Yearly Status Report - 2015-2016

Part A	
Data of the Institution	
1. Name of the Institution	**JYOTHI ENGINEERING COLLEGE**
Name of the head of the Institution	**Dr.K.K Babu**
Designation	**Principal**
Does the Institution function from own campus	**Yes**
Phone no/Alternate Phone no.	**04884259000**
Mobile no.	**9497359153**
Registered Email	**info@jecc.ac.in**
Alternate Email	**iqac@jecc.ac.in**
Address	**Jyothi Hills, vettikkattiri po**
City/Town	**Cheruthuruthy-Thrissur**
State/UT	**Kerala**
Pincode	**679531**

2. Institutional Status

Affiliated / Constituent	**Affiliated**
Type of Institution	**Co-education**
Location	**Rural**
Financial Status	**Self financed**
Name of the IQAC co-ordinator/Director	**Dr. Balagopal M**
Phone no/Alternate Phone no.	**048844259000**
Mobile no.	**9895837646**
Registered Email	**info@jecc.ac.in**
Alternate Email	**iqac@jecc.ac.in**

3. Website Address

Web-link of the AQAR: (Previous Academic Year)	https://www.jecc.ac.in/iqac#tab_AQAR

4. Whether Academic Calendar prepared during the year

4. Whether Academic Calendar prepared during the year	**Yes**
if yes,whether it is uploaded in the institutional website: Weblink :	https://jecc.ac.in/iqac#tab_academic_calendar

5. Accrediation Details

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

6. Date of Establishment of IQAC

6. Date of Establishment of IQAC	**10-Oct-2016**

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
Facilitate Academic Audit -External	**29-Apr-2016** **1**	**118**
Conduct Academic Audit-lnternal	**28-Apr-2016** **1**	**118**

Facilitate Academic Audit -External	30-Oct-2015 1	118
Conduct Academic Audit- lnternal	29-Oct-2015 1	118
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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
nil	nil	nil	2016 0	0
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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 :	**2**
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)

1. Conduct internal audit 2. Facilitate External feedback 3.Collecting Student feedback and Analysis 4.Research promotion through research workshops

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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

Plan of Action	Achivements/Outcomes
Promotion of research culture	Organized FDPs for research promotion also gave a proposal for starting an R&D wing in the college

Students Feedback	Students feedback collected twice in a semester and reported to principal for necessary actions.
Academic Audit	IQAC sucsessfully conducted internal audits and facilatated external audit by the university
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14. Whether AQAR was placed before statutory body ?

Yes

Name of Statutory Body	Meeting Date
College Council	23-Mar-2021

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

17. Does the Institution have Management Information System ?

Yes

If yes, give a brief descripiton and a list of modules currently operational (maximum 500 words)

The college has a comprehensive and wellintegrated Management Information System, the Campus Book an 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 • 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.
•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. • 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 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, NPTELVideos etc). A wellestablished 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 is 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 issued 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 university of Calicut/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 are 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 been 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
NIL	NIL	Nil	Nil	NIL	NIL

1.2 – Academic Flexibility

1.2.1 – New programmes/courses introduced during the academic year

Programme/Course	Programme Specialization	Dates of Introduction
BTech	NIL	15/06/2015
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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	15/06/2015

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

	Certificate	Diploma Course
Number of Students	263	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

Add On Course on Sheet Metal Design Using SOLIDWORKS	16/03/2016	26
Talk on Artificial Intelligence applied to Robotics	11/02/2016	15
Project Expo	15/09/2015	24
Two day workshop on Robotics Swarm	16/10/2015	22
Talk on Networking At A Glance	29/03/2016	47
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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	CIVIL	14
BTech	COMPUTER SCIENCE	36
BTech	ELECTRICAL & ELECTRONICS	34
BTech	ELECTRONICS & COMMUNICATION	32
BTech	MECHANICAL	46
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1.4 – Feedback System

1.4.1 – Whether structured feedback received from all the stakeholders.

