



## Yearly Status Report - 2016-2017

### Part A

#### Data of the Institution

<b>1. Name of the Institution</b>		JYOTHI ENGINEERING COLLEGE
Name of the head of the Institution		Fr. Dr. Jaison Paul Mulerikkal CMI
Designation		Principal
Does the Institution function from own campus		Yes
Phone no/Alternate Phone no.		04884259000
Mobile no.		7561888936
Registered Email		info@jecc.ac.in
Alternate Email		iqac@jecc.ac.in
Address		JYOTHI HILLS, CHERUTHURUTHY
City/Town		THRISSUR
State/UT		Kerala
Pincode		679531
<b>2. Institutional Status</b>		

Affiliated / Constituent	Affiliated
Type of Institution	Co-education
Location	Rural
Financial Status	private
Name of the IQAC co-ordinator/Director	Dr. Vinith R
Phone no/Alternate Phone no.	04884259000
Mobile no.	9061406729
Registered Email	iqac@jecc.ac.in
Alternate Email	info@jecc.ac.in

### 3. Website Address

Web-link of the AQAR: (Previous Academic Year)	<a href="http://www.jecc.ac.in/iqac/aqar">http://www.jecc.ac.in/iqac/aqar</a>
<b>4. Whether Academic Calendar prepared during the year</b>	Yes
if yes,whether it is uploaded in the institutional website: Weblink :	<a href="http://www.jecc.ac.in/iqac/academiccalendar16-17">http://www.jecc.ac.in/iqac/academiccalendar16-17</a>

### 5. Accreditation Details

Cycle	Grade	CGPA	Year of Accreditation	Validity	
				Period From	Period To
1	B+	2.54	2016	16-Sep-2016	15-Sep-2021

<b>6. Date of Establishment of IQAC</b>	10-Oct-2016
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### 7. Internal Quality Assurance System

Quality initiatives by IQAC during the year for promoting quality culture		
Item /Title of the quality initiative by IQAC	Date & Duration	Number of participants/ beneficiaries
IQAC meeting	12-Oct-2016 1	5
IQAC meeting	08-Dec-2016 1	5

IQAC meeting	15-Feb-2017 1	5
IQAC meeting	04-Apr-2017 1	5
One day orientation and training programme	22-Oct-2016 1	32
FDP on Design Thinking	30-Jan-2017 2	50
Five Day STTP on research methodology	11-Jan-2017 5	25
<a href="#">View File</a>		

**8. Provide the list of funds by Central/ State Government- UGC/CSIR/DST/DBT/ICMR/TEQIP/World Bank/CPE of UGC etc.**

Institution/Department/Faculty	Scheme	Funding Agency	Year of award with duration	Amount
Mr Jinesh K J	Innovate 2017	KSCSTE	2016 365	5000
Ms Sobha Xavier	Innovate 2017	KSCSTE	2016 365	10000
Mr Sooraj Krishnan	Manorama yuva mastermind	Manorama	2016 90	10000
Dr. Anitha Jacob	Engineering and Technology Program	KSCSTE	2016 730	127000
Student's Projects	Manorama yuva mastermind	Manorama	2016 90	15000
Projects sponsored by University	CERD-KTU	KTU	2016 365	25000
Mr Abin Roy	Innovate 2017	KSCSTE	2016 365	10000
<a href="#">View File</a>				

**9. Whether composition of IQAC as per latest NAAC guidelines:**

Yes

Upload latest notification of formation of IQAC

[View File](#)

**10. Number of IQAC meetings held during the year :**

4

The minutes of IQAC meeting and compliances to the decisions have been uploaded on the institutional website

No

Upload the minutes of meeting and action taken report	No Files Uploaded !!!														
11. Whether IQAC received funding from any of the funding agency to support its activities during the year?	No														
12. Significant contributions made by IQAC during the current year(maximum five bullets)															
<ul style="list-style-type: none"> <li>• The IQAC along with senior academic team periodically review the internal evaluation system to encourage analytical thinking and creativity among students.</li> <li>• Systematic and periodic review of the teachinglearning process at the end of every semester</li> <li>• Inviting and incorporating feedback from students on teaching and learning process.</li> <li>• Proposed to start a learning material repository</li> </ul>															
No Files Uploaded !!!															
13. Plan of action chalked out by the IQAC in the beginning of the academic year towards Quality Enhancement and outcome achieved by the end of the academic year															
<table border="1"> <thead> <tr> <th>Plan of Action</th> <th>Achivements/Outcomes</th> </tr> </thead> <tbody> <tr> <td>Prepare the AQAR for the year 201617</td> <td>First draft of the report is ready</td> </tr> <tr> <td>Proposed to start a learning material repository</td> <td>The first set has already been prepared and is integrated with the Campus Book for easy dissemination of the study material.</td> </tr> <tr> <td>It is proposed to go for National Board of Accreditation for the Civil Engineering branch.</td> <td>Documentation for the process has been inititated.</td> </tr> <tr> <td>Publication in Journals are to be improved</td> <td>More faculty members have completed their Ph.D. degrees. Number of articles published also is showing an uptrend.</td> </tr> <tr> <td>Improve research activities</td> <td>Identified research strength of each department</td> </tr> <tr> <td colspan="2" style="text-align: center;"><a href="#">View File</a></td> </tr> </tbody> </table>		Plan of Action	Achivements/Outcomes	Prepare the AQAR for the year 201617	First draft of the report is ready	Proposed to start a learning material repository	The first set has already been prepared and is integrated with the Campus Book for easy dissemination of the study material.	It is proposed to go for National Board of Accreditation for the Civil Engineering branch.	Documentation for the process has been inititated.	Publication in Journals are to be improved	More faculty members have completed their Ph.D. degrees. Number of articles published also is showing an uptrend.	Improve research activities	Identified research strength of each department	<a href="#">View File</a>	
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14. Whether AQAR was placed before statutory body ?	Yes														
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Academic Council	17-Dec-2019														
15. Whether NAAC/or any other accredited body(s) visited IQAC or interacted with it to assess the functioning ?	No														
16. Whether institutional data submitted to AISHE:	Yes														

