraged students to participate in co curricular and extra curricular activities.
Students attending MOOC or other online courses (B)	Good(4)	OK	
Maintenance of A1, A2 and A3 files.	Good(4)	Ojk	
Maintenance of B files.	Good(4)	Ok	
Maintenance of C and D files.	Good(4)	Ok	

COMPUTER SCIENCE & ENGINEERING-(Full Time)

Key Aspects	Rating	Auditor Remarks	Principal's Response
Placement Status	Fair(3)	Internship opportunities and students participation in various competitions/hackathons. Plan Soft Skill /Technical/coding skill development programs.	More than 80% of our final year students are fit to be placed in reputed industries. Measures are being taken to invite renowned firms to conduct placement drives
Class/course committee meetings and action taken report (B)	Good(4)	List out the action plan and person responsible.Action taken report must be prepared on this.	
Advisory meetings and action taken report (B)	Good(4)	List out action plan and action taken	

Syllabus coverage as per course plan (B)	Excellent(5)	syllabus covered in time	
Conduct of Tutorial Classes (B)	Good(4)	Tutorial plan must be prepared covering questions from previous year question papers and also GATE questions.	
Evaluation of Answer Scripts (A):	Good(4)	answer key must be prepared and communicate the same to students also.	This scheme is followed by the college. Measures are taken for preparing answer key.
Conduct of practical courses (B)	Good(4)	cover the all the major experiments mentioned in syllabus.	All experiments are covered
Evaluation of students performance in practical classes (A):	Good(4)	encourage daily evaluation and report writing in each lab.	Continuation evaluation is already followed in the college
Facility to do experiments in the lab (A)	Excellent(5)	good	
Conduct of remedial/minor/honours classes (B)	Good(4)	encourage more number of students for honors and minor course	
Maintenance of course diary (A)	Excellent(5)	software is good. Some changes are suggested.	
Assessment of Outcomes (A)	Good(4)	good	
Faculty evaluation amp remarks of the HoD (A)	Good(4)	good	
Conduct of Seminar, Project and Thesis (A)	Good(4)	Seminar Details can be published in college notice board and various forums	
Computing facility in the department (A)	Excellent(5)	good	
Facility for co-curricular and extracurricular activities (B)	Good(4)	encourage students to participate in national level competitions. Encourage internship and Entrepreneurship	Will promote students to participate

Students attending MOOC or other online courses (B)	Good(4)	encourage students to take MOOC for minor/honors. Faculty mentors can also suggest online courses based on students interest.	
Maintenance of A1, A2 and A3 files.	Excellent(5)	well maintained	
Maintenance of B files.	Excellent(5)	well maintained	
Maintenance of C and D files.	Excellent(5)	well maintained	

ELECTRONICS & INSTRUMENTATION ENGINEERING-(Full Time)

Key Aspects	Rating	Auditor Remarks	Principal's Response
Placement Status	Fair(3)	Records to be properly maintained	Placement details are updated properly
Class/course committee meetings and action taken report (B)	Fair(3)	Action taken report to be entered	The report has already been entered on time.
Advisory meetings and action taken report (B)	Fair(3)	Action taken report to be entered	
Syllabus coverage as per course plan (B)	Good(4)	shown	
Conduct of Tutorial Classes (B)	Fair(3)	not recorded	Records are available and maintained properly
Evaluation of Answer Scripts (A):	Good(4)	marks entered	
Conduct of practical courses (B)	Good(4)	Verified records of students	
Evaluation of students performance in practical classes (A):	Good(4)	verified	
Facility to do experiments in the lab (A)	Good(4)	available	
Conduct of remedial/minor/honours classes (B)	Fair(3)	Remedial registers were not completed	Remedial registers are completed
Maintenance of course diary (A)	Fair(3)	To be improved	Suggestions will be followed

Assessment of Outcomes (A)	Fair(3)	To be improved	Will be improved
Faculty evaluation amp remarks of the HoD (A)	Good(4)	done	
Conduct of Seminar, Project and Thesis (A)	Good(4)	verified	
Computing facility in the department (A)	Good(4)	available	
Facility for co-curricular and extracurricular activities (B)	Fair(3)	yet to improve	Will be improved
Students attending MOOC or other online courses (B)	Good(4)	more students to be encouraged in miminor&honours	
Maintenance of A1, A2 and A3 files.	Fair(3)	Yet to improve	Will be improved
Maintenance of B files.	Fair(3)	Yet to improve	Will be improved
Maintenance of C and D files.	Fair(3)	Yet to improve	Will be improved