Students	Yes
Teachers	Yes
Employers	Nill
Alumni	Yes
Parents	Nill

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 system 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: Guidelines of IQAC and submission of AQAR for Affiliated/Constituent Colleges Page 32 ? 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	ME	120	171	126
BTech	EEE	60	65	37
BTech	ECE	120	98	61
BTech	CSE	120	131	80
BTech	CE	60	79	63
Mtech	COMPUTER SCIENCE ENGINEERING	18	11	6
Mtech	POWER ELECTRONICS	18	3	2
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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
2015	1777	39	104	1	13

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	Numberof smart classrooms	E-resources and techniques used
118	118	5	32	32	5
View File of ICT Tools and resources					
View File of E-resources and techniques used					

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.1:

Number of students enrolled in the institution	Number of fulltime teachers	Mentor : Mentee Ratio
1816	118	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
118	118	Nill	14	8

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
2015	Mr.Viju Shankar	Assistant Professor	Computing and IT Innovation Students Award Instituted By University Of Calicut
2015	Ms.Jyothis T S	Assistant Professor	Computing and IT Innovation Students Award Instituted By University Of Calicut
2015	Mr.Bineesh M	Assistant Professor	Computing and IT Innovation Students Award Instituted By University Of Calicut
2015	Prof.Rajappan Pillai	Professor	Selected as Academic Auditor of Kerala Technological University
2015	Prof.Rajappan Pillai	Professor	Selected as Member of Board studies in Engineering(PG) of the Calicut University
2015	Ms.Divya M Menon	Assistant Professor	Best Paper Award,IEEE international conference on 'Circuit, Power and Computing Technolog

			ies-2016',Nooral Islamic University, Kanyakumari
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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	31/12/2015	31/01/2016
Mtech	PG	S1/S3	31/12/2015	31/01/2016
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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/

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
UG	BTech	CE	63	54	85.71
UG	BTech	CSE	97	89	91.75
UG	BTech	ECE	63	55	87.30
UG	BTech	EEE	56	41	73.21
UG	BTech	MR	122	100	81.96
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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://jecc.ac.in/iqac#tab_students_satisfactory_survey

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
Major Projects	730	KSCSTE	12.7	0
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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
Workshop for Gate Aspirants	Electronics and Communication Engineering	07/01/2016
Seminar on Quality worklife- The Need of the Day	Electronics and Communication Engineering	12/10/2015
Seminar on The Role of Scientists in Nation Building	Electronics and Communication Engineering	21/07/2015

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
Startup i3	Ashith Wilson	Kerala Startup Mission	19/10/2015	Prize
ICTAK Techathlon	Ashith Wilson	ICT Academy of Kerala	28/01/2016	Prize
Share Point	Alwin Vincent, Arun Rappai C, Leenat Chacko C	University of Calicut	07/08/2015	Award
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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
NIL	NIL	NIL	NIL	NIL	Nill
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3.3 – Research Publications and Awards

3.3.1 – Incentive to the teachers who receive recognition/awards

State	National	International

0	00	00

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

Name of the Department	Number of PhD's Awarded
NIL	Nill

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	Civil Engineering	1	0
International	Electronics and Communication Engineering	1	0
International	Electrical and Electronics Engineering	9	0
National	Mechanical Engineering	1	0
International	Mechanical Engineering	5	0

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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
Computer Science and Engineering	55
Electronics and Communication Engineering	1
Electrical and Electronics Engineering	11
Mechanical Engineering	1

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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
Closed loop control of high step up DC/DC converter based on coupled inductor and switched capacitor	Soumya C	International Journal of Latest Research in Engineering and Technology (IJLRET)	2016	0	Jyothi Engineering College, Thrissur	Nill

One cycle control of interleaved Buck converter with step down conversion ratio.	Della David	International Research Journal of Engineering and Technology (IRJET)	2015	0	Jyothi Engineering College, Thrissur	Nill
PFC Cuk converter fed BLDC motor drive using artificial nueral network.	Della David	International Research Journal of Engineering and Technology (IRJET)	2015	0	Jyothi Engineering College Thrissur, India	Nill
Analysis of regenerative braking in brushless DC motor drive using adaptive nero based fuzzy inference system	Ratnan P	International Research Journal of Engineering and Technology (IRJET)	2015	0	Jyothi Engineering College, Thrissur, India	Nill
Simulation on the generation of electricity from running train wheels.	JarinT	International Journal of Mechanical and Production Engineering Research and Development (IJMPERD)	2016	0	Jyothi Engineering College Thrissur, India	116
COMBATING POLLUTION IN TRADITIONAL WATER SOURCES OF KERALA	Prof. M.G. Cyriac, Prof. S. Rathish, Jisha Akkara, Neeraja.P.G	International Journal of Advance Research in Science and Engineering	2016	0	Jyothi Engineering College Thrissur, India	Nill
Simplified Control Algorithm For Power	SINDHU S	International Journal of Control Theory and	2015	0	Jyothi Engineering College Thrissur, India	38