Year of Submission	2012
Date of Submission	24-Oct-2012
<b>17. Does the Institution have Management Information System ?</b>	Yes
If yes, give a brief description and a list of modules currently operational (maximum 500 words)	<ul style="list-style-type: none"> <li>• The college has a comprehensive and well integrated Management Information System, the Campus BookAn Enterprise Resource Planning (ERP) software, which is developed and maintained by the faculty and the IT division of the college. Campus Book is a web application running on PHP MySQL and has several features that are useful to the management and the teachers. The Campus Book maintains the records of student's personal information, academic history, the attendance, and the marks. Various reports can be generated based on the needs of the concerned teaching staff. Entire official and nonofficial correspondence are available through Campus Book promoting an ecofriendly campus</li> <li>• Staff related data including personal information, areas of interest, subjects handled, research activities and several other academic activities related information are accessible through the software. A skill inventory is maintained so that the right people for a task can be selected from a pool of faculty members or other staff with skills that are required for the job.</li> <li>• Students are given individual login to access the learning material repository and also view their attendance reports and internal marks. They get updated with latest notices through this software. Application for sanction of various internships is done through their logins.</li> <li>• A comprehensive learning material repository is accessible through the Campus Book software. University question papers of previous years along with the suggested answers are available through the Campus Book to guide the students in their preparation. Information such as the schedule of remedial classes, summer courses, placement activities, summer projects, internships, funded projects are disseminated through the software. The Calendar shows the</li> </ul>

detailed list of activities scheduled for a month. It also includes facilities for generating summary reports for HODs and the Principal. • Enquiry of availability of the main library books is through OPAC which is linked to Campus Book software. The software also provides access to facilities in main library (EBooks, University question papers, NPTEL Videos etc). A well established digital library is set up to access online journals and to do MOOC courses. • The software also links to an appropriate repository from where the bookings for rooms, seminar halls and other physical infrastructural facilities can be accessed. It also provides the convenience of informing the needy of the available free slots. • There are several other software for the proper functioning of the institution. The admission software (JAS) takes care of the complete admission process from registration to allotment of management seats. The Account keeping Software is used for the accounting purposes in the Institution. The inventory for the Institution store is maintained through a separate software.

## Part B

### CRITERION I – CURRICULAR ASPECTS

#### 1.1 – Curriculum Planning and Implementation

1.1.1 – Institution has the mechanism for well planned curriculum delivery and documentation. Explain in 500 words

The college follows a curriculum prepared by the university. The APJ Abdul Kalam Technological University to which the college is affiliated practises significant degree of decentralization and its academic administration is organised in the form of clusters and the college is under the Palakkad cluster of KTU. Each cluster has significant autonomy in designing and developing curriculum subject to the approval by the KTU central academic committee. The university, typically at the end of every academic year requests the teachers in the affiliated colleges for feedback on the existing courses and the need for revision as well as the introduction of new courses. The faculty of the college actively participates in this activity by suggesting modifications in the existing courses and by preparing syllabus for new courses. The purpose of this revision is to enhance the employment potential of the graduates and takes into account the feedback from the industry. The faculty members in the institution is encouraged to identify the gaps in the syllabi and these additional components offered in the course beyond what is prescribed in the curriculum goes a long way in enhancing the employability of the graduates. Teaching and learning process have enhanced by various Faculty Development Programs on recent updates in technology conducted by eminent experts from academic and industry. Add-on courses and invited talks help the students to

meet experts in a specific area. Through NPTEL videos , MOOC courses and webinars students get a sound information about the recent activities in the world and can improve their skills.

#### 1.1.2 – Certificate/ Diploma Courses introduced during the academic year

Certificate	Diploma Courses	Dates of Introduction	Duration	Focus on employ ability/entrepreneurship	Skill Development
NA	NA	15/06/2016	0	NA	NA

### 1.2 – Academic Flexibility

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

Programme/Course	Programme Specialization	Dates of Introduction
BTech	NA	16/06/2016
No file uploaded.		

#### 1.2.2 – Programmes in which Choice Based Credit System (CBCS)/Elective course system implemented at the affiliated Colleges (if applicable) during the academic year.

Name of programmes adopting CBCS	Programme Specialization	Date of implementation of CBCS/Elective Course System
BTech	NA	15/06/2016

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

	Certificate	Diploma Course
Number of Students	Nil	Nil

### 1.3 – Curriculum Enrichment

#### 1.3.1 – Value-added courses imparting transferable and life skills offered during the year

Value Added Courses	Date of Introduction	Number of Students Enrolled
Seminar on Self Reliant Entrepreneurs	25/06/2016	15
<a href="#">View File</a>		

#### 1.3.2 – Field Projects / Internships under taken during the year

Project/Programme Title	Programme Specialization	No. of students enrolled for Field Projects / Internships
BTech	CE	39
<a href="#">View File</a>		

### 1.4 – Feedback System

#### 1.4.1 – Whether structured feedback received from all the stakeholders.

Students	Yes
Teachers	No
Employers	Yes
Alumni	Yes
Parents	Yes

#### 1.4.2 – How the feedback obtained is being analyzed and utilized for overall development of the institution? (maximum 500 words)

## Feedback Obtained

Evaluation of the teachers by the students is being done using online student feedback twice in a semester. The students are asked to give unbiased and honest feedback. The process is transparent and does not disclose student identity. The students evaluate the teachers in the following context:

- Engage lectures regularly on time
- Overall appearance and personal Communication Skills
- Explanation
- Use of supplementary methods
- Readiness to address student doubts
- Availability
- Use of black board
- Relationship with students

After collecting the online feedback from the students, the evaluation of the teacher is done by Quality Improvement Cell and teachers are evaluated based on the overall performance in the following categories: Evaluation Grade Grade points

Excellent A 5 Very Good B 4 Good C 3 Fair D 2 Satisfactory E 1

- The complete report of all the Departments reaches Principal and the report of respective department is submitted to their respective Head of Department. The teachers with other grades introspect themselves and improve in the concerned areas.
- A class committee meeting is conducted twice during each semester including the Head of Department, 6 students representing the class and the concerned faculties on each subject. The students and the faculties can raise their concern on various issues related to academic and general matters.
- Verbal feedback is collected from the students during lectures and practical hours and the same is discussed with concerned head and necessary corrective action is initiated. Head of Department discusses the feedback with the concerned faculty for improvement

## CRITERION II – TEACHING- LEARNING AND EVALUATION

### 2.1 – Student Enrolment and Profile

#### 2.1.1 – Demand Ratio during the year

Name of the Programme	Programme Specialization	Number of seats available	Number of Application received	Students Enrolled
BTech	Civil Engineering	63	465	63

[View File](#)

### 2.2 – Catering to Student Diversity

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

Year	Number of students enrolled in the institution (UG)	Number of students enrolled in the institution (PG)	Number of fulltime teachers available in the institution teaching only UG courses	Number of fulltime teachers available in the institution teaching only PG courses	Number of teachers teaching both UG and PG courses
2016	1843	35	115	1	8

### 2.3 – Teaching - Learning Process

#### 2.3.1 – Percentage of teachers using ICT for effective teaching with Learning Management Systems (LMS), E-learning resources etc. (current year data)

Number of Teachers on Roll	Number of teachers using ICT (LMS, e-Resources)	ICT Tools and resources available	Number of ICT enabled Classrooms	Number of smart classrooms	E-resources and techniques used
124	124	6	32	32	5

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### 2.3.2 – Students mentoring system available in the institution? Give details. (maximum 500 words)

A well defined mentoring system exists in the departments. Mentoring is done by tutor after each sessional exam. Each tutor is allotted around thirty students. Academically weak students are counselled by their mentor. They are counselled to improve their academic performance by modifying their study habits after taking in to consideration their performance in the tests. Remedial classes are arranged for the students those who need to be monitored efficiently. The academically bright students are motivated to do exceptionally well in the university exams. Each department has counselling room for mentoring purpose.

