## **COLLEGE OF ENGINEERING VADAKARA**

Mandarathur P.O, Kozhikode District, Kerala673105

Affiliated to

A P J Abdul Kalam Technological University Kerala

(Approved by All India Council for Technical Education, New Delhi)



College of Engineering Vadakara

## The Annual Quality Assurance Report (AQAR)

Submitted To

NATIONAL ASSESSMENT & ACCREDITATION COUNCIL

### BANGALORE

2018

#### <u>The Annual Quality Assurance Report (AQAR) of the IQAC</u> (For Affiliated/Constituent Colleges)

Institutions Accredited by NAAC need to submit an Annual self-reviewed progress report i.e. Annual Quality Assurance Report (AQAR) to NAAC, through its IQAC. The report is to detail the tangible results achieved in key areas, specifically identified by the IQAC at the beginning of the Academic year. The AQAR period would be the Academic Year. (For example, July 1, 2017 to June 30, 2018)

#### <u>Part – A</u>

#### **Data of the Institution** (data may be captured from IIQA)

1. Name of the Institution	:	College of Engineering, Vadakara
• Name of the Head of the institution	:	Dr.N.K. Narayanan
Designation	:	Principal
• Does the institution function from own camp	pus :	Yes
• Phone no./Alternate phone no.	:	0496-2537225
• Mobile no.	:	9446955830
Registered e-mail	:	principal@cev.ac.in
Alternate e-mail	:	citvcape@gmail.com
• Address	:	Kurunthodi, P.O Mantharathur, Vadakara
• City/Town	:	Vadakara
• State/UT	:	Kerala
• Pin Code	:	673105
<b>2.</b> Institutional status:		
Affiliated / Constituent	:	Affiliated
• Type of Institution: Co-education/Men/Womer	n :	Co-education
• Location : Rural/Semi-urban/Urban	:	Urban

• Financial Status: Grants-in aid/ UGC 2f and 12 (B)/ Self financing					
(please specify)	:	Govt. Self Financing			
• Name of the Affiliating University	:	APJ Abdul Kalam Kerala			
		Technological University (KTU)			
• Name of the IQAC Co-ordinator	:	Dr. Smitha CK			
• Phone no.	:	9747605515			
Alternate phone no.	:				
• Mobile	:	9747605515			
• IQAC e-mail address	:	iqac@cev.ac.in			
Alternate Email address	:	citvcape@gmail.com			
3. Website address Web-link of the AQAR (http://www.cev.ac.in	: n/AQAR20	www.cev.ac.in 017-18.pdf <u>)</u>			

4. Whether Academic Calendar prepared during the year? : Yes

Yes/No...., if yes, whether it is uploaded in the Institutional website:

Weblink: ( http://www.cev.ac.in /Academic calendar\_evensem18-19.doc)

#### **5.** Accreditation Details:

Cycle	Grade	CGPA	Year of Accreditation	Validity Period
1 <sup>st</sup>	B+	2.54	2017	from:27/11/20172017 to: 26/11/2022

#### 6. Date of Establishment of IQAC

: 11/11/2014

#### 7. Internal Quality Assurance System

Title of the quality initiative by IQAC	Date & duration	Number of participants/beneficiaries
IQAC Meeting	20/11/17	7 Members
Discussion on AQIS proposal	24/11/2017	8 HoDs
Applied for FDP and RPS to AICTE	Dec 2017	2 from each department
Pre placement Interview training, Mock test etc for final year students	14/3/17 to 27/3/17	100
IQAC Meeting	19/07/18	8 members
Review of all Final year projects through R & D department	3 <sup>rd</sup> , 4 <sup>th</sup> 5 <sup>th</sup> , 8 <sup>th</sup> & 9 <sup>th</sup> of Oct 18	Complete s7 students

Title of the quality initiative by IQAC	Date & duration	Number of participants/beneficiaries
Students Participating in the Project contest	23/10/2018	Two students from CE department
Status of Consultancy Work in the Department	Entire semester	Concrete cube test for PWD, Ramco Cements, Soil test and Steel test for Kitco under Dept. of Civil Engg. Rs. – Rs.60,000
IQAC Meeting	21/12/2018	7 members
Academic Audit	One internal and one External audits per Semester 19/12/17,01/02/18 & 10/05/18	All Departments
ISO Upgradation	23 <sup>rd</sup> March 2018	College
Administrative audit	13 <sup>th</sup> 14 <sup>th</sup> & 15 <sup>th</sup> Nov 18 (3 days)	Administrative section

8. Provide the list of funds by Central/ State Government-

#### UGC/CSIR/DST/DBT/ICMR/TEQIP/World Bank/CPE of UGC etc. 114750

Institution/		Funding	Year of award with	
Department/Faculty	Scheme	agency	duration	Amount
		Central		
ECE	PMKY	Govt.	2017	7,65000
		Central		
CSE	PMKY	Govt.	2018	4,25000

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

**10.** No. of IQAC meetings held during the year : 3

The minutes of IQAC meeting and compliance to the decisions have been uploaded on the institutional website (Yes/No) : Yes

(Please upload, minutes of meetings and action taken report)

Website link : https://www.cev.ac.in/en/wpcontent/uploads/2018/12/IQAC\_Minutes\_Nov2017Dec-2018.pdf

- **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)
  - \* R & D projects review
  - \* Modal Exams
  - \* Registration of start-up- STEM by IEDC
  - \* Authorised centre for Kerala PSC Online Exam
  - \* ISO Renewal
  - \*Academic audit
- **13.** Plan of action chalked out by the IQAC in the beginning of the Academic year towards Quality Enhancement and the outcome achieved by the end of the Academic year

Plan of Action	Achievements/Outcomes		
IQAC has listed out all	As the events at college level and department		
academic events and formed	level are well planned, the effective execution		
academic calendar before the	of events are achieved as per the academic		
commencement of classes.	calendar.		
IQAC planned to develop the	Number of publications increased. 7		
research culture of Faculties	proposals submitted to SERD and 17		
and Students through paper	proposals submitted to KSCSTE.		
publications and project			
proposals.			
IQAC planned to motivate	College has applied for its own start up		
student's entrepreneurship skill.	namely "STEM".		

**14.** Whether the AQAR was placed before statutory body? : Yes

Name of the statutory body : IQAC Date of the Meeting: 21/12/2018

- **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/No: Yes

Year: 2018

**17.** Does the Institution have Management Information System? : Yes, the Institution has Campus Management System

If yes, give a brief description and a list of modules currently operational. (Maximum 500 words)

• Campus Management Software (CMS) enables monitoring of all academic activities of the institute.Campus Management System (CMS) software supports faculty in academic planning, teaching-learning organization and scheduling evaluation. Attendance, course plans and daily covered portions are entered in the CMS. The CMS provide the status of student's attendance and progress in teaching and is accessible to students, staff and parents. The quality of teaching-learning process is evaluated using feedback through CMS. The faculty feedback is conducted twice in a semester using CMS. This helps to identify individual areas of weakness and to take corrective measures towards it. Feedback data from CMS and suggestions and recommendations from students' interaction in course committee/ class committee meetings identifies the gap between the planning and its implementation. Internal marks are published on time, the information is communicated to parents through CMS.

The completed modules are

- Students Attendance Daily, Weekly, Monthly and consolidated reports
- Faculty Lesson Plan and Notes of lesson
- Faculty Profile : Basic and Additional
- Hostel Attendance
- Course entry, Subject allocation and Time table
- Students Profile
- Institution test : Result Analysis and Comparative Analysis
- University Result Analysis
- Online Feedback
- Department event details entry
- Auto mail generation
- SMS
- Students' Progress report generation
- Online Exam

Currently working on:

- Placement
- Office automation
- Online tests

#### <u>Part-B</u>

#### **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

Institution has the mechanism for well-planned curriculum delivery and implementation thorough the following measures: Institution prepares and publishes the academic calendar by listing all major activities of the academic year, in the Campus Management Software (CMS) well in advance. Department activities are planned and executed accordingly. Subject allocation and Timetable preparation are completed minimum three weeks prior to the commencement of each semester classes. Faculty prepares a detailed lesson plan including topics covered, hours allotted, tutorial classes planned, assignments to be given and special classes planed. Lesson plans, study materials, lab manuals and question banks prepared by the faculty are uploaded in the campus management software before the commencement of classes.