Quality Improvement In Industrial Applications		Applications					
Ripple current reduction technique for DC to DC converter using tapped inductor.	Rengini G	International Research Journal of Engineering and Technology (IRJET)	2015	0		Jyothi Engineering College Thrissur, India	Nill
PWM Control of High Gain Sepic Boost Converter with Coupled Inductor and Charge pump capacitor	Rengini G	International Journal of Science and Research (IJSR)	2015	0		Jyothi Engineering College, Kerala, India	Nill
The Derivative of a Switched Coupled Inductor DC-DC Step Up Converter by using a Voltage Lift Network with Closed Loop Control for Micro Source Applications.	Akhil A. Balakrishnan	International Journal of Science and Research (IJSR)	2016	0		Jyothi Engineering College, Kerala, India	Nill
			[View File](#)				

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
PWM	Rengini	Internat	2015	Nill	Nill	Jyothi E

Control of High Gain Sepic Boost Converter with Coupled Inductor and Charge pump capacitor	G	ional Research Journal of Engineering and Technology (IRJET)				ngineering College, Thrissur
Ripple current reduction technique for DC to DC converter using tapped inductor.	Soumya C	International Journal of Latest Research in Engineering and Technology (IJLRET)	2016	Nill	Nill	Jyothi Engineering College, Thrissur
Closed loop control of high step up DC/DC converter based on coupled inductor and switched capacitor	Della David	International Research Journal of Engineering and Technology (IRJET)	2015	Nill	Nill	Jyothi Engineering College Thrissur, India
One cycle control of interleaved Buck converter with step down conversion ratio.	Della David	International Research Journal of Engineering and Technology (IRJET)	2015	Nill	Nill	Jyothi Engineering College Thrissur, India
PFC Cuk converter fed BLDC motor drive using artificial nueral network.	Reshma Raj	INTERNATIONAL JOURNAL OF ENGINEERING RESEARCH TECHNOLOGY	2015	Nill	Nill	Jyothi Engineering College Thrissur, India
Analysis of regenerative braking in	Ratnan P	International Research Journal of	2015	Nill	Nill	Jyothi Engineering College, Thrissur,

brushless DC motor drive using adaptive nero based fuzzy inference system		Engineering and Technology (IRJET)				India
Simulation on the generation of electricity from running train wheels.	JarinT	International Journal of Mechanical and Production Engineering Research and Development (IJMPERD)	2016	7	116	Jyothi Engineering College Thrissur, India
Combating pollution in traditional water sources of Kerala	Prof. M.G. Cyriac, Prof. S. Rathish, Jisha Akkara, Neeraja.P.G	International Journal of Advance Research in Science and Engineering	2016	Nill	Nill	Jyothi Engineering College Thrissur, India
Simplified Control Algorithm For Power Quality Improvement In Industrial Applications	SINDHU S	International Journal of Control Theory and Applications	2015	4	38	Jyothi Engineering College Thrissur, India
The Derivative of a Switched Coupled Inductor DC-DC Step Up Converter by using a Voltage Lift Network with Closed Loop Control	Akhil A Balakrishnan	International Journal of Science and Research (IJSR)	2016	Nill	Nill	Jyothi Engineering College Thrissur, India

for Micro Source Applications.						

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

Number of Faculty	International	National	State	Local
Nill	Nill	Nill	Nill	Nill

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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
MARTYRS DAY AWARENESS	NSS UNIT 244	2	100
WORLD ENERGY SAVING DAY AWARENESS-PROGRAM AT SCHOOLS	NSS UNIT 244	10	50
LOCALITY CLEANING	NSS UNIT 244	6	25
PULLAZHI ST. JOSEPH OLD AGE HOME VISIT AND INTERACTION WITH INMATES	NSS UNIT 244	4	30
SERVICE AT PANCHAYATH-RECORD KEEPING	NSS UNIT 244	2	15
POLIO IMMUNIZATION AWARENESS(3 DAYS)	NSS UNIT 244	8	50
ASTRAJYOTHI	NSS UNIT 244	50	100
RAILWAY STATION CLEANING	NSS UNIT 244	2	20
Additional Skill Acquisition Programme-Assistant Electrician	Goverment of Kerala and Jyothi Engineering College	5	25