Number of students enrolled in the institution	Number of fulltime teachers	Mentor : Mentee Ratio
1843	124	1:15

## 2.4 – Teacher Profile and Quality

### 2.4.1 – Number of full time teachers appointed during the year

No. of sanctioned positions	No. of filled positions	Vacant positions	Positions filled during the current year	No. of faculty with Ph.D
149	135	14	9	11

### 2.4.2 – Honours and recognition received by teachers (received awards, recognition, fellowships at State, National, International level from Government, recognised bodies during the year )

Year of Award	Name of full time teachers receiving awards from state level, national level, international level	Designation	Name of the award, fellowship, received from Government or recognized bodies
2016	NA	Lecturer	NA

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## 2.5 – Evaluation Process and Reforms

### 2.5.1 – Number of days from the date of semester-end/ year- end examination till the declaration of results during the year

Programme Name	Programme Code	Semester/ year	Last date of the last semester-end/ year-end examination	Date of declaration of results of semester-end/ year- end examination
BTech	UG	S1/S3/S5/S7	15/12/2016	31/01/2017

[View File](#)

### 2.5.2 – Reforms initiated on Continuous Internal Evaluation(CIE) system at the institutional level (250 words)

In each semester two internal tests and a model exam have been conducted. Model exams are conducted to make the students ready to face the end semester exams. Also, continuous evaluation of students for each subject is done by respective faculty through assignments, seminars, etc. A separate Examination cell is constituted for the smooth conduct of the internal exams. End semester examination has been conducted by the respected universities (Calicut and KTU) during the two time periods one in April to May and the other in November to December.

### 2.5.3 – Academic calendar prepared and adhered for conduct of Examination and other related matters (250 words)

The Academic Calendar shows the detailed list of activities scheduled for a semester. College level Academic calendar contains common event schedules . Each department prepares department level calendars which are specific to

department events. Information such as the schedule of assignments, internal examinations, submission of project reports, remedial classes etc. will be included in the academic course calendar. IQAC conducts Internal audits to monitor the same.

## 2.6 – Student Performance and Learning Outcomes

2.6.1 – Program outcomes, program specific outcomes and course outcomes for all programs offered by the institution are stated and displayed in website of the institution (to provide the weblink)

[https://www.jecc.ac.in/departments/civil\\_engineering](https://www.jecc.ac.in/departments/civil_engineering)

2.6.2 – Pass percentage of students

Programme Code	Programme Name	Programme Specialization	Number of students appeared in the final year examination	Number of students passed in final year examination	Pass Percentage
CE	BTech	Civil Engineering	65	52	80
<a href="#">View File</a>					

## 2.7 – Student Satisfaction Survey

2.7.1 – Student Satisfaction Survey (SSS) on overall institutional performance (Institution may design the questionnaire) (results and details be provided as weblink)

[https://www.jecc.ac.in/campusbook/college\\_feedbacks/view](https://www.jecc.ac.in/campusbook/college_feedbacks/view)

## CRITERION III – RESEARCH, INNOVATIONS AND EXTENSION

### 3.1 – Resource Mobilization for Research

3.1.1 – Research funds sanctioned and received from various agencies, industry and other organisations

Nature of the Project	Duration	Name of the funding agency	Total grant sanctioned	Amount received during the year
Any Other (Specify)	0	NA	0	0
No file uploaded.				

### 3.2 – Innovation Ecosystem

3.2.1 – Workshops/Seminars Conducted on Intellectual Property Rights (IPR) and Industry-Academia Innovative practices during the year

Title of workshop/seminar	Name of the Dept.	Date
FDP on Performance based work ethic	Computer Science Engineering	13/06/2016
FDP on how to write a research paper	Computer Science Engineering	10/11/2016
Research Methodology (STTP)	Computer Science Engineering	11/01/2017
Short Term Training Program On Research Methodology	Electrical Electronics Engineering	11/01/2017

3.2.2 – Awards for Innovation won by Institution/Teachers/Research scholars/Students during the year

Title of the innovation	Name of Awardee	Awarding Agency	Date of award	Category
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Blind Navigation system	Vishnu K, Noel Vincent , Surya	ibeto (Innovations of better Tomorrow) at KSUM Kalamassery	17/04/2017	Project
<a href="#">View File</a>				

3.2.3 – No. of Incubation centre created, start-ups incubated on campus during the year

Incubation Center	Name	Sponsored By	Name of the Start-up	Nature of Start-up	Date of Commencement
<b>No Data Entered/Not Applicable !!!</b>					
No file uploaded.					

### 3.3 – Research Publications and Awards

3.3.1 – Incentive to the teachers who receive recognition/awards

State	National	International
0	0	0

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

Name of the Department	Number of PhD's Awarded
NA	Null

3.3.3 – Research Publications in the Journals notified on UGC website during the year

Type	Department	Number of Publication	Average Impact Factor (if any)
International	CSE	33	1.5
<a href="#">View File</a>			

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

Department	Number of Publication
Civil Engineering	12
No file uploaded.	

3.3.5 – Bibliometrics of the publications during the last Academic year based on average citation index in Scopus/ Web of Science or PubMed/ Indian Citation Index

Title of the Paper	Name of Author	Title of journal	Year of publication	Citation Index	Institutional affiliation as mentioned in the publication	Number of citations excluding self citation
Design Consistency Evaluation For Two-Lane Rural Roads: A Case Study From Kerala	Jisha Akkar	4th Conference On Transportation Systems Engineering And Management	2017	1	Jyothi Engineering College	1
<a href="#">View File</a>						

### 3.3.6 – h-Index of the Institutional Publications during the year. (based on Scopus/ Web of science)

Title of the Paper	Name of Author	Title of journal	Year of publication	h-index	Number of citations excluding self citation	Institutional affiliation as mentioned in the publication
Design Consistency Evaluation For Two-Lane Rural Roads: A Case Study From Kerala	Jisha Akkara	4th Conference On Transportation Systems Engineering And Management	2017	1	1	Jyothi
<a href="#">View File</a>						

### 3.3.7 – Faculty participation in Seminars/Conferences and Symposia during the year :

Number of Faculty	International	National	State	Local
Attended/Seminars/Workshops	Nil	1	129	43
<a href="#">View File</a>				

### 3.4 – Extension Activities

3.4.1 – Number of extension and outreach programmes conducted in collaboration with industry, community and Non- Government Organisations through NSS/NCC/Red cross/Youth Red Cross (YRC) etc., during the year

Title of the activities	Organising unit/agency/ collaborating agency	Number of teachers participated in such activities	Number of students participated in such activities
<b>No Data Entered/Not Applicable !!!</b>			
No file uploaded.			