M.Tech

No of M.Tech Students	17
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ELECTRICAL AND ELECTRONICS ENGINEERING(POWER ELECTRONICS)-(Full Time)

Key Aspects	Rating	Auditor Remarks	Principal's Response
Placement Status	Good(4)	needs improvement	Being improved
Class/course committee meetings and action taken report (B)	Good(4)	good	
Syllabus coverage as per course plan (B)	Good(4)	done	
Evaluation of Answer Scripts (A):	Good(4)	done	
Maintenance of course diary (A)	Good(4)	well maintained	
Faculty evaluation amp remarks of the HoD (A)	Good(4)	done	

Facility in the department library for references (C)	Fair(3)	needs improvement	Library books for M.Tech being purchased
Conduct of Seminar, Project and Thesis (A)	Good(4)	good	
Faculty with Ph.D for the program (A)	Fair(3)	needs improvement	PhD in Power electronics to be appointed
Computing facility in the department (A)	Good(4)	advanced computing facility is required	
Facility for co-curricular and extracurricular activities (B)	Good(4)	good	
Students attending MOOC or other online courses (B)	Good(4)	additional certification courses can be planned	

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

Key Aspects	Rating	Auditor Remarks	Principal's Response
Placement Status	Good(4)	on campus placement and internship opportunities must be improved	Conducted placement training. Will take measure to improve more opportunities
Class/course committee meetings and action taken report (B)	Good(4)	done	
Syllabus coverage as per course plan (B)	Good(4)	done	
Evaluation of Answer Scripts (A):	Good(4)	done	
Maintenance of course diary (A)	Excellent(5)	software is used. well maintained	
Faculty evaluation amp remarks of the HoD (A)	Good(4)	good	
Facility in the department library for references (C)	Good(4)	needs improvement	
Conduct of Seminar, Project and Thesis (A)	Good(4)	good	
Faculty with Ph.D for the program (A)	Good(4)	needs improvement considering the new programs in the department	appointed faculty with phd qualification

Computing facility in the department (A)	Good(4)	advanced computing facility must be added	
Facility for co-curricular and extracurricular activities (B)	Good(4)	good	
Students attending MOOC or other online courses (B)	Good(4)	encourage certification courses	

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

Key Aspects	Rating	Auditor Remarks	Principal's Response
Placement Status	Good(4)	on campus placement and internship opportunities must be improved	Placement training session held. Improved placement and internship status
Class/course committee meetings and action taken report (B)	Good(4)	done	
Syllabus coverage as per course plan (B)	Good(4)	done	
Evaluation of Answer Scripts (A):	Good(4)	done	
Maintenance of course diary (A)	Excellent(5)	well maintained	
Faculty evaluation amp remarks of the HoD (A)	Good(4)	done	
Facility in the department library for references (C)	Good(4)	needs improvement	Measures are being taken to purchase more journals and improve the library facility
Conduct of Seminar, Project and Thesis (A)	Good(4)	good	
Faculty with Ph.D for the program (A)	Good(4)	needs improvement	Faculty with PhD - 2, Faculty pursuing Ph D - 5
Computing facility in the department (A)	Good(4)	advanced computing facilities can be added	New systems purchased in research systems lab
Facility for co-curricular and extracurricular activities (B)	Good(4)	good	
Students attending MOOC or other online courses (B)	Good(4)	encourage skill based courses	Majority of students joined for NPTEL courses

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

Key Aspects	Rating	Auditor Remarks	Principal's Response
Placement Status	Fair(3)	needs improvement	Conducted placement training. Improved placement.
Class/course committee meetings and action taken report (B)	Good(4)	maintained well	
Syllabus coverage as per course plan (B)	Good(4)	done	
Evaluation of Answer Scripts (A):	Good(4)	done	
Maintenance of course diary (A)	Good(4)	software is used	
Faculty evaluation amp remarks of the HoD (A)	Good(4)	good	
Facility in the department library for references (C)	Fair(3)	needs improvement	More books added in the library
Conduct of Seminar, Project and Thesis (A)	Good(4)	good	
Faculty with Ph.D for the program (A)	Good(4)	needs improvement	Recruitment of PhD holders in progress. 3 faculty pursuing PhD
Computing facility in the department (A)	Good(4)	advanced computing facilities can be provided	New software purchase in progress
Facility for co-curricular and extracurricular activities (B)	Good(4)	good	
Students attending MOOC or other online courses (B)	Good(4)	encourage certification courses	All the students enrolled for MOOC courses