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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
NIL	NIL	NIL	Nill

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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 activites	Number of students participated in such activites
AIDS AWARENESS PROGRAMME	NSS UNIT 244	AIDS AWARENESS PROGRAMME	2	50
SWATCH BHARATH ACTIVITY	NSS UNIT 244	SWATCH BHARATH ACTIVITY	15	100
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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
NIL	NIL	NIL	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
NIL	NIL	NIL	Nill	Nill	0
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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
Vallathol Nagar Grama Panchayath	04/01/2016	Identification of Technical problems faced by Panchayath and solve them through B.Tech Projects	3
Cosmic Micro Power Solutions Pvt. Ltd., Bangalore	09/01/2015	Firmware Software support	Nill
Alumni (1988-1991 Batch), THS, Shoranur	18/11/2015	Development of Website and maintenance	1
Hykon , hykon House Ikkandawarrier road	12/01/2015	Provides preventive maintenance during	Nill

Thrissur, Kerala, India -680001		the contract period in fixed intervals. undertakes to Service and maintain the equipment and Battery during the contract period	
Cedicom P O Road Shoranur,Palakkad Dt. Kerala 679121	09/01/2015	Supply of High Voltage Ceramic Disc Capacitors, Metal Oxide Varistors and Piezo Buzzers Testing facilities	Nill
MOU with Volta Power Controls, Thrissur	17/06/2015	Internship ,Apprenticeship,Industrial Training,Project Assistance	Nill
MOU with Electrocrafts Thrissur	17/06/2015	Internship ,Apprenticeship,Industrial Training,Project Assistance	Nill
MOU with Comtech Engineers	17/06/2015	Internship ,Apprenticeship,Industrial Training,Project Assistance	Nill
Mayil Vahanam Industries	29/01/2015	Industrial In-Plant Training	Nill
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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
1588	1557.8

4.1.2 – Details of augmentation in infrastructure facilities during the year

Facilities	Existing or Newly Added
Number of important equipments purchased (Greater than 1-0 lakh) during the current year	Newly Added
Campus Area	Newly Added
Class rooms	Newly Added
Laboratories	Newly Added
Seminar Halls	Existing
Classrooms with LCD facilities	Newly Added
Seminar halls with ICT facilities	Newly Added
Classrooms with Wi-Fi OR LAN	Newly Added

Value of the equipment purchased during the year (rs. in lakhs)	Newly Added

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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 patially)	Version	Year of automation
CAMPUS BOOK	Fully	1.0	2011

4.2.2 – Library Services

Library Service Type	Existing		Newly Added		Total	
Text Books	24880	6543718	1179	619243	26059	7162961
Reference Books	7631	3700678	284	224849	7915	3925527
e-Books	986	280893	26	253006	1012	533899
Journals	65	126615	2	5000	67	131615
e-Journals	518	1594890	Nill	Nill	518	1594890
CD & Video	1821	Nill	65	Nill	1886	Nill
Others(specify)	Nill	11500	Nill	Nill	Nill	11500

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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
NIL	NIL	NIL	Nill

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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	0	0
Total	767	17	767	1	1	1	6	22	0

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

<div align="center">22 MBPS/ GBPS</div>

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
NIL	NIL

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 incurredon maintenance of physical facilites
652	623.62	186	215.07

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 welloiled 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 Management Scholarship KEAM Scholarship TFW	299	15275410

	Scholarship		
Financial Support from Other Sources			
a) National	E-grants by the State Govt	91	5626229
b)International	Nill	Nill	Nill