3.4.2 – Awards and recognition received for extension activities from Government and other recognized bodies during the year

Name of the activity	Award/Recognition	Awarding Bodies	Number of students Benefited
Accreditation Process	Best Performing IEDC 2016-17	Kerala Startup Mission	480
<a href="#">View File</a>			

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

Name of the scheme	Organising unit/Agency/collaborating agency	Name of the activity	Number of teachers participated in such activities	Number of students participated in such activities
Bootcamp	IEDC in association with Kerala Startup Mission	Hackathon	8	200
No file uploaded.				

### 3.5 – Collaborations

3.5.1 – Number of Collaborative activities for research, faculty exchange, student exchange during the year

Nature of activity	Participant	Source of financial support	Duration
NA	NA	NA	0
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3.5.2 – Linkages with institutions/industries for internship, on-the- job training, project work, sharing of research facilities etc. during the year

Nature of linkage	Title of the linkage	Name of the partnering institution/ industry /research lab with contact details	Duration From	Duration To	Participant
Industrial Training	Industrial Training	Asset Homes, Hisham Transport, Me mfield, Liberty Consultants,	15/06/2016	15/03/2017	59 59
<a href="#">View File</a>					

3.5.3 – MoUs signed with institutions of national, international importance, other universities, industries, corporate houses etc. during the year

Organisation	Date of MoU signed	Purpose/Activities	Number of students/teachers participated under MoUs
President vallathol Nagar Grama Panchayath	04/01/2016	Identification of technical problems of Grama panchayath	3
<a href="#">View File</a>			

**CRITERION IV – INFRASTRUCTURE AND LEARNING RESOURCES**

**4.1 – Physical Facilities**

4.1.1 – Budget allocation, excluding salary for infrastructure augmentation during the year

Budget allocated for infrastructure augmentation	Budget utilized for infrastructure development
940	836.39

4.1.2 – Details of augmentation in infrastructure facilities during the year

Facilities	Existing or Newly Added
Others	Newly Added
Value of the equipment purchased during the year (rs. in lakhs)	Newly Added
Number of important equipments purchased (Greater than 1-0 lakh) during the current year	Newly Added
Video Centre	Existing
Seminar halls with ICT facilities	Existing
Classrooms with Wi-Fi OR LAN	Existing

Classrooms with LCD facilities	Existing
Seminar Halls	Existing
Laboratories	Existing
Class rooms	Existing
Campus Area	Existing
No file uploaded.	

#### 4.2 – Library as a Learning Resource

##### 4.2.1 – Library is automated {Integrated Library Management System (ILMS)}

Name of the ILMS software	Nature of automation (fully or partially)	Version	Year of automation
Campus Book	Fully	1.0	2011

##### 4.2.2 – Library Services

Library Service Type	Existing		Newly Added		Total	
	Text Books	26059	7162961	703	387923	26762
<a href="#">View File</a>						

##### 4.2.3 – E-content developed by teachers such as: e-PG- Pathshala, CEC (under e-PG- Pathshala CEC (Under Graduate) SWAYAM other MOOCs platform NPTEL/NMEICT/any other Government initiatives & institutional (Learning Management System (LMS) etc

Name of the Teacher	Name of the Module	Platform on which module is developed	Date of launching e-content
NA	NA	NA	16/06/2016
No file uploaded.			

#### 4.3 – IT Infrastructure

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

Type	Total Computers	Computer Lab	Internet	Browsing centers	Computer Centers	Office	Departments	Available Bandwidth (MBPS/GBPS)	Others
Existing	767	17	767	1	1	1	6	22	0
Added	0	0	0	0	0	0	0	26	0
Total	767	17	767	1	1	1	6	48	0

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

48 MBPS/ GBPS
---------------

##### 4.3.3 – Facility for e-content

Name of the e-content development facility	Provide the link of the videos and media centre and recording facility
NA	<a href="#">NA</a>

#### 4.4 – Maintenance of Campus Infrastructure

##### 4.4.1 – Expenditure incurred on maintenance of physical facilities and academic support facilities, excluding salary

component, during the year

Assigned Budget on academic facilities	Expenditure incurred on maintenance of academic facilities	Assigned budget on physical facilities	Expenditure incurred on maintenance of physical facilities
622	534.32	318	302.07

4.4.2 – Procedures and policies for maintaining and utilizing physical, academic and support facilities - laboratory, library, sports complex, computers, classrooms etc. (maximum 500 words) (information to be available in institutional Website, provide link)

The institute provides all the facilities required for holistic enrichment of students. The salient infrastructural features of the institute include: 1. Central Library with a rich collection of books and journals. There is well oiled mechanism aimed at efficient and equitable utilization of the resources. The processes are partly automated using inhouse developed library management software integrated with the management information system of the institute. 2. The institute has two well equipped halls Insight Hall and Decennial Hall for conducting technical sessions. There is a welldefined procedure for availing these halls for conducting programmes like FDPs, invited lectures and other erudite programmes. There is a project office which is entrusted with the custody of these facilities and the approval of the office is procured through the management information system, campus book, which is wholly inhouse developed. 3. The institute has a well oiled mechanism for addressing any issue raised in connection with any of the infrastructural facilities provided. In case of failure of any installation electrical and otherwise, the same can be communicated to the project office which is in charge of these facilities through campus book which is the MIS software of the college. 4. All the essential stationery items that are likely to needed by the students are made available through a store which runs through the college hours. 5. Every department submits its requirements with regard to the upgradation of the department infrastructure. The college annual budget is preparation with due consideration of the department level requests. 6. The college provides sufficiently large auditorium which can accommodate the all the students and the faculty together. 7. Each department has a separate seminar hall sufficient for the conduct of presentations as part of the curriculum. Larger programs are typically conducted in the Insight and Decennial halls.