Monitoring and effectiveness of curriculum planning, delivery and documentation are done through class committee meetings, online teacher evaluation by student, internal and external academic audits, class PTA meetings and feedback from parents and alumni. Each class has a faculty advisor to monitor the conduct of classes and student performance. Institution has an effective mentoring system in which 20 students are being mentored by each faculty to motivate and support them in their academic activities. Remedial classes are arranged for academically weak students immediately after the first internal evaluation. Bridge courses and orientation classes are given for first year students. Orientation classes are also given to the newly recruited faculty of the Institution. Two series examinations and one model examination is conducted internally in each semester to evaluate student performance and the results are published in the CMS which can be accessed by both students and parents. Daily attendance of the students are also avail in CMS. Department level scrutinizing committee is constituted to scrutinize series exam question papers. Availability of text books and reference books for all courses are ensured before the commencement of classes. NPTEL video lectures and e-journals are made available through the digital library and campus network. Department level association activities and technical events conducted by professional

bodies like IEEE, CSI, ISTE etc. contributes in enriching the technical and professional skill of students.

#### **Curriculum Implementation**

**Class committee meetings:** Three class committee meetings are organized twice per semester to get student feedback on curriculum implementation and coverage.

**Class PTA meeting:** One class PTA meeting is arranged in each semester to interact with parents. Progress reports are given to parents and feed backs are collected from them.

Assignments and tutorials: Minimum three assignments are given for each courses to improve application and problem solving skill of students. Weekly one period tutorials are given for courses prescribed by university, one faculty is assigned to twenty students to improve effectiveness and concept.

**Series tests and model exam:** Two series exams covering 2 modules per subject are conducted during a semester. A model exam covering entire syllabus is conducted at the end of each semester to make the student well prepared for university exams.

**Remedial classes:** Remedial classes are arranged for slow learners, immediately after first series exam. Subject experts are appointed to handle remedial classes.

Name of the	Name of the	Date of	focus on	Skill
Certificate Course	Diploma	introduction and	employability/	development
	Courses	duration	entrepreneurs	
			hip	
PMKY	CCTV	February 2018,	Employability	CCTV
		360 Hrs		installation
		November 2018,		
		360 Hrs.		
PMKY	Data Entry	December 2018,	Employability	Data entry skill
	operator	400 Hrs		
Data base	NPTEL	Aug-Sep 2018	Employability	Data base skill
management		8weeks		
system				
Machine learning	NPTEL	Aug-Sep 2018	Employability	Machine learning
		8weeks		algorithm
				development

#### 1.1.2 Certificate/ Diploma Courses introduced during the Academic year

#### **1.2 Academic Flexibility**

#### 1.2.1 New programmes/courses introduced during the Academic year : NIL

	Date of Introduction	Course	Date of Introduction
Programme		with	
with Code		Code	
	Nil		

## **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	UG	PG	Date of implementation of CBCS / Elective Course System	UG	PG
B.Tech	CE, EE, EC, EI, CS & IT		2012 onwards		
MCA		<b>v</b>	2012 onwards		
Already adopted	1			L	_1

## **1.2.3** Students enrolled in Certificate/ Diploma Courses introduced during the year : PMKY, NPTEL

	Certificate	Diploma Courses
No of Students	27	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
Artificial intelligence	October 2018	60
workshop		
Expert talk on Engineering	24 th September 2018	180
perspectives on Cybercrime		
investigation		
A digital marketing	13 <sup>th</sup> September,2018	78

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

Sl No	Project / Programme Title	Name of Industry/ Institute	Duration of Intern ship	No. of Students Enrolled for Field Projects / Internshi ps			
	Department of Computer Science & Engineering						
1	Internship on java		One week				
	programming	KELTRON, Calicut		18			
2	One week Internship		One week				
	on Machine learning	KELTRON ,Kannur		20			
3	Internship on Android	Bodhi info solutions, Calicut	5 DAYS	39			
4	Industrial training on	Emmu Food Products,	5 DAYS				
	In-plant Training	Kannur		10			

Sl No	Project / Programme Title	Name of Industry/ Institute	Duration of Intern ship	No. of Students Enrolled for Field Projects / Internshi ps
5	Internship in Web		5 Days	<b>r</b> ~
	Development	HEDONE, Kannur	10.1	12
6	Android development	RISS Technologies	10 days	4
7	asp .net c# development	Bodhi info solutions pvt.ltd.	15 days	10
8	Introduction to java programming,Android development	Keltron knowledge center kozhikode	15days	20
9	Information and cyber security	Livewire	20days	10
10	.net technologies	STAN softech pvt ltd	15days	1
11	Web development	vapptek softech solutions pvt. ltd.	30days	1
12	Web development	Runtime solutions	3days	1
13	php	Ipsr solutions	10days	1
	Departme	ent of Electronics & Instrume	ntation	
1	Internship on Instrumentation		Two week	8
2	Practices	Camino Infotech, Cochin	5 dava	5
3	Industrial Training	KSEB westHill	5 days	5
<u> </u>	Industrial Training Industrial Training	KSEB westHill	5 days 5 days	5
5	Android Internship Program	KSEB westHill ENZAPPS Software Solutions(KINFRA)	7 days	4
6	Internship	Rubco Huat Woods Pvt Ltd Thalassery	5 days	5
7	Industrial Training	Auto soul Technologies Pvt Ltd	5 days	3
8	Industrial Training	BSNL	15 days	3
9	Industrial Training	Enzapps Software Solutions, Kinfra	5 days	1
10	Industrial Training	JC VALVES, UAE	14 days	3

Sl No	Project / Programme Title	Name of Industry/ Institute	Duration of Intern ship	No. of Students Enrolled for Field Projects / Internshi ps
11	Industrial Training	Keltron, Kannur	5 days	15
12	Industrial Training	Keltron, Kozhikode	5 days	6
13	Industrial Training	Kerala State Electronics Development Corporation Ltd.	5 days	1
14	Industrial Training	Kinfra techno industrial park	5 days	5
15	Industrial Training	PANTECH ProEd Pvt Ltd ,Cochin	5 days	4
		Department of Civil Engineering		
1	Industrial Training	ULCCS Pvt. Ltd. Kozhikode	4 days	3
2	Industrial Training	C-tech Builders, maniyur	5 days	1
3	Industrial Training	Camino Info-tech, Kakkanad, Kochi	15 days	4
4	Industrial Training	Kerala PWD, Special Buildings Sub Division, Kozhikode	5 days	6
5	Industrial Training	Kaippangani Construction, Wayanad	15 days	1
6	Industrial Training	Kerala PWD, Kozhikode	5 days	10
7	Industrial Training	Madikkai Panjayath Office	6 days	5
8	Industrial Training	Home Tech Building Designers, Idukki	5 days	1
9	Industrial Training	NEC, Payyoli	6 days	2
10	Industrial Training	Mohammad Jalal, Bahrain	One month	1
11	Industrial Training	ULCCS, Westhill	5 days	4
12	Industrial Training	Cochin Builders, Chittoor	7 days	1

Sl No	Project / Programme Title	Name of Industry/ Institute	Duration of Intern ship	No. of Students Enrolled for Field Projects / Internshi ps			
13	Industrial Training	KSEB, Kozhikode	5 days	1			
14	Industrial Training	ULCCS Vadakara	5 days	14			
15	Industrial Training	Streamline Consortium, Calicut	25 days	5			
16	Industrial Training	District Nirmithi kendra	5 days	3			
	Depart	ment of Information Technol	ogy				
1	Python Programming	Keltron ,Calicut	5 days	13			
2	Internet Of Things	Info Campus, Calicut	6 days	17			
3	Android Development	Keltron ,Calicut	5 days	2			
4	Telecommunication	BSNL,Kannur	5 days	1			
5	Internet Of Things	BITSFORG,Cochi	10 days	3			
6	Android Application Development	RIS Technologies, Calicut	10 days	2			
7	DOT NET with sql	Safe Technologies, Palakkad	15 days	1			
8	Web Designing	Regional Technologies, Calicut,	5 days	5			
9	Basics of HTML,CSS,CS,SQL & Web design	Keltron Knowledge Centre, Kannur,	6 days	5			
10	Basics of Electronics, C Programming, IOT & Raspberry pi	UL Cyberpark, Calicut,	5 days	12			
11	РНР	KELTRON IT Education Centre, Calicut	6 days	5			
	Department of Electronics & Communication Engineering						
1	Industrial Training	All India Radio, Calicut	5 Days	12			
2	Industrial Training	All India Radio, Kannur	5 Days	5			
3	Industrial Training	Athmaja Industries	5 Days	2			
4	Internship	BHUMI	30 Days	1			