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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 implemetation	Number of students enrolled	Agencies involved
Group Discussion Training	22/01/2016	46	IMT Hyderbad (with IMT Ghaziabad group)
Pre-Placement Training (Softskills and Aptitude)	07/09/2015	241	CareerFit360 Pvt. Ltd, Cochin
Pre-Placement Training (Aptitude)	19/08/2015	52	CareerFit360 Pvt. Ltd, Cochin
Two Day workshop on Robotics Embedded Systems	22/06/2016	110	ISTE STUDENT CHAPTER KE-045
AZIKSA 15- Raspberry Pi Workshop	07/08/2015	84	ACT IIT Kharagpur and TechBharat Consulting
Planet 50-50 by 2030: Step It Up for Gender Equality	08/03/2016	25	Dr. P.Indira Devi , Director, Centre of Excellence in Environment Economics
Women in STEM – a fillip to National Development	09/10/2015	20	Dr K R Lekha , Scientist WSD KSCSTE
STUDENT ORIENTATION PROGRAMME	10/09/2015	368	Mr.Mathew Jacob,Mr.Ranju Kuruvila Kurien (ICT Academy)
Talk on :VIDYA-SCIENCE OF HAPPINESS	26/02/2016	62	Dr.S Karunanidhi , Scientist G,DRDO Hyderabad
Pre-Placement Training (Aptitude - Infosys Pattern)	19/10/2015	123	Prometis Ltd

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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	Number of benefited	Number of students who	Number of studentsp placed

		students for competitive examination	students by career counseling activities	have passedin the comp. exam	
2016	Internship Orientation	Nill	16	Nill	Nill
2016	Communication Workshop Mr. Arun, Infosys Limited	Nill	132	Nill	Nill
2016	Industry Expectations from Freshers for Core Engineering Mr.Venkatesh, Senior Manager, Ashok Leyland	Nill	51	Nill	Nill
2016	Group Discussion Training IMT Hyderbad (with IMT Ghaziabad group)	Nill	46	Nill	Nill
2015	"Study in UK" – An interactive session for interested students Mr. Abhilash Nair (University of Strathclyde, UK)	Nill	61	Nill	Nill
2015	Pre-Placement Training (Aptitude - Infosys Pattern) by Prometis Ltd	123	Nill	31	22
2015	Pre-Placement Training (Softskills and Aptitude) by CareerFit360	Nill	149	Nill	Nill

2015	Orientation Programme - Goal Setting	Nill	349	Nill	Nill
2015	Pre-Placement Training (Softskills and Aptitude) by CareerFit360 Pvt. Ltd, Cochin	Nill	241	Nill	Nill
2015	What's Next After Engineering by Prof. Dr. A.N.Brijesh Nair, VIT University (Chennai)	Nill	542	Nill	Nill
[View File](#)					

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
Nill	Nill	Nill

5.2 – Student Progression

5.2.1 – Details of campus placement during the year

On campus			Off campus		
Nameof organizations visited	Number of students participated	Number of stduents placed	Nameof organizations visited	Number of students participated	Number of stduents placed
IBS	97	2	BEYOND Solutions	4	1
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5.2.2 – Student progression to higher education in percentage during the year

Year	Number of students enrolling into higher education	Programme graduated from	Depratment graduated from	Name of institution joined	Name of programme admitted to
2016	1	Btech	CSE	AdiSankara Institute Of Engineering Technology	MBA
2016	4	Btech	CSE	Jyothi Engineering College	Mtech

2016	1	Btech	CSE	IPAG Business School,Paris	MBA
2016	1	Btech	CSE	Rajagiri Center For Business Studies	PGDM
2016	1	Btech	CSE	GEC Idukki	Mtech
2016	1	Btech	CSE	Karunya University	Mtech
2016	1	Btech	CSE	CUSAT	Mtech
2016	1	Btech	ECE	MODEL ENGINEERING COLLEGE	Mtech
2016	1	Btech	ECE	SAHRDAYA COLLEGE OF ENGINEERING AND TECHNOLOGY	Mtech
2016	1	Btech	ECE	RAJAGIRI SCHOOL OF ENGINEERING AND TECHNOLOGY	Mtech

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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	4
GMAT	1
CAT	1

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

Activity	Level	Number of Participants
Essay Writing Competetion	College Level	2
Recitation English	College Level	1
English Debate	College Level	1
400m Race	College Level	1
Monoact-Keralolsavam	State	1
Monoact-Keralolsavam	District	1
D-Zone Arts Fest	Intercollegiate	1

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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	First Prize	National	Nill	2	JYANEEE050	Stephy Akkara
2016	Second Prize	National	Nill	1	JYANEEE050	Stephy Akkara
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5.3.2 – Activity of Student Council & representation of students on academic & administrative bodies/committees of the institution (maximum 500 words)

The college has an active student association consisting of student members. The student members of the association are elected through the 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 Chairman, 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 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 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, Sports Day, Farewell Party,They also organizes cultural festivals like Intercollegiate Meet 'Tharang', College Day,,Onam,Christmas Celebration, etc.. Students from each department participate in a 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:

356

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

178000

5.4.4 – Meetings/activities organized by Alumni Association :

Annual Meeting, Inhouse 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 sub-committees which have been nominated by Teachers' Council (2018-19): Admission Sub-committee · Internal tabulation sub-committee · Routine sub-committee · Seminar Proposal sub-committee · Library sub-committee · Student Union Election sub-Committee · Student disciplinary sub-committee · Sub-committee for games and sports · Canteen sub-committee · Journal and publication Sub- committee · Cultural sub-committee 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
Curriculum Development	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.
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 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. To make the students ready for the university examination, previous year question papers and Modeluniversity 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, IEI, 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
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 international conference. There has been a tremendous increase in the

		number of staff and students who attended and presented papers in international conference
	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 2018 (KEAM 2018) 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 beconsidered 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-governace area	Details
Planning and Development	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.
Examination	Evaluation of answer scripts is conducted in accordance with the university policies. The college is a 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
2015	Nil	Nil	Nil	Nill

No file uploaded.

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	Title of the	From date	To Date	Number of	Number of

	professional development programme organised for teaching staff	administrative training programme organised for non-teaching staff			participants (Teaching staff)	participants (non-teaching staff)
2015	Empowering through team work, Jyothi Engineering College	Nill	01/06/2015	07/06/2015	107	Nill
2015	Nill	Empowering through team work, Jyothi Engineering College	01/06/2015	07/06/2015	Nill	61
2016	FDP on Internet of Things	Nill	22/04/2016	23/04/2016	20	Nill
			[View File](#)			

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
National Workshop on Python	12	31/07/2015	01/08/2015	2
Internet of Things, Jyothi Engineering College	21	22/04/2016	23/04/2016	2
Empowering through Team Work	69	01/06/2015	07/06/2015	7
		[View File](#)		

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

Teaching		Non-teaching	
Permanent	Full Time	Permanent	Full Time
9	5	6	6

6.3.5 – Welfare schemes for

Teaching	Non-teaching	Students
Staff Club, Medical Leave, Gratuity	ESI, Staff Club, Medical Leave, Provident Fund	Medical Insurance

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
Nil	0	Nill

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6.4.3 – Total corpus fund generated

0

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	Yes	Abraham Jose	No	Nill

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)

Trainings and invited talks are organised by the college for personal improvement which enhances their expertise. Lab-in-Charges give talks to make laboratory staff theoretically sound.

6.5.4 – Post Accreditation initiative(s) (mention at least three)

The College conducts Faculty Development Program every year to promote and enhance the teaching -learning process more effective,OBE Sensitization Programs

6.5.5 – Internal Quality Assurance System Details

a) Submission of Data for AISHE portal	Yes
b)Participation in NIRF	No
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

2015	Facilitate external academic audit	30/10/2015	30/10/2015	30/10/2015	118
2015	Conduct Internal academic audit	29/10/2015	29/10/2015	29/10/2015	118
2016	Facilitate external academic audit	29/04/2016	29/04/2016	29/04/2016	118
2016	Conduct Internal academic audit	28/04/2016	28/04/2016	28/04/2016	118

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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
SANSKRITHI Inauguration	09/10/2015	09/10/2015	100	Nill
Self Defense for Women	17/11/2015	17/11/2015	64	Nill
Margi Sathi- In Death	02/12/2015	02/12/2015	30	Nill
Women's Day Celebration	08/03/2016	08/03/2016	50	Nill

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

1. The inauguration of Haritha Jyothi – the activities of Natura (Environmental forum) was held on 27.05.2015. 2. Natura of Jyothi Engineering College has a tie-up with Oushadhi, Government owned Ayurvedic Medicine Manufacturing Unit. An Exsitu conservation garden of medicinal plants was established whose aim was to give awareness about the traditional medicinal plants used from the ancient times. 3. 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. Testing of water is done at a concessional rate for the staff students and nearby panchayat. 4. An online interactive portal is also maintained by the CWRE, through which the public can share their doubts. Experts from various reputed organizations are assigned for clearing the doubts. 5. CWRE also undertakes research work on domestic water quality issues based on the problems faced by the customers. 6. We encourage

taking up environmentally related B.Tech student projects 7. Utilising a Solar power plant of 67.30 kWp. The average production and consumption is 60