<https://www.jecc.ac.in>

## CRITERION V – STUDENT SUPPORT AND PROGRESSION

### 5.1 – Student Support

#### 5.1.1 – Scholarships and Financial Support

	Name/Title of the scheme	Number of students	Amount in Rupees
Financial Support from institution	Management Scholarship for KEAM Rank	146	3021640
Financial Support from Other Sources			
a) National	Minority Scholarships from MHRD	380	6042890
b) International	NA	Nil	0

[View File](#)

#### 5.1.2 – Number of capability enhancement and development schemes such as Soft skill development, Remedial

coaching, Language lab, Bridge courses, Yoga, Meditation, Personal Counselling and Mentoring etc.,

Name of the capability enhancement scheme	Date of implementation	Number of students enrolled	Agencies involved
Remedial coaching	03/10/2016	116	Faculty
<a href="#">View File</a>			

5.1.3 – Students benefited by guidance for competitive examinations and career counselling offered by the institution during the year

Year	Name of the scheme	Number of benefited students for competitive examination	Number of benefited students by career counseling activities	Number of students who have passed in the comp. exam	Number of students placed
2016	Aptitude training programme by ICT and Six phrase	346	346	269	269
<a href="#">View File</a>					

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

Total grievances received	Number of grievances redressed	Avg. number of days for grievance redressal
Nil	Nil	Nil

## 5.2 – Student Progression

5.2.1 – Details of campus placement during the year

On campus			Off campus		
Name of organizations visited	Number of students participated	Number of students placed	Name of organizations visited	Number of students participated	Number of students placed
AZTEC SOLUTIONS	53	2	ABRAHAM ASSOCIATES, ENGINEERS AND CONSULTANTS	12	3
<a href="#">View File</a>					

5.2.2 – Student progression to higher education in percentage during the year

Year	Number of students enrolling into higher education	Programme graduated from	Department graduated from	Name of institution joined	Name of programme admitted to
2016	6	B.Tech in Civil Engineering	Civil Engineering	MES Engineering college, Kuttipuram, SCMS School of Engineering Technology, VimalJyothi	M.Tech



Engineering College, Kannur,  
Government Engineering College, Thrissur,  
University of Calicut,  
Jyothi Engineering college

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5.2.3 – Students qualifying in state/ national/ international level examinations during the year (eg:NET/SET/SLET/GATE/GMAT/CAT/GRE/TOFEL/Civil Services/State Government Services)

Items	Number of students selected/ qualifying
GATE	6

[View File](#)

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

Activity	Level	Number of Participants
Tharang Tech Fest, Nrithya Dance Competition	State	350

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### 5.3 – Student Participation and Activities

5.3.1 – Number of awards/medals for outstanding performance in sports/cultural activities at national/international level (award for a team event should be counted as one)

Year	Name of the award/medal	National/ Internaional	Number of awards for Sports	Number of awards for Cultural	Student ID number	Name of the student
2016	KTU E ZONE Basket ball Men 2nd positon	National	12	2	JEC16CS014	ALWIN JOSEPH

[View File](#)

5.3.2 – Activity of Student Council & representation of students on academic & administrative bodies/committees of the institution (maximum 500 words)

College has an active student association consisting of student members. The student members of the association is elected through democratic process of election in which student cast their vote to candidates of their choice to select the class representative. From the class representatives the student union is formed. The constitution of the student association comprises Chairmen , Vice Chairperson general secretary , Joint Secretary, Magazine editor , Arts secretary two UUCs and year wise representatives . The association is monitored by senior faculty members who are responsible for the smooth conduct of the association meetings and events. The student association plays a dominant role in many activities related to fine arts, sports and other cocurricular activities of the department and the students. Various cocurricular activities organized by the association include Special Lectures by experts, Seminars,

Workshops, Symposium, National Level Conference and Intercollegiate meet to develop the personality and skills of the student's ability. Eminent speakers and industrialist deliver speeches on topics relevant to current educational scenario. Student members of the associations also observe important days like National Festivals, Birth/Death Anniversaries of important leaders, International Women's Day, International Yoga Day, Sports Day, Nonviolence Day, Teachers Day, Farewell Party, World AIDS Day, They also organizes cultural festivals like Intercollegiate Meet 'Tharang', College Day,, Onam,Christmas Celebration, etc.. Students from each department participate in class committee meeting and faculty feedback will be given.

#### 5.4 – Alumni Engagement

5.4.1 – Whether the institution has registered Alumni Association?

No

5.4.2 – No. of enrolled Alumni:

4020

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

5000

5.4.4 – Meetings/activities organized by Alumni Association :

• General Body meeting • Executive member meeting

### CRITERION VI – GOVERNANCE, LEADERSHIP AND MANAGEMENT

#### 6.1 – Institutional Vision and Leadership

6.1.1 – Mention two practices of decentralization and participative management during the last year (maximum 500 words)

Decentralization The institution has a mechanism of providing operational autonomy to various functionaries in order to ensure a decentralized governance system. 1. Principal Level Principal is the member secretary of the governing body and chairperson of the IQAC. The Principal in consultation with the Teachers' Council nominates different committees for planning and implementation of different academic, student administration and related policies. All academic and operational policies are based on the unanimous decision of the governing body, the IQAC and the teachers council. 2. Faculty level Faculty members are given representation in various committees/cells nominated by the Teachers council, in the Governing body, in the IQAC and other committees. Every year, the composition of different committees is changed to ensure a uniform exposure of duties for academic and professional development of faculty members. Following are the different subcommittees which have been nominated by Teachers' Council (201617):

- o Admission Subcommittee
- o Internal tabulation subcommittee
- o Routine subcommittee
- o Seminar Proposal subcommittee
- o Library subcommittee
- o Student Union Election sub committee
- o Student disciplinary subcommittee
- o Subcommittee for games and sports
- o Canteen subcommittee
- o Journal and publication Sub committee
- o Cultural subcommittee

Following committees are constituted accordance to government guidelines:

- Internal Complaints Committee
- Counselling and Career Guidance and Placement Unit
- Grievance Redressal Cell
- Website committee
- Tax Related Sub Committee
- Anti Ragging Committee
- Press Media Sub Committee.

3. Student level Students are empowered to play important role in different activities. Functioning of different secretaries of students union (listed below) further reinforces decentralization.

- ? Cultural secretary
- ? Student welfare and social service secretary
- ? Canteen secretary
- ? computer in charge

Participative management The

institution promotes the culture of participative management at the strategic level, functional level and operational level. ? Strategic level: The Principal, governing body, Teachers council and the IQAC are involved in defining policies procedures, framing guidelines and rules regulations pertaining to admission, examination, discipline, grievance, support services, finance etc • Functional level: Faculty members share knowledge among themselves, students and staff members while working for a committee. Principal and faculty members are involved in joint research and have published papers • Operational level: The Principal interacts with government and external agencies faculty members maintain interactions with the concerned departments of affiliating university. Students and office staff join hands with the Principal and faculty for the execution of different academic, administrative, extension related, co and extracurricular activities.

6.1.2 – Does the institution have a Management Information System (MIS)?