Sl No	Project / Programme Title	Name of Industry/ Institute	Duration of Intern ship	No. of Students Enrolled for Field Projects / Internshi ps
5	Industrial Training	BSNL, Calicut	6 Days	1
6	Industrial Training	Camino Infotech , Cochin	15 Days	16
7	Internship	Centre For Development Of Advanced Computing (C- DAC), Thiruvananthapuram	10 Days	1
8	Industrial Training	Cochin Shipyard Limited.	15 Days	2
9	Industrial Training	Emmu Food Products	6 Days	4
10	Industrial Training	KELTRON	6 Days	40
11	Industrial Training	Ordnance Factory Tiruchirappalli, Tamil Nadu	7 Days	1
	Departme	ent of Electrical & Electronics	Engg	
1	Industrial Training	KSEB	5days	9
2	Industrial Training	KELTRON KANNUR	5 days	27
3	Industrial Training	L& T	10 days	1
4	Industrial Training	INFO CAMPUS	5 days	2

#### 1.4 Feedback System

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

1) Students	2) Teachers	3) Employers	4) Alumni	5) Parents
Yes	Yes	Yes	Yes	Yes

#### **CRITERION II - TEACHING-LEARNING AND EVALUATION**

#### 2.1 Student Enrolment and Profile

#### 2.1. 1 Demand Ratio during the year 2018-2019

Name of the Programme		Number of availab		Number of applications received	Student	s Enrolled
C	0	60		received		50
	2S	60				49
C		30				10
EE		60		*		27
E		60				20
E		30				3
M		60				5
		and seats are fill	ed through c	entralised allo	tment. En	-
	ner, Govt. of Ke		eu unougn e	endunised uno		ununee
2.2 Catering to S						
		r ratio (current y	ear data)			
Year	Number of students enrolled in the institution (UG)	students enrolled in the institution (PG)	Number of fu time teachers available in t institution teaching only courses	teachers a he in the inst teaching o	titution	Number of teachers teaching both UG and PG courses
2018-2019			46 80		12	
_	e of teachers usi	ess ng ICT for effector sources etc. (curr		-	ng Manag	gement
	Number of	ICT tools and	Number		of E-r	esources
teachers on	teachers	resources	ICT	smart	and	1
roll	using ICT	available	enabled	classroo	ms tecl	hniques
	( <i>LMS</i> , <i>e</i> -		classroon	ns	use	-
	Resources)					
	92	NPTEL	25	25		-books
		• SMART				ech Talk
		Class Rooms				nline Test
		Animation				Aptitude &
		and Graphics				echnical)
		• Open source				ideo
		software such				ectures
		as Liduntii Li			• Q	
		UBUNTU,LI				rain
		NUX				orming
		MINT CENT				
		MINT,CENT				iscussion
		MINT,CENT OS,			Fe	iscussion orum -Learning

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

A group tutor is assigned for every 20 students for their academic and personal guidance. The students can approach the respective mentor for discussions any time, this helps the students to get over their difficulties during learning. The duty of the faculty is not only to maintain discipline but also to redress the grievances of the students through proper mentoring system. Counselors /advisors are assigned to each class or group of students in all departments in accordance with the guidance given by the HOD. Academic mentoring is done by the faculty. The main duty of this advisor or counselor is to carefully monitor the student activities like regularity of attendance, the performance of the students in internal and external tests and semester examinations. Students are advised with remedial classes which help to improve their caliber. The mentor acts as a true friend and guide to the students. Remedial Classes are arranged for slow learners which helps weak students to score better marks. In addition to this there is a strong mentoring system to boost the confidence of the slow learners. The faculty interacts with the students and parents. The students are directed to meet the external counselor if needed. Two trained faculty of the institute are acting as counselors. Apart from this an external counselor visits college twice in a week. The mentoring report is maintained and monitored by the HOD and the Principal.

Number of students enrolled in the institution	Number of fulltime teachers	Mentor: Mentee Ratio
990	92	1:11

2.4 Teache	r Profile and	Quality					
2.4.1 N	Number of full	time tea	achers appoint	ed during the	e year		
No. of	No. of	filled	Vacant positio	ons Positio	ns filled	No. of faculty with	
sanctioned	positio	ns	during th		the	Ph.D	
positions				current	year		
92	9	2	NIL	1	NIL	7	
2 4 2 Hono	urs and racad	nitions r	eceived by tea	chore · Nil			
	0		•		tional loval	from Government,	
	odies during th		snips ai Siaie, No	illonai, Interna	iionui ievei	Jrom Governmeni,	
Year of	-				Name of the award, fellowship,		
award			-	received from Government or			
	international l					ed bodies	
2.5 Evalua	tion Process a	nd Refo	rms				
2.5.1 Numb	per of days from	n the dat	e of semester-e	nd/ year- end	examinati	on till the declaration	
of results d	luring the year						
Program	Program	Semest	ter/ Last	date of the	Date of	declaration of	
Name	me Code	year	last s	emester-end/	results	of semester-end/	
		-	year-	• end	year- e	nd examination	
			-	ination	1		

All papers	I, III, V & VII Sem	24/11/2017	17/2/2018, 8/3/2018 , 28/3/2018 & 31/1/2018
All papers	II, IV, VI &VIII Sem	12/04/2018	1/8/2018, 8/8/2018, 4/11/2018 & 6/6/2018
All papers	I, III, V Sem	24/11/2017	18/06/2018,18/06/2018
All papers	II, IV, VI sem	12/04/2018	12/11/2018,17/11/2018
	All papers All papers	All papersVII SemAll papersII, IV, VI &VIII SemAll papersI, III, V Sem	All papersVII Sem24/11/2017All papersII, IV, VI &VIII Sem12/04/2018All papersI, III, V Sem24/11/2017

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

- Class tests are conducted in each module.
- The slow learners are identified and remedial classes are conducted.
- After completion of 1<sup>st</sup> internal assessment tests, parent teacher meetings are conducted.
- Viva voce exams are conducted during lab hours to assess practical skills of students.
- Tutorial conducted weekly helps in understanding concepts clearer.
- Assignments are given regularly to assess problem solving skill of students.
- Model exams are conducted for all courses after completion of syllabus
- The students who secured less than 75 % of attendance are asked to attend attendance monitoring committee meeting with their parents to take corrective action.
- During university paper evaluation, all faculties are assigned to value the answer scripts.

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

The College strictly follows an academic calendar. The calendar is made available before the beginning of every Semester, which helps the students, parents and teachers to plan their academic year. Each department functions according to the teaching plan and course plan prepared at the department level. The course work is distributed to every faculty member by the head of the department. The faculty members follow a lesson plan which consists of the details regarding institutional objectives and details of contents to be covered. The following activities are implemented according to the schedule of academic calendar.

- Class committee meetings.
- Internal assessments schedule.
- Syllabus coverage schedule.
- Project review schedule
- Academic audit.

#### 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 weblink : www.cev.ac.in/en/

**Program outcomes,** program specific outcomes and course outcomes for all programs are stated and displayed in institution website. As a sample, the weblink of Civil Engineering department is mentioned below.

www.cev.ac.in/civil.program

2.6.2 Pass perc	entage of students			
Programme Code	Programme name	Number of students appeared in the final year examination	Number of students passed in final semester/yea r examination	Pass Percentage
BTech	CE	65	63	96.9
BTech	EEE	59	32	54.2
BTech	EC	61	47	77.1
BTech	EI	44	30	68.2
BTech	CS	65	45	69.2
BTech	IT	37	27	73
MCA		61	61	100

#### 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)

The feedback forms collected from the students through CMS includes

- End of semester Course evaluation form
- Class Committee meeting minutes
- Exit interview Questionnaire
- Employee Questionnaire
- Alumni Association Questionnaire
- Feedback on Faculty

#### **CRITERION III – RESEARCH, INNOVATIONS AND EXTENSION**

#### 3.1 Resource Mobilization for Research : NIL , \*Applied

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

Nature of the	Duration	Name of the	Total grant	Amount received
Project		funding Agency	sanctioned	during the Academic
				year
Major projects				
Minor Projects				
Interdisciplinary				
Projects				
Industry sponsored				
Projects				
Projects sponsored				
by the University/				
College				
Students Research				
Projects				
(other than				
compulsory by the				
College)				
International				
Projects				