7.1.3 – Differently abled (Divyangjan) friendliness

Item facilities	Yes/No	Number of beneficiaries
Physical facilities	Yes	Nill
Provision for lift	Yes	Nill
Ramp/Rails	Yes	Nill
Rest Rooms	Yes	Nill

7.1.4 – Inclusion and Situatedness

Year	Number of initiatives to address locational advantages and disadva ntages	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
2015	1	1	14/08/2015	1	RAILWAY STATION CLEANING	Cleaning	22
2015	1	1	01/12/2015	1	AIDS AWARNESS PROGRAM	Awareness Program	52
2015	1	1	24/07/2015	1	BLOOD DONATION Camp	Blood donation promotion	45
2015	1	1	17/12/2015	1	SWATCH BHARATH	Cleaning	115
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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)
Handbook	15/07/2015	The Hand Book is issued to all as the regular classes commence. Both the vision and mission of the college and individual department are highlighted. The quality policy gives importance to Ragging free and Tobacco-free campus. Student Information sheet to be filled and to be submitted in the office . The University calendar gives the starting and closing date of the semester along with the Rules and regulations of university. The college

			discipline clearly mentions the schedule of college bus timing, contact number of all staff and all helping hands are included in the diary. The dress code is also mentioned
College Website	01/06/2015		Describes the vision and mission of the college and each department. College website provide information's 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	01/07/2015		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
POLIO IMMUNISATION NOTICE DISTRIBUTION	09/01/2016	24/01/2016	58
No file uploaded.			

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

1. Solar panel installation Renewable Energy (Solar power plants) with capacity 63.7 kW . 2. The college has 80 lakhs litres capacity Rain water Harvesting system (50m x 20m x 8m). 3. Digital Jyothi initiated with Communications done through Campus Book which reduces paper. 4. The institution is a plastic free campus 5. The College has established an exsitu conservation 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. 6. Natura Club Activities of environmental forum 7. Clean campus initiative

7.2 – Best Practices

7.2.1 – Describe at least two institutional best practices

1.The already existing mentor programme was given a change to improve the teaching learning process, the change was an investment of time, energy and thought from both the Mentee and the Mentor and to improve the relation between the Mentee and a Mentor. This Provides both with opportunities to share talents, skills, experiences and expertise. Focussing on the growth and development the objectives of the Mentee, was supplemented through regular training and on-going coaching and feedback from managers. Mentoring IS NOT Random – it is planned and structured. Forging an effective mentoring relationship involves one-on-one meetings, follow-up and on-going evaluation of progress toward meeting learning objectives. For everyone - the time invested in effective mentoring experiences is substantial and the readiness to commit to that investment is driven by a variety of factors including development needs and current responsibilities. 2. In tune with Nation's vision of nurturing self-employability through the attitude of Entrepreneurial ventures and start-ups, rather than job-seeking. Jyothi Engineering College had inaugurated the activities of Entrepreneurship Development Cell for this academic year with an objective to build strong brand presence among the industry by constantly interfacing and interacting with the stakeholders. Jyothi IEDC helps the students by imparting need-based training to enhance employability and entrepreneurship. For the benefit of the students, various events were conducted through IEDC such as Microsoft Student partner and App development, Azure - Microsoft Cloud and "sell me the answer" . Jyothi IEDC also received funding from KSUM towards "Startup Boot Camp" under this, our college in association with Openfuel.org jointly organized a workshop on "Startup i3". The cell is involved in grooming the entrepreneurship cell in the near future.

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 tasks associated with technical roles. The aim is to improve the confidence among the students and make them more valuable candidates as employers. It also helps in improving the technical skills which are often better at multi task challenging and complex roles. The college encourages students in participating in different technical skill development workshops, competitions, technical fest etc that create a platform for excelling their skills. INNOVATION AND ENTREPRENEURSHIP DEVELOPMENT CELL (IEDC) started in 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 is planning to start a mini fab lab(mini fabrication laboratory) with support of APJ Abdul Kalam Technological university and Kerala Startup Mission(KSUM) in the college campus to encourage students to do their projects using the facilities of the lab. Add-on Courses were aimed at giving students an advancement in the highly competitive job market by empowering them with skills that they wouldnt have obtained from an honours or integrated programme.

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 conformity with the principles of OBE. 3. NBA accreditation visit 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.