Yes

## 6.2 – Strategy Development and Deployment

6.2.1 – Quality improvement strategies adopted by the institution for each of the following (with in 100 words each):

Strategy Type	Details
Examination and Evaluation	In each semester two internal tests and a model exam have been conducted. Model exams are conducted to make the students ready to face the end semester exams. Also, continuous evaluation of students for each subject is done by respective faculty through assignments, seminars, etc. A separate Examination cell is constituted for the smooth conduct of the internal exams. End semester examination has been conducted by the respected universities (Calicut and KTU) during the two time periods one in April to May and the other in November to December
Research and Development	Institution gives great importance to activities related to research and development. A R D cell is constituted with research oriented faculty members. Research weeks are conducted to give orientation to faculty members regarding the various funding agencies and how to apply for funded projects. Faculty members are motivated to register for PhD and the management gives full support to the PhD doing faculty members in every possible way. Faculty and students are doing funded projects under KSCSTE and KTU for the benefit of the society Institution has developed into a research centre under KTU with faculty providing guidance for PhD students. There has been a increase in the number of PhD holders in the institution. The management encourages publications in reputed journals and

	<p>international conference. There has been a tremendous increase in the number of staff and students who attended and presented papers in international conference.</p>
<p>Curriculum Development</p>	<p>The curriculum is set by APJ Abdul Kalam Technological University. Representatives from each department are called by the university where they can give their suggestions and feedback before the syllabus is finalized. Gaps in the syllabus of various subjects are communicated to the university for consideration.</p>
<p>Teaching and Learning</p>	<p>? Teaching and Learning Various measures have been taken to improve the quality of teaching and learning process in all the departments of the college. Departmental meetings are arranged periodically to review the progress of the academic plan. Class committee and Course Committee meetings are conducted twice in a semester to review the effectiveness of the teaching learning process. Verbal feedback is collected from the students during this meeting and the same is discussed with concerned faculty members and necessary corrective action is initiated. Also, an online feedback process is developed in the college which is designed in strict accordance with the teaching learning process. The feedback analysis obtained is given to HOD for analysis, and the feedback is communicated to each faculty member concerned. Also, feedback on institutional infrastructure and extracurricular activities is conducted in every semester. To ensure the deep understanding of the subjects, tutorials are conducted for the theory subjects as prescribed by university norms. Tutorial hours are earmarked in the subject time table and the tutorial methodology is well planned before the beginning of the course. Students are given different exercises in order to brush up the fundamentals more precise with the help of faculty in the prescribed hour. A welldefined mentoring system exists in the departments. Mentoring is done by tutor after each sessional exam. Each tutor is allotted around thirty students. Academically weak students are counselled by their mentor. They are</p>

counselled to improve their academic performance by modifying their study habits after taking in to consideration their performance in the tests.

Remedial classes are arranged for the students those who need to be monitored efficiently. The academically bright students are motivated to do exceptionally well in the university exams. To make the students ready for the university examination, previous year question papers and Model university questions paper along with answer key is made available through learning material repository section in Campus Book. Students are constantly encouraged to do NPTEL and MOOC courses to supplement their academic learning.

Also, there is a large collection of NPTEL archived in the library. Students are encouraged to update their skills by attending workshops, internships, industrial visits and seminars. Regular soft skills and aptitude training is done by experts. Each student of the institution is an active member of any one of the professional bodies such as IEEE, IET, CSI, ISTE. To ensure the Teaching learning process, an internal academic audit cell has been constituted as per the requirement of the KTU. It regularly conducts internal audits twice in a semester to monitor the Teaching and Learning Process. An external audit is conducted twice in a semester by an auditor authorized by KTU

Library, ICT and Physical Infrastructure / Instrumentation

Institution has an automated central library with text and reference books Journals / Magazines eBooks eJournal/Magazines and DVDs. A research corner is established in the central library to exhibit the research related articles of the faculty and students of the college. It includes journal and conference publications and the thesis and dissertation works of the staff and students. Also, Department based library facilities are also functioning for the students. Library facilities can be access through Campus Book. The entire campus is WiFi enabled with a speed of 64Mbps. All classrooms are equipped with LCD Projectors, CCTV and a public address system. Adequate, well equipped laboratories to meet the curriculum requirements are available. A sophisticated FabLab has been set up

in association with Kerala Startup mission and MIT. There is facility for conducting webinars which can be made use of by faculty and students

Human Resource Management

Human Resource is the heart of an organisation and forms the lifeline and determines its destiny. The realisation of the mission of the organisation rests on the commitment of the personnel engaged for various assignments and tasks. Motivated and well trained human resource is necessary to fulfil the goals and objectives of the organisation. The college is committed to set high standards of personnel management with due place for efficiency and transparency. The management of the team of people who are called upon to assist in the implementation of the programmes and projects demands a comprehensive Human Resource Management Manual covering policies and procedures that will provide a healthy atmosphere for work.

Industry Interaction / Collaboration

Students are undergoing internships in reputed industries such as FCRI, ITI, CDAC. Keltron, BSNL, TBI, etc. to gain skills to improve their employability. Students undergo final year projects at ISRO, BSNL, KSEB, Keletron, etc. Institution has signed MoU with many industries like Hykon, etc. which reduces the gap between academia and industry.

Admission of Students

For UG programmes, Admission are strictly on the basis of merit. Candidates must be citizens of India/persons of Indian origin (PIO)/Overseas citizen of India (OCI). Candidates should have completed 17 years of age on 31st December 2018. Applicants should Pass Higher Secondary Examination of the Board of Higher Secondary Education of Kerala or an examination recognized equivalent thereto with at least 50 marks in Mathematics separately and 50 marks in Mathematics, Physics and Chemistry/equivalent subjects put together or equivalent grade. Only those Applicants who qualify in Kerala Engineering Entrance Examination 2016 (KEAM 2016) conducted by the Commissioner for Entrance Examinations, Govt. of Kerala are eligible (Candidates should have scored minimum

of 10 marks each in Paper I and Paper II) For PG programmes, Admission is strictly on the basis of merit. The candidates should be an Indian National. The candidates should have studied the Graduate course in an institution approved by the AICTE / Deemed to be Universities in India approved by the UGC. Candidates should have a minimum of 60 aggregate marks in the Engineering Degree examination. For SC/ST candidates a pass in the Engineering Degree course is sufficient. For SEBC (OBC) students, a minimum of 54 aggregate marks in the Engineering Degree examination is mandatory. Candidates, who have passed AMIE / AMIETE Examinations and satisfying the following conditions, are eligible for admission. They must have valid GATE score. A minimum of 55 marks for section B in AMIE/AMIETE examination. First priority for admission shall be to those with valid GATE score. In case seats remain vacant due to lack of candidates with valid GATE score, candidates from Kerala State without valid GATE Score will be considered against such vacancies. If seats are still remaining vacant, candidates from other states will be considered for admission

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

E-governance area	Details
Planning and Development	College has proposed complete office automation. Office automation will include students' database, faculty and staff database, feedback system etc.
Administration	Notices and circulars are uploaded in the college website and communicated to different departments through email from the office of the Principal. Each and every IQAC notice is circulated by the coordinator himself through email.
Finance and Accounts	Receipt of admission fees is completely online. Salary of faculty members and staff is transferred directly to the bank account
Student Admission and Support	Applications are submitted for admission to different courses through the online admission portal • Merit list is prepared and uploaded by fully computerized system • Online counselling is scheduled based on the merit list of candidates. Email ids and



	contact numbers of all members of Anti Ragging Committee, Anti Ragging Squad and Internal Complaints Committee have been uploaded to the college website and students can communicate to the members through email.
<b>Examination</b>	Evaluation of answer scripts is conducted in accordance with the university policies. The college is an approved valuation centre of KTU. Faculty members of this college perform their evaluation duties as examiner, chief examiner, as and when appointed by the university. They also serve as observers as ordered by the University. The faculty also serve as question setters for both UG and PG courses.