Any other(Specify)						
Total						
projects for SERD f	unding	ects proposals are submitte culty applied to KTU for e		inding and 7		
3.2 Innovation Ecosystem						
3.2.1 Workshops/Seminars C	onducte	d on Intellectual Property	Rights ( <b>IPR</b> ) ar	nd Industry-		
Academia Innovative practice	es durin	g the year : Nil	8	, and y		
List of Workshops/Seminars Title of Workshop/Semina				Date(s)		
Workshop on Artificial		Name of the Dept.				
Intelligence		ΓE CEV	20,2	7 October 2018		
Expert talk on Engineering perspectives on Cybercrime investigation	CS	I CEV chapter	24 S	eptember 2018		
Pre-Placement Training Programme		aining & Placement Cell		and 15th of ember 2018		
Pre-Placement Training Programme		aining & Placement Cell		5th and 11th of October 2018		
Workshop on Resume Building and Soft Skill		aining & Placement Cell	12,1	5 October 2018		
Workshop on Application Development on Django Framework		aining & Placement Cell	26-2	7 October 2018		
Pre placement training	Tra	aining & Placement Cell	26-2	26-27 October 2018		
Pre-Placement Training Programme		aining & Placement Cell		25/9/2017 to 27/9/2017		
GD Training & Interview Ti	os Tra	aining & Placement Cell	24/1	24/11/2017		
Mock Test & Career Guidand Session		aining & Placement Cell		14/3/2018		
Mock Test & Career Guidand Session	e Tra	Training & Placement Cell		27/3/2018		
Aptitude & Reasoning Training		Training & Placement Cell		19/11/2018 to 20/11/2018		
C – Programming		Training & Placement Cell		21/11/2018		
Workshop on "She can Code	' IEI	EE WIE chapter	8/3	8/18		
3.2.2 Awards for InnovationTitle of the innovationName of Award	the	Institution/Teachers/Rese Awarding Agency	arch scholars/Stu Date of Award	dents during		
		College of		1 <sup>st</sup> Price		
Pantheon- Techfest Wariz and Suhail		Engineering Thiruvananthapuram				
of S7 C						

	cubation cer	ntre created, sta	art-ups ir	cubated on car	mpus d	uring	the year	
Incubation		Name			Spon	sored	by	
Centre							- 5	
Name of								
the Start-up	Nat	ure of Start-up		Dat	te of co	mme	ncement	
		ce Software an	d				istration	
STEM		naintenance	u	Υ.p		1105	Budion	
3.3 Research	Publication	ns and Awards	: Nil					
		hers who receiv		nition/awards				
State	National		<u>U</u>	International				
3.3.2 Ph. Ds a	warded duri	ng the year (ap	plicable	for PG Colleg	e, Rese	arch (	Center)	
Name of		· A	_				,	
Departme	ent		N	o. of Ph. Ds Av	varded			
3.3.3 Researc	h Publication	ns in the Journa	als notifie	ed on UGC wel	bsite du	uring t	he year	
							Average In	npact
		Department	N	o. of Publication	on		Factor, if	any
Nationa								
Internatio	nal							
National/Inter		s in edited Volu nference Proce		er Teacher dur	ing the	year		
	1			NO. C	of publi	catioi	1	
	MCA				4			
	CS				6			
	CE				1			
	-	ublications durin	0	•	based or	n avera	age citatior	index
Title of the pap	er	Name of the	Title	of the journal	Yea	Cit	Instituti	
		author			r of	atio	onal	Numb
					publ	n T	affiliatio	er of
					icati	Ind	n as	citatio
					on	ex	mention ed in the	ns excludi
							publicati	ng self-
							on	citatio
								ns
					0.017			
Cyberspace in		Mr. Vijith T		rnational	2018			
School Educa	tional		Jour	nal of Pure				
System: A M	odel Cyber		and	Applied				
Protocol in th	e Indian		Mat	hematics,				
Context			Aca	demic				
		1	1		1	1	1	

Review on Automated	Ms. Deepa R	Publications, ISSN: 1314-3395, 118(16) International	2018		
Detection and Classification of Diabetic Retinopathy		Journal on Engineering Technology and Sciences (IJETS)			
Current research issues in web data mining: A survey	Ms. Rajalakshmi K D	National conference on recent trends and advances in the field of information technology at KarpagamAcade my of Higher Education, Coimbatore	2018		
ROBE- Encryption Protocol for Secure Mobile Cloud Computing,	Ms.shibili T	National Conference on Electrical, Communication and Applied Electronics (NCECAE -2018), Mar. 22 – 23, 2018, Calicut, INDIA	2018		
STEGANOPIN : A Secure Pin Authentication Method,	Ms. Aruna a S	National Conference on Electrical, Communication and Applied Electronics (NCECAE -2018), Mar. 22 – 23, 2018, Calicut, INDIA	2018		
LUNG CANCER DETECTION USING IMAGE PROCESSING TECHNIQUES : A	Ms. Sithara E P	National Conference on Electrical, Communication and Applied	2018		

	ſ			[	
LITERATURE SURVEY,		Electronics (NCECAE -2018), Mar. 22 – 23, 2018, Calicut, INDIA			
AUTOMATIC DETECTION AND BLOCKING OF SPAM MESSAGES IN SOCIAL MEDIA,	Ms.Akhila M	National Conference on Electrical, Communication and Applied Electronics (NCECAE -2018), Mar. 22 – 23, 2018, Calicut, INDIA	2018		
Survey on Skin Lesion Analysis towards Melanoma Detection.	Ms.Sreena S	IJCSE Vol 6 issue 5 May 2018	2018		
SECURE DATA DEDUPLICATION WITH DYNAMIC OWNERSHIP MANAGEMENT IN CLOUD STORAGE,	Ms.Meera chandran	National Conference on Electrical, Communication and Applied Electronics (NCECAE -2018), Mar. 22 – 23, 2018, Calicut, INDIA	2018		
"Behavior of Single Skirted Footing Model Resting on Non-Uniform Soil",	Shabana Salih K	Electronic Journal of Geotechnical Engineering, Vol. 22 [2017], Bund. 10. Page: 4109 - 4126.	2017		
"A Model of Legal and Procedural Framework for Cybercrime Investigation in India Using Digital Image Forensics"*,	Vijith T K	Advances in Intelligent Systems and Computing, Springer, Singapore, ISSN: 2194-5357, doi:			

10	0.1007/978-981-		
10	0-5520-1_16,		
20	018		

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

paperauthorjournalpublicati oncitationsl affiliation as citationsiiiiiiiiiiiiiiiiiiiiiiiiiii							
on     excluding self- citations     as       in the     in the	Title of the	Name of the	Title of the	Year of	h-index	Number of	Institutiona
citations mentioned in the	paper	author	journal	publicati		citations	l affiliation
in the	1			on		excluding self-	as
	1					citations	mentioned
	1						in the
	1						publication
	1						

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

No. of Faculty	International level	National level	State level	Local level
Attended Seminars/ Workshops	45	7		
Presented papers	1			
Resource Persons		10	8	2

#### **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 co-ordinated such activities	Number of students participated in such activities
Packing of food provisions to distribute in flood relief camps	DTPC centre Kozhikode	6 teachers	50 students
Survey to evaluate loss in Maniyur panchayath	Maniyur panchayath	3 Teachers	100
Survey to evaluate loss in Changaroth panchayath	Changaroth panchayath	3 Teachers	100
Survey to evaluate loss in Velam panchayath	Velam panchayath	Velam panchayath	50

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

Name of	Award/recognition	Awarding bodies	No. of Students benefited
the	_		
Activity			

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

scheme	8 8		Name of the activity	teac coor	nber of hers rdinated su vities	ch	Number of students participated in such activities	
3.5 Collaboration	ons							
	Collaborative ac	tivities	for research	, faculty e	xchange, s	tude	nt exchange	
during the year Nature of Activity		ticipan	t	fina	ce of ncial port		Duration	
	vith institutions/in ch facilities etc. o			-	•			
Nature of linkage	Title of the linkage	ins	ne of the part stitution/ ind arch lab with	ustry	Duratio (From-T		participant	
Letter of     Placement     TCS       Interest     training using       online classes       and online       exams			<u>details</u>		Dec 201 one yea			
3.5.3 MoUs sign industries, corpo	ed with institutio					othe	er universities,	
		_	-				ſ	
Organisation	Date of M	_	-		nd Activi	ties	ers participated	
		IoU si	gned I ears	Purpose a To use c facility fo		ıb	students/teach ers	
Organisation TCS CRITERION I 4.1 Physical Fac	Date of M Jan 2017 V – INFRASTR cilities	<b>10U si</b> 7 to 3 ye <b>UCTU</b>	gned I ears RE AND LE	To use c facility fo of on <b>ARNING</b>	omputer la r the condu line tests <b>RESOUI</b>	ıb uct RCE	students/teach ers participated under MoUs S	
Organisation TCS CRITERION I 4.1 Physical Fa 4.1.1 Budget allo Budget allo	Date of M Jan 2017 V – INFRASTR cilities ocation, excluding cated for infrast	foU si 7 to 3 ye UCTU g salary	gned I ears RE AND LE y for infrastru	To use c facility fo of on ARNING	omputer la omputer la r the condu line tests <b>RESOUI</b> mentation <b>tilized for</b>	ıb uct RCE durir infr	students/teach ers participated under MoUs S S ng the year astructure	
Organisation TCS CRITERION I 4.1 Physical Fa 4.1.1 Budget allo Budget allo	Date of M Jan 2017 V – INFRASTR cilities ocation, excluding	foU si 7 to 3 ye UCTU g salary	gned I ears RE AND LE y for infrastru	To use c facility fo of on ARNING	omputer la r the condu line tests <b>RESOUI</b> mentation	ıb uct RCE durir infr nent	students/teach ers participated under MoUs S S ng the year astructure	
Organisation TCS CRITERION I 4.1 Physical Fac 4.1.1 Budget allo Budget allo a 4.1.2 Details of a	Date of M Jan 2017 V – INFRASTR cilities ocation, excluding cated for infrast augmentation	to 3 ye UCTU g salary	gned     I       ears     I       ears     I       y for infrastru       y for infrastru       y for infrastru       ucture facilitie	Purpose a To use c facility fo of on ARNING cture augu Budget u es during	omputer la r the condu- line tests <b>RESOUI</b> mentation tilized for 6,72,1	ıb uct durir infr nent 64	students/teach ers participated under MoUs S S ng the year astructure	
Organisation TCS CRITERION I 4.1 Physical Fa 4.1.1 Budget allo Budget allo a 4.1.2 Details of a Facilities	Date of M         Jan 2017         V – INFRASTR         cilities         ocation, excluding         ocated for infrast         augmentation         Rs.10,00,000         augmentation in i	to 3 ye UCTU g salary	gned I ears RE AND LE y for infrastru re ucture facilitie	Purpose a To use c facility fo of on ARNING cture augu Budget u Budget u es during Existing	omputer la r the condu- line tests <b>RESOUI</b> mentation tilized for 6,72,1	ıb uct durir infr nent 64	students/teach ers participated under MoUs S s ng the year astructure	
Organisation TCS CRITERION I 4.1 Physical Fac 4.1.1 Budget allo Budget allo a 4.1.2 Details of a	Date of M         Jan 2017         V – INFRASTR         cilities         ocation, excluding         ocated for infrast         augmentation         Rs.10,00,000         augmentation in i         n.m)	to 3 ye UCTU g salary	gned   I     ears   I     ears   I     y for infrastru     y for infrastru     y for infrastru     ucture facilitie	Purpose a To use c facility fo of on ARNING cture augu Budget u es during	omputer la r the condu- line tests <b>RESOUI</b> mentation tilized for 6,72,1	ıb uct durir infr nent 64	students/teach ers participated under MoUs S S ng the year astructure	

429.42	
25	
27	
4	
1	
nil	
nil	
	25 27 4 1 nil

**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)			Vers	sion	Year of automation	
КОНА	Fully			3.10		2012	,
4.2.1 Library Services:							
	Exi	sting	N	ewly	added	Т	otal
	No.	Value	N	0.	Value	No.	Value
Text Books	18544	6786382	200	000	813668	20544	7600050
Reference Books	2762	897264	190		136549	2952	1033813
e-Books	419	519000	-		-	419	519000
Journals	47	142075					
e-Journals	3	319843					
	packages						
Digital Database							
CD & Video	1000	-	500		-	1500	
Library automation	KOHA						
Weeding (Hard & Soft)	14-						
	HARD						
Others (specify)							

40155 1	1 77	1	11\						
4.3.1 Tech	nology Upgi						_		
	Total Computer s	Compute r Labs	Internet	Browsing Centres	Computer Centres	Offic e	Depart ments	Available band width (MGBPS)	Others
Existing	515	17	17	1	1	1	7	100/1000Mbps	
Added			15						
Total	515	17	17	1	1	1	7		
4.3.2 Band	width availa	ble of inter	net connec	tion in the	Institution (I	Leased 1	ine)		
100 MBPS	5								
4.3.3 Facil	lity for e-cor	ntent							
	e e-content		nt facility	Provi	ide the link o	of the vi	deos and	media centre ar	nd
		-	•	recor	ding facility	7			
NPTEL Vi	deo Course,	Other Libra	ary Links	Avai	lable in colle	ege intra	net		
E-Book W	ebsites								
				<b>F</b> ~ -		<u>a (                                    </u>	<b>F</b> ~ =		
								athshala CEC (	
,			-			y other (	Governm	ent initiatives &	ζ
Name of t	al (Learning	management ame of the providence of the providen				- <b>1</b> -	Dete	- <u>6 1 1.                         </u>	
teacher	ne INa	ime of the	module		form on whi lule is develo		conte	of launching e	-
teacher				IIIOu	ule is develo	peu	Conte	111	
4 4 Mainte	nance of C	ampus Infr	structur	<u>م</u>					
ToT MANN		ampus mu							
					l facilities an	d acade	mic sunn	ort facilities	
4.4.1 Expe	nditure incu	rred on ma	intenance o	of physical	l facilities an	d acade	mic supp	ort facilities,	
4.4.1 Expe excluding	nditure incu salary comp	rred on mar onent, durin	intenance on the sear	of physical					on
4.4.1 Expe excluding s Assigned	nditure incu	rred on mai onent, durin <b>Expendit</b>	intenance o	of physical : red Ass	igned budge		Expend	liture incurred	
4.4.1 Expe excluding s Assigned	nditure incu salary compo <b>budget on</b>	rred on ma onent, durin Expendit on main	intenance on the sear <b>ure incurr</b>	of physical : red Ass f o			Expend		
4.4.1 Expe excluding s Assigned academic	nditure incu salary compo <b>budget on</b>	rred on ma onent, durin Expendit on main academ	intenance on the year of the y	of physical : red Ass f o	igned budge n physical		Expend	liture incurred nance of physi	
4.4.1 Expe excluding s Assigned academic 2012	nditure incu salary compo budget on c facilities	rred on ma onent, durin Expendit on main academ 15	intenance o ag the year <b>ure incurr</b> ntenance o <u>iic facilitie</u> 20977	of physical : red Ass f o s	igned budge n physical facilities 7525000	et	Expend mainte	liture incurred nance of physi facilities	cal
4.4.1 Expe excluding s Assigned academic 2012 4.4.2 Proc	nditure incu salary compo budget on c facilities 23700 cedures and	rred on main onent, durin Expendit on main academ 15 policies fo	intenance o ag the year ure incurr ntenance o nic facilitie 20977 r maintain	of physical ed Ass f o s ing and uti	igned budge n physical facilities 7525000 lizing physic	et al, acad	Expend mainte emic and	liture incurred nance of physi facilities 5173902 support faciliti	cal
4.4.1 Expe excluding s Assigned academic 2012 4.4.2 Proc laboratory,	nditure incu salary compo budget on c facilities 23700 cedures and	rred on main onent, durin <b>Expendit</b> on main academ 15 policies fo orts complex	intenance o ag the year <b>ure incurr</b> <b>ntenance o</b> <b>nic facilitie</b> 20977 r maintain , computer	of physical ced Ass f o s ing and uti s, classroor	igned budge n physical facilities 7525000 lizing physic	et al, acad mum 50	Expend mainte emic and	liture incurred nance of physi facilities 5173902	cal
4.4.1 Expe excluding s Assigned academic 2012 4.4.2 Proc laboratory, available in	nditure incu salary compo budget on c facilities 23700 cedures and library, spo n institutiona	rred on main onent, durin <b>Expendit</b> on main academ 15 policies fo orts complex al Website,	intenance o ag the year <b>ure incurr</b> <b>ntenance o</b> <b>ic facilitie</b> 20977 r maintain , computer provide lin	of physical red Ass f o s ing and uti s, classroor k) : v	igned budge on physical facilities 7525000 lizing physic ns etc. (maxi vww.cev.ac.i	et al, acad mum 50	Expend mainte emic and 00 words	liture incurred nance of physi facilities 5173902 support faciliti	cal es - to be
4.4.1 Expe excluding s Assigned academic 2012 4.4.2 Proc laboratory, available in The	nditure incu salary compo- budget on a facilities 23700 cedures and library, spo- n institutiona e College ca	rred on main onent, durin Expendit on main academ 15 policies fo orts complex al Website, mpus is spi	intenance o ag the year ure incurr ntenance o nic facilitie 20977 r maintain , computer provide lin read over a	of physical red Ass f o s ing and uti s, classroor k) : v an area of	igned budge in physical facilities 7525000 lizing physic ns etc. (maxi vww.cev.ac.i 21 acres of	et al, acad mum 50 in land. It	Expend mainte emic and 00 words) has an a	liture incurred nance of physi facilities 5173902 support faciliti (information	cal es - to be lock, 4
4.4.1 Expe excluding s Assigned academic 2012 4.4.2 Proc laboratory, available in The department	nditure incu salary compo- budget on a facilities 23700 cedures and library, spon n institutiona e College ca t blocks, 5	rred on main onent, durin <b>Expendit</b> on main academ 15 policies fo orts complex al Website, impus is spi workshop	intenance o intenance o intenance o ic facilitie 20977 r maintain , computer provide lin read over a buildings	of physical red Ass f o s ing and util s, classroor k) : v an area of , Canteen	igned budge in physical facilities 7525000 lizing physic ns etc. (maxi vww.cev.ac.i 21 acres of and Subst	et al, acad mum 50 in land. It ation.	Expend mainte emic and 00 words) has an a The coll	liture incurred nance of physi facilities 5173902 support faciliti (information dministrative b	cal es - to be lock, 4 ademic
4.4.1 Expe excluding s Assigned academic 2012 4.4.2 Proc laboratory, available in The department	nditure incu salary compo- budget on a facilities 23700 cedures and library, spo- n institutiona e College ca t blocks, 5 ts with adeq	rred on main onent, durin <b>Expendit</b> on main academ 15 policies fo orts complex al Website, impus is spi workshop uate physica	intenance o ag the year ure incurr ntenance o nic facilitie 20977 r maintain , computer provide lin read over a buildings al facilities	of physical red Ass f o s ing and uti s, classroor k) : v an area of , Canteen and infras	igned budge in physical facilities 7525000 lizing physic ns etc. (maxi vww.cev.ac.i 21 acres of and Subst structure for	et al, acad mum 50 in land. It ation.	Expend mainte emic and 00 words) has an a The coll ting acad	liture incurred nance of physi facilities 5173902 support faciliti (information dministrative b ege has 7 ac. emic programn	es - to be lock, 4 ademic
4.4.1 Expe excluding s Assigned academic 2012 4.4.2 Proc laboratory, available in The department administrat	nditure incu salary compo- budget on a facilities 23700 cedures and library, spon a institutionate college cat t blocks, 5 ts with adeq tive function	rred on main onent, durin <b>Expendit</b> on main academ 15 policies fo orts complex al Website, mpus is spi workshop uate physica	intenance o intenance o intenance o ic facilitie 20977 r maintain , computer provide lin read over a buildings al facilities cular and e	of physical red Ass f o s ing and util s, classroor k) : v an area of , Canteen and infras	igned budge in physical facilities 7525000 lizing physic ns etc. (maxi vww.cev.ac.i 21 acres of and Subst structure for cular activiti	et al, acad mum 50 in land. It ation. ' the exis es. All	Expend mainte emic and 00 words) has an a The coll ting acad the build	liture incurred nance of physi facilities 5173902 support faciliti (information dministrative b ege has 7 ac emic programm ings of the ins	cal es - to be lock, <sup>2</sup> ademic nes and
4.4.1 Expe excluding s Assigned academic 2012 4.4.2 Proc laboratory, available in The department administrat has newly	nditure incu salary compo- budget on a facilities 23700 cedures and library, spo- n institutiona e College ca t blocks, 5 ts with adeq tive function constructed	rred on main onent, durin Expendit on main academ 15 policies fo orts complex al Website, impus is spi workshop uate physica is, co-currie d ramp fac	intenance o intenance o intenance o ic facilitie 20977 r maintain , computer provide lin read over a buildings al facilities cular and e ility for v	of physical red Ass f o s ing and utility s, classroor k) : v an area of , Canteen and infrassi extra-currice vheel chai	igned budge in physical facilities 7525000 lizing physic ns etc. (maxi vww.cev.ac.i 21 acres of and Subst structure for cular activiti r or for the	et al, acad mum 50 in land. It ation. ' the exis es. All e easy	Expend mainte emic and 00 words) has an a The coll ting acad the build walking	liture incurred nance of physi facilities 5173902 support faciliti (information dministrative b ege has 7 ac emic programm ings of the ins Administrative	es - to be lock, <sup>2</sup> ademic nes and titutior block
4.4.1 Expe excluding s Assigned academic 2012 4.4.2 Proc laboratory, available in The department administrat has newly comprised	nditure incu salary compo- budget on a facilities 23700 cedures and library, spon institutionate college can t blocks, 5 ts with adequive function constructed of all class	rred on main onent, durin <b>Expendit</b> on main academ 15 policies fo orts complex al Website, mpus is spi workshop uate physica as, co-currica framp fac	intenance o ag the year ure incurrent intenance of ic facilitie 20977 r maintain , computer provide lin read over a buildings al facilities cular and e ility for w wing hall	of physical ced Ass f o s ing and util s, classroor k) : v an area of , Canteen and infras extra-curric vheel chai for 1st ye	igned budge in physical facilities 7525000 lizing physic ns etc. (maxi vww.cev.ac.i 21 acres of and Subst structure for cular activiti r or for the	et al, acad mum 50 n land. It ation. ' the exis es. All e easy computi	Expend mainte emic and 00 words) has an a The coll ting acad the build walking ing facili	liture incurred nance of physi facilities 5173902 support faciliti (information dministrative b ege has 7 ac emic programm ings of the ins Administrative ty and Library	cal es - to be lock, 4 ademic nes and titution block

College of Engineering Vadakara has 27 classes, 4 tutorial rooms, 2 drawing halls 59 laboratories. All the UG classrooms have a capacity to accommodate 60-70 students. All class rooms have ceiling mount LCD projectors, Lecture Stand, Uninterrupted Power Supply, wooden tables and wooden benches. Tutorial rooms can accommodate 30-35 students. Each department block has one tutorial room. Three department block have air conditioned a seminar halls equipped with ceiling mount

LCD projector, Lecture Stand, Uninterrupted Power Supply and Sound system. The Conference hall in administrative block is ideal for the meeting of 30 individuals. This employing cutting edge audio-visual, videoconferencing and distance-learning facilities.

The air conditioned Central Computing Facility has 50 terminals for the internet facility. Internet at 100 mbps is provided through dedicated OFC cable. Around 500 computers are in use in various departments and all are having internet facility.

The college having a registered co –operative store with all kinds of stationery materials required for students and staff at reduced price of the college. Basketball court, Shuttle badminton court and football/cricket court are available in the campus

The students are accommodated in Four Ladies Hostels with a capacity of 400. The construction work of Ladies hostel in campus is nearing to completion. Transportation facility is provided by college through 10 Numbers of 50-seated buses for transporting staff and students in the mornings and evenings.

The master plan of the College gives direction to the spatial/infrastructural planning and development in sync with the academic growth. The requirements are submitted by HoDs to the Principal, the relevance of the proposal are discussed in IQAC/ academic council and the proposal is forwarded to head office for sanction. The management will provide administrative sanction after the discussion in executive committee. Major civil works are done through head office, the minor civil works and procurement of lab equipment's/furniture are done from the institution after tendering. The purchase is done as per store purchase rule. The implementation of the policy is primarily through the HoDs, academic council, Management and Principal.

#### Maintenance of physical facilities

Language

The maintenance and upkeep of the infrastructure facilities and equipment of the college is carried out by sweepers, electrician/plumber under the supervision of civil engineer and electrical engineer. Computer Maintenance is done under the supervision of Computer instructor

During class committee meetings, students' feedback are taken on infrastructure facilities and suitable actions are taken, wherever required. The corridors cleaned with sanitation liquid once every day. Rest rooms in all floors are sanitized and cleaned twice every day. The lawns and gardens are cleaned and maintained by a Gardener. Water coolers/purifiers are provided in each department block and workshop buildings to provide potable drinking water.

#### **CRITERION V - STUDENT SUPPORT AND PROGRESSION**

5.1 Student Suppor	t			
5.1.1 Scholarships a	nd Financi	al Support		
	Nam	e /Title of the scheme	Number of students	Amount in Rupees
a) National	E Gra	nts	196	2515425
b) International	Nil			
Financial support fro	om other so	urces :Nil		
5.1.2 Number of cap	ability enha	ancement and deve	elopment schemes such a	as Soft skill development,
Remedial coaching,	Language	lab, Bridge course	es, Yoga, Meditation, Pe	ersonal Counselling and
Mentoring etc.,				
Name of the capa	ability	Date of	Number of	Agencies involved
enhancement sc	heme	implementation	students enrolled	

t scheme	implementation	students enrolled	
e Lab	Semester I and II,2017-2018	183	Own Institution
	,		

Personal Counselling and Mentoring		,	Throughout program	the		College is ha professional counsellor to counselling	studen o do pe	ıt rsonal		
Bridge	courses			01.08.2017		1	Own Institut			
				ice for comp	etitive examinatio	ons and	career counsellin	ig offer	red by the	
scheme students for Com		Number		Number of bene students by Car Counselling acti	eer	Number of studer who have passed competitive exam	in the	Number of students placed		
sexual		t and rag	ging cas	es during th <b>No. of grie</b>		Aver	age number of			
				redressed			ance redressal			
	3				3	2 we	eks			
				t during the	year 17-18 , Total		s placed : 27 <b>Off Campus</b>			
Na				Number	Nama of		Number of	NT-	imber of	
	Name of Number of Number Name of			Inumper of	INU					
Orgai	nizations	Stud		of		/isited	Students		ents Place	
	nizations isited		ents		Organizations V	/isited				
Vi		Stud	ents ipated	of Students		/isited	Students			
Vi	sited	Stud Partici	ents ipated	of Students Placed	Organizations V	/isited	Students Participated		ents Place	
Vi	sited	Stud Partici	ents ipated	of Students Placed	Organizations V BYJU'S		Students Participated 75		ents Place	
Vi	sited	Stud Partici	ents ipated	of Students Placed	Organizations V BYJU'S NUCORE ADITYA BIRLA		Students Participated 75 30		ents Place	
Vi	sited	Stud Partici	ents ipated	of Students Placed	Organizations V BYJU'S NUCORE ADITYA BIRLA CAPITAL	<u> </u>	Students Participated 75 30 32		ents Place	
Vi	sited	Stud Partici	ents ipated	of Students Placed	Organizations V BYJU'S NUCORE ADITYA BIRLA CAPITAL RUNBOOK	<u> </u>	Students Participated 75 30 32 61		1         1           1         1           2         2	
Vi	sited	Stud Partici	ents ipated	of Students Placed	Organizations V BYJU'S NUCORE ADITYA BIRLA CAPITAL RUNBOOK POSTPOSITIVE	A ES	Students Participated 75 30 32 61 40		1         1           1         1           2         2	
Vi	sited	Stud Partici	ents ipated	of Students Placed	Organizations V BYJU'S NUCORE ADITYA BIRLA CAPITAL RUNBOOK POSTPOSITIVE SBI CARDS CAS CONSTRUCTIO DIRECTIONS	ES DN	Students Participated           75           30           32           61           40           100           35           47		1         1           1         1           2         2	
Vi	sited	Stud Partici	ents ipated	of Students Placed	Organizations V BYJU'S NUCORE ADITYA BIRLA CAPITAL RUNBOOK POSTPOSITIVE SBI CARDS CAS CONSTRUCTIONS MVK ASSOCIA	ES DN	Students           Participated           75           30           32           61           40           100           35           47           30		1         1           1         1           2         1           1         1           1         1	
Vi	sited	Stud Partici	ents ipated	of Students Placed	Organizations V BYJU'S NUCORE ADITYA BIRLA CAPITAL RUNBOOK POSTPOSITIVE SBI CARDS CAS CONSTRUCTIO DIRECTIONS MVK ASSOCIA UST GLOBAL	ES DN TES	Students           Participated           75           30           32           61           40           100           35           47           30           40		1         1           1         1           2         1           1         1           3         1           1         1	
Vi	sited	Stud Partici	ents ipated	of Students Placed	Organizations V BYJU'S NUCORE ADITYA BIRLA CAPITAL RUNBOOK POSTPOSITIVE SBI CARDS CAS CONSTRUCTIO DIRECTIONS MVK ASSOCIA UST GLOBAL D TECHNOLO	ES DN TES	Students Participated           75           30           32           61           40           100           35           47           30           40           20		1         1           1         1           2         1           1         1           3         1           1         2	
Vi	sited	Stud Partici	ents ipated	of Students Placed	Organizations V BYJU'S NUCORE ADITYA BIRLA CAPITAL RUNBOOK POSTPOSITIVE SBI CARDS CAS CONSTRUCTIO DIRECTIONS MVK ASSOCIA UST GLOBAL D TECHNOLO COGNIKOR	ES DN TES	Students Participated           75           30           32           61           40           100           35           47           30           40           20           40		1         1           1         1           2         1           1         1           3         1           1         2           1         1	
Vi	sited	Stud Partici	ents ipated	of Students Placed	Organizations V BYJU'S NUCORE ADITYA BIRLA CAPITAL RUNBOOK POSTPOSITIVE SBI CARDS CAS CONSTRUCTIONS MVK ASSOCIA UST GLOBAL D TECHNOLO COGNIKOR DBS PRIVATE LIMITED	ES DN TES	Students Participated           75           30           32           61           40           100           35           47           30           40           20           40           30		1       1       1       1       1       1       1       3       1       2       1       2       1       2       1       2       1       2       1       2       1       2       1       2       1       2       1       2	
Vi	sited	Stud Partici	ents ipated	of Students Placed	Organizations V BYJU'S NUCORE ADITYA BIRLA CAPITAL RUNBOOK POSTPOSITIVE SBI CARDS CAS CONSTRUCTIO DIRECTIONS MVK ASSOCIA UST GLOBAL D TECHNOLOO COGNIKOR DBS PRIVATE	ES DN TES	Students Participated           75           30           32           61           40           100           35           47           30           40           20           40           30           42           20           40           30           40           20           40           30           42		1       1       1       1       1       1       3       1       2       1       2       1       2       1       2       1       2       1       2       2       2       2	
Vi	sited	Stud Partici	ents ipated	of Students Placed	Organizations V BYJU'S NUCORE ADITYA BIRLA CAPITAL RUNBOOK POSTPOSITIVE SBI CARDS CAS CONSTRUCTIONS MVK ASSOCIA UST GLOBAL D TECHNOLO COGNIKOR DBS PRIVATE LIMITED	ES DN TES GIES	Students Participated           75           30           32           61           40           100           35           47           30           40           20           40           30		1       1       1       1       1       1       1       3       1       2       1       2       1       2       1       2       1       2       1       2       1       2       1       2       1       2       1       2	

5.2.2 Stu	dent prog	gression to highe	r educa	ation in pero	centage	e durin	ng the year		
Year	Numbe	r of students	P	Programme	<b>e</b> ]	Dep	Name of i	nstitution joined	Name of
	enrollir	ng into higher	g	raduated		art		-	Program
	educati		U	rom	1	men			me
						t			admitted
						gra			to
						dua			
						ted			
						fro			
						m			
2018	2		E	B Tech		CE			M Tech
2018	4		B	B Tech	]	EIE			M Tech
2018	4		E	B Tech	]	ECE	RIT		M Tech
5.2.3Stuc	lents qua	lifying in state/ r	nationa	l/ internatio	nal lev	el exa	minations c	luring the year	(eg:
NET/SE	Г/SLET/C	GATE/GMAT/C	AT/GF	RE/TOFEL/	/Civil S	Servic	es/State Go	vernment Services)	)
	Ι	tems		No. of	f Stude	ents se	elected/	Registration n	umber/roll
					quali	ifying		number for	the exam
NET									
SET									
SLET									
GATE									
GMAT									
CAT									
GRE									
TOFEL Civil Ser	viaaa								
		Services							
Any Othe		Services							
Ally Olli									
5.2.4 Spc	orts and c	ultural activities	/ comr	petitions or	panised	l at the	e institution	level during the ye	ar
Activ			_	evel	Sampod	- ut 111		Participants	
Volleybal							* Ms. At	hira Raveendran, St	5 MCA, Ms.
,	,						AN	AGHA Ms.CHND	PRAN,
							Ms.HA	RITHA MADHAV	'AN AND
				versity				Ms.JAYAVALLI S7	
		ege Volleyball Te	eam, an	d the team v	won in	KTU	Sports meet	, October 2018 and	Placed in
fourth po	osition								
		wards/medals fo					-		
Year		the award/	Natior		Sports		Cultural	Student ID number	Name of the student
5.3.2 Act	ivity of a	Student Council	& repr	resentation	of stud	ents o	n academic	& administrative	
		s of the institutio							

The College has an active Student Union. The Students are encouraged by the College to form a union with elected representatives, in parliamentary mode. Open announcement is made in the College with regard to nominations and election date for the formation of Students Union. The candidates who are interested and eligible can file the nomination to the Election commissioner. They are allowed to muster the students within the fixed duration. Election is conducted for the post of Class representatives; one for 20 students in which one should be a lady. From these elected members, Student President, Vice-President Secretary, Joint Secretary, Treasurer, Arts Secretary, Magazine Editor, Sports Secretary, Hostel Secretary and Social Service League Secretary. Election is conducted on 31/10/2018 during this year.

#### Major activities of the Student Union

- Students Union gives due importance to the overall welfare of the students.
- The Union organizes various functions like College Day, Sports Day, College Cultural festival, Technical festival etc.
- The inter and intra College competitions are conducted for various festivals. Students participated in different competitions in other institutions with the assistance of student union.
- The union members used to help the department which is organizing various training programmes for the development of the students.
- The union members are actively associated with blood donation camp, hair donation camp and mobilize the students to donate blood and hair.

College maintains fund collected from students in the head of Union and Fine Arts for Union activities and College Cultural activities. The Union members also get sponsors for their activities. Apart from Union Council comprising of 12 members, Sports committee, Hostel committee, Womens Cell, Library committee have student's representatives and the students play a vital role in organizing all activities related to their respective committee.

#### 5.3 Alumni Engagement

5.3.1 Whether the institution has registered Alumni Association? Yes/No, if yes give details (maximum 500 words):

CEV Alumni Association is very active and a warm rapport is maintained through annual meetings. 5% of permanent faculty are alumnae of the institute. Alumnae scholarships are distributed to few financially weak students every year. Alumni have sponsored a basketball court costing Rs 5 lakhs, donated 1.75 lakhs for the beautification of reception area and 1 lakhs for library books. The College has instituted a scholarship through alumnae for economically poor students who are good in studies and are not eligible for any other scholarships.

Dakshina- A house is constructed by alumnae and students for a poor family selected by the Pachayath Authority costs 8 lakhs. 2006-2010 batch of students initiated the donation of a house in the name of "Dakshina" to a poor family in the Maniyur Gramapanchayath contributed 3.75 lakhs.

Association of CEV Alumni (CEVAA) is a vibrant organization which caters for the inculcation of intimate fellowship and frequent interaction among the former students of the College. Former staff and faculty are in touch with the institute and visits occasionally.

Dr. Nikita Hari who had completed PhD from Cambridge University in 2018 was selected as one among 50 women engineers in the world is the alumnae of the department of Electrical & Electronics

Engineering in CEV.

#### 5.3.2 No. of registered enrolled Alumni:

1000 members

5.3.3 Alumni contribution during the year (in Rupees)

2.75 lakhs

5.3.4 Meetings/activities organized by Alumni Association

Executive body meetings, General body and Get together of 1<sup>st</sup> batch in their 15<sup>th</sup> year of completion of course. Interaction with a group of final year students

#### **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)

#### Vision

To be a world class technical education institute, with the highest quality and standards of excellence to meet the demands of business, industry and the community and thereby to contribute to India's socio-economic progress

#### Mission

To develop high quality personnel with a sound footing on basic engineering principles, innovative research capabilities and exemplary professional conduct to lead and to use technology for the progress of mankind, adapting themselves to changing technological environment with the highest ethical values as the inner strength

6.1.2 Does the institution have a Management Information System (MIS)? Yes/No/Partial: 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):

#### **Curriculum Development** :

The college is having the affiliated status; the courses are approved by the university at the time of starting of new course. The scheme, syllabus, detailed curriculum, including course objectives, total credit, list of text books/reference books to be followed and the evaluation pattern are provided by the university.

The university encourages the teaching staff to attend syllabus revision meetings. Formal and informal recommendations are given by the faculty members in the curriculum development of various programs.

Based on the stakeholder's feedback and the decision of the Academic Council, new reforms are implemented in teaching learning process in the college level.

As per curriculum students has to acquire 100 grade points extra. Grade points are allotted for internships, extension activities and extracurricular activities, which enhances overall growth of the students

#### **Teaching and Learning**

At the commencement of the semester, the institution prepares the academic calendar containing the relevant information regarding the teaching - learning schedule, holidays, dates of internal examinations, external examinations, fests, meetings of academic council, HoDs, staff, course committee, class committee etc.

Every teacher is assigned 16 hours of work per week as per AICTE norms. The individual departments prepare their weekly timetable distributing the teaching hours, practical hours, guidance, ward counselling hours etc.

The number of actual working days is as per calendar in an academic year, at 6 hours per day comprising a minimum of 70-75 days per semester.

The College strictly follows an academic calendar. The calendar is made available before the beginning of every Semester, which helps the students, parents and teachers to plan their academic year.

#### **Examination and Evaluation**

The evaluation process includes 1/3rd of marks by continuous internal assessment and 2/3rd of marks by end semester examination. Mark distribution is as below:

<u>University</u>	Program	Marks for Series Test	Assignment	Internal Marks	External Marks
KTU	B.Tech	20 * 2	10	50	100
	MCA	15 *2	10	40	60

Internal marks of 50 are provided based on the two series sessional test and two assignments. Marks for series are 20 and mark for assignment is 10. Student is eligible to write external exam if he/she acquires a minimum of 23 marks and 75% attendance. Those who get 18 marks can attend summer course.

External examination is conducted by University for 100 marks and 45% marks and 75% attendance are required for a pass in the examination.

Valuation of university answer sheets are valued from Central Valuation camp as per appointment by university and cross checked by a second examiner is followed for UG papers

PG papers are 1<sup>st</sup> evaluated by concerned faculty and 2<sup>nd</sup> valuation is conducted by an external examiner.

#### **Research and Development**

In order to promote a research culture, CEV has instituted several support systems for conducting research oriented projects, publishing their output in terms of publications, proposal for external funding, application for patents etc.

To promote the research ambience, we are associating with various research organizations like Centre for Engineering Research and Development (CERD), Kerala State Science and Technology Centre (KSCTSE), AICTE, UGC under the R & D cell.

We have nominated Prof. Dr. R Sridharan, Professor, NIT Calicut as Senior Research Advisor to promote and support R&D Cell., R& D cell focuses on

i) Providing information and research guidance to teaching staff about the various funding agencies

- ii) Encouraging interdisciplinary research
- iii) Motivating the faculty of each department to publish articles

iv) Commendable weight age is given to research output while identifying the best outgoing students

#### Library, ICT and Physical Infrastructure / Instrumentation

A well-stocked, spacious central library with browsing facilities is available to students and staff. It houses about 20,000 volumes of books and subscribes 49 print journals. In addition, the library has a collection 419 e-books and subscribes 7 e-journals. About 500 computers and several licensed software are available in various labs for students. Extended library working hours is yet another feature

#### Human Resource Management

The recruitment procedures, service rules are made transparent and employees are benefitted with CL, EL, ML and EPF.

Non-Teaching staff have ESI facility for their family members

Employee's salary will be credited in the bank account directly.

The institution encourages the employees for higher education, presenting research papers in National/International conferences with financial assistance.

#### **Industry Interaction / Collaboration**

Industry interaction has provided opportunity for the students to undergo in plant training, industrial visit, etc.

#### **Admission of Students**

Students are admitted in Merit, Management & NRI quota as per the norms of the Government and CAPE. Eligibility for admission is as specified in the Common Entrance Examination conducted by the Govt. of Kerala. The merit & management students are directed by the Chief Entrance Commissioner according to the Entrance ranking through online counselling. 50% seats are free seats, 35% seats are management seats and 15% seats are reserved for NRI students selected directly on merit basis.

Government Quota (60% of sanctioned intake): The intake of students for the B.Tech programme is based on the rank list prepared by the CEE appointed by the Government of Kerala. The rank is published considering the results of the KEAM and marks of the Higher Secondary Examination in 50:50 proportions. Based on the options regarding institution and programme, opted by the eligible candidates, the CEE allocates students to the institution following various reservation norms constituted by the Government of Kerala.

Management Quota (35% of the sanctioned intake): Selection to this category is done by the CAPE from among the applications submitted by candidates who are declared eligible for admission by the

Commissioner of Entrance Examinations, Government of Kerala.

NRI Quota (5% of the sanctioned intake): Selection to this category is done by the CAPE from among the applications submitted by candidates who are declared eligible for admission by the Commissioner of Entrance Examinations, Government of Kerala. Eligibility Conditions for the various programmes are as follows: The minimum eligibility for B.Tech programme in the merit category is a pass in the Higher Secondary examination (10+2 level) with 50 percent marks in Mathematics and overall 50 percent for Physics, Chemistry and Mathematics put together. For the SC/ST category, a pass in the Higher Secondary examination is the criterion.

#### • Post graduate programmes

Admission to MCA program is based on rank list published by the rank list approved by DTE. Any Government agency will be entrusted to conduct entrance examination under the supervision of Justice James committee. 100% seats for MCA programme are filled from the rank list.

Dl	lanning and Developmen	vernance in areas of operations		
	<u> </u>	t		
	dministration			
	inance and Accounts			
St	tudent Admission and Su	pport		
Ex	xamination			
6.3 Facu	ilty Empowerment Stra	tegies		
6.3.1 Tea	chers provided with fina	ncial support to attend confere	ences / workshops and tow	