### 6.3 – Faculty Empowerment Strategies

6.3.1 – Teachers provided with financial support to attend conferences / workshops and towards membership fee of professional bodies during the year

Year	Name of Teacher	Name of conference/ workshop attended for which financial support provided	Name of the professional body for which membership fee is provided	Amount of support
2016	NIL	NIL	NIL	Nil
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6.3.2 – Number of professional development / administrative training programmes organized by the College for teaching and non teaching staff during the year

Year	Title of the professional development programme organised for teaching staff	Title of the administrative training programme organised for non-teaching staff	From date	To Date	Number of participants (Teaching staff)	Number of participants (non-teaching staff)
2016	Machine Learning	NA	07/12/2016	09/12/2016	28	Nil
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6.3.3 – No. of teachers attending professional development programmes, viz., Orientation Programme, Refresher Course, Short Term Course, Faculty Development Programmes during the year

Title of the professional development programme	Number of teachers who attended	From Date	To date	Duration
Performance Based Work Ethic	15	13/06/2016	19/06/2016	7
<a href="#">View File</a>				

6.3.4 – Faculty and Staff recruitment (no. for permanent recruitment):

Teaching	Non-teaching
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Permanent	Full Time	Permanent	Full Time
20	20	2	2

#### 6.3.5 – Welfare schemes for

Teaching	Non-teaching	Students
4	4	1

### 6.4 – Financial Management and Resource Mobilization

#### 6.4.1 – Institution conducts internal and external financial audits regularly (with in 100 words each)

Financial audit is conducted internally and externally every year. All the labs are checked and verified by a panel of expert members and report is submitted to the Principal.

#### 6.4.2 – Funds / Grants received from management, non-government bodies, individuals, philanthropies during the year(not covered in Criterion III)

Name of the non government funding agencies /individuals	Funds/ Grnats received in Rs.	Purpose
NA	0	NA
No file uploaded.		

#### 6.4.3 – Total corpus fund generated

0
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### 6.5 – Internal Quality Assurance System

#### 6.5.1 – Whether Academic and Administrative Audit (AAA) has been done?

Audit Type	External		Internal	
	Yes/No	Agency	Yes/No	Authority
Academic	Yes	KTU	Yes	IQAC
Administrative	No	Nil	Yes	Internal Auditors elected by board of trustees

#### 6.5.2 – Activities and support from the Parent – Teacher Association (at least three)

PTA plays important role in the well being of the institution. Regular meeting with PTA Executive is conducted to discuss and convey the decisions made by the college council. Also, suggestions and feedbacks from PTA are recorded and taken in to consideration. They award scholarships and financial support for the students who have good academic background. They provide financial assistance for industrial visits for financially weak students. They give financial support to conduct techfest in the institution

#### 6.5.3 – Development programmes for support staff (at least three)

Training and invited talks are organised by the college for personal improvement which enhances their expertise. LabInCharges give talks to make laboratory staff theoretically sound.
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#### 6.5.4 – Post Accreditation initiative(s) (mention at least three)

<ul style="list-style-type: none"> <li>• Constituted IQAC with NAAC Guidelines</li> <li>• The College conducts Faculty Development Program every year to promote and enhance the teaching -learning process more effective.</li> <li>• OBE Sensitization Programs</li> </ul>
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### 6.5.5 – Internal Quality Assurance System Details

a) Submission of Data for AISHE portal	Yes
b) Participation in NIRF	Yes
c) ISO certification	Yes
d) NBA or any other quality audit	Yes

### 6.5.6 – Number of Quality Initiatives undertaken during the year

Year	Name of quality initiative by IQAC	Date of conducting IQAC	Duration From	Duration To	Number of participants
2017	FDP on Design Thinking	30/01/2017	30/01/2017	31/01/2017	116
<a href="#">View File</a>					

## CRITERION VII – INSTITUTIONAL VALUES AND BEST PRACTICES

### 7.1 – Institutional Values and Social Responsibilities

#### 7.1.1 – Gender Equity (Number of gender equity promotion programmes organized by the institution during the year)

Title of the programme	Period from	Period To	Number of Participants	
			Female	Male
A rally on Gender Equality as a part of Manaveeyam Project organised by NSS	28/09/2016	28/09/2016	30	35
Talk on "Women Empowerment and Technologies" by Dr. P S Geethakutty Organized by WDC	09/03/2017	09/03/2017	100	Nil
Talk on "A Successful life : The result of positive Thinking" by Fr. Jinto Perappadan Organized by WDC	28/10/2016	28/10/2016	60	Nil

#### 7.1.2 – Environmental Consciousness and Sustainability/Alternate Energy initiatives such as:

Percentage of power requirement of the University met by the renewable energy sources
Percentage of power requirement of the College met by the renewable energy sources • Organisation of World habitat day celebrations was done and a technical talk on "Affordable Homes" was arranged. • Centre for Water Research

and Education (CWRE) is established for remediation of water related issues which includes water quality, rain water harvesting etc. The centre maintains a Govt. approved commercial laboratory which undertakes testing of water quality. Solutions for water quality issues are disseminated through oral interactions with the individual customer and also through a website maintained by the centre. • In order to disseminate the water quality issues a book in Malayalam namely, "Jalavum Jeevithavum (Water and Life)" is published and is being distributed among relevant people and organisation • We encourage taking up environmentally related B.Tech student projects • As part of Environment Day celebrations, saplings of different trees were planted within the campus. • We were part of First Phase activities of Haritha Kerala Mission, Panjal Grama Pachayath, which intends to trigger the agricultural development by efficient water resources planning, organic farming methods and waste management. • Utilising a Solar power plant of 67.30 kWp. The average production and consumption is 6000 units which is about 25 of the power requirement of the college.

#### 7.1.3 – Differently abled (Divyangjan) friendliness

Item facilities	Yes/No	Number of beneficiaries
Physical facilities	Yes	Nil
Provision for lift	Yes	Nil
Ramp/Rails	Yes	Nil
Braille Software/facilities	No	Nil
Rest Rooms	Yes	Nil
Scribes for examination	No	Nil
Special skill development for differently abled students	No	Nil

#### 7.1.4 – Inclusion and Situatedness

Year	Number of initiatives to address locational advantages and disadvantages	Number of initiatives taken to engage with and contribute to local community	Date	Duration	Name of initiative	Issues addressed	Number of participating students and staff
2016	1	1	15/03/2017	1	blood donation	blood donation	100
2016	1	1	24/07/2016	1	Social Work Programme	Cleaned road side of locality	45
2016	1	1	13/08/2016	1	Swatchbarath Pakhwada Mission	Cleaned the banks of Bharat hapuzha	50
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#### 7.1.5 – Human Values and Professional Ethics Code of conduct (handbooks) for various stakeholders

Title	Date of publication	Follow up(max 100 words)
College Diary	01/06/2016	Describes the vision and mission of the college and each department. Academic roadmaps also described in the college diary. The Rules and regulations of university and college is also given. General information to students such as dress code, discipline conduct and behaviour, attendance and leave regulations, ragging etc are also given
College Website	01/06/2016	Describes the vision and mission of the college and each department. College website provide informations beyond academics. It includes the details of activities undertaken by women development cell, NATURA Environment club, Blood donation Forum, NSS , Health Club etc.
HR Manual	01/06/2016	HR Manual explains the vision and mission of the college. The core values quality policy and the HR management policy is described. The values that preserve the dignity of the human being the equal opportunity policy regarding equity Justice, professionalism transparency and accountability and legal compliance are also well explained.

7.1.6 – Activities conducted for promotion of universal Values and Ethics

Activity	Duration From	Duration To	Number of participants
Manaveeyam organised by NSS Awareness on cleanliness, power saving, Road safety, anti drugs, importance Shuchithvam and	26/09/2016	01/10/2016	95

social awareness

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### 7.1.7 – Initiatives taken by the institution to make the campus eco-friendly (at least five)

- Solar panel installation Renewable Energy (Solar power plants) with capacity 63.7 kW .
- The college has 80 lakhs litres capacity Rain water Harvesting system (50m x 20m x 8m).
- Digital Jyothi initiated with Communications done through Campus Book which reduces paper.
- The institution is a plastic free campus
- The College has established a an exsitu conservatory garden of medicinal plants. This garden has around 40 species of various important medicinal plants such as Ashokam, Brahmi, Kanikkonna, Chittamruthu, Ungu, Venga, Athi, Iluppa, Thanni, Chandanam, Plassu etc.
- Wide varieties of Bamboo are planted in the campus
- Natura ClubActivities of environmental forum
- Rain water harvesting system
- Clean campus initiative

## 7.2 – Best Practices

### 7.2.1 – Describe at least two institutional best practices

Describe at least two institutional best practices

1. Mentoring Mentoring is a system of providing guidance by sharing their experience, knowledge skills for improving carrier and futuristic life. For mentoring process each student in class is allotted to faculty. Each student is subjected to mentoring twice in a semester. Students are also referred to special counselling if required. Mentors record book clearly defines the details a particular student. The book consists of all the data regarding academic and personal information.

2. Introduction of practice oriented learning using the FABLAB facility College has started a mini fab lab(mini fabrication laboratory ) with support of APJ Abdul Kalam Technological university and Kerala Startup Mission (KSUM) in the college campus. JECC Mini Fab lab is the one of the first 20 mini fab lab in Kerala. Each Mini fab lab contains machineries, tools and consumables cost of 50 lakh Indian rupees. Fab labs provide widespread access to modern means for invention. It provides a small scale workshop offering digital fabrication.. Students are encouraged to do projects using the facilities of the lab.

Upload details of two best practices successfully implemented by the institution as per NAAC format in your institution website, provide the link

<https://www.jecc.ac.in>

## 7.3 – Institutional Distinctiveness

### 7.3.1 – Provide the details of the performance of the institution in one area distinctive to its vision, priority and thrust in not more than 500 words

Technical skill enhancement The college is supporting activities for students to improve their ability to carry out task associated with technical roles. The aim is to improve the confidence among the students and make them more valuable candidates as employer. It also helps in improving the technical skills which often better at multitask challenging and complex role. The college encourage students in participating in different technical skill development workshops, competition, technical fest etc that creating a plat form for excelling their skills. INNOVATION AND ENTREPRENEURSHIP DEVELOPMENT CELL (IEDC) started on October 2015 helps the students in strengthening their skills. The implementation of IEDC helps the students to enhance interpersonal and leadership skills by organising workshops, invited lectures, project exhibitions etc. The IEDC core committee approves budding ideas submitted from students and recommends them to the Startup centre or tbi@jec based on the maturity phase of the idea. Ideation to Prototype activities are recommended and supported at the Startup Centre, which houses the IoT lab. College has started a mini fab lab(mini fabrication laboratory ) with support of APJ Abdul

Kalam Technological university and Kerala Startup Mission(KSUM) in the college campus. ECC Mini Fab lab is the one of the first 20 mini fab lab in kerala. Each Mini fab lab contains machineries, tools and consumables cost of 50 lakh Indian rupees. Students are encouraged to do projects using the facilities of the lab

Provide the weblink of the institution

<https://www.jecc.ac.in>

### **8.Future Plans of Actions for Next Academic Year**

Student performance

1. Encourage students to actively engage with the industrial organizations during their internship.
2. Provide guidance and training for the examinations such as CAT,GATE, GMAT, TOEFL and GRE.
3. Provide business training to equip students interested in becoming entrepreneurs.
4. Improve the average CGPA scored by the passed out students to more than 7.
5. Prepare a learning material repository as a reference material for students.
6. Encourage students to take part in technical programmes and competitions

Faculty Development

1. Encourage all faculty members to enroll for Ph.D programmes
2. Conduct Faculty Development Programs for enhancing research interest.
3. Every faculty should have done at least one MOOC course prior to handling a subject/course.
4. Faculty should be encouraged to go on industry sabbaticals
5. Encourage faculty members to enhance publications quantitatively and qualitatively by framing a research policy in coordination with the research cell
6. Encourage faculty to try for funded projects.
7. Establishment of MoUs with other research and academic institutes
8. Awareness initiatives on Patent and their relevance in the present academic world.
9. Encourage faculty to try for industrial projects

OBE and accreditation

1. Audit of the course material generated to enhance the quality of delivery and sensitize the faculty to the requirements of OBE.
2. Established a procedure for the conduct of internal evaluation of students in confirmity with the principles of OBE.
3. NBA reaccreditation activities monitoring
4. Increase the awareness among the faculty about the need to take part in the curriculum revision process of the university.

Research Development

1. Each department should form research groups and have to produce one paper out of their activities.
2. Each department should have ongoing funded RD of value more than 5 lakhs.
3. Every department should engage in industrial consultancy work worth Rs.1 lakh.
4. Every faculty member should publish at least one research article every year in an SCI/SCOPUS indexed journal.
5. All the faculty members participate / present papers in international conferences / workshops / FDPs organized by leading institutions in India and abroad.
6. Each department should organize at least one conference and one FDP every year.
7. Each faculty has to attend two external and one internal faculty training programs of at the least one week in last three academic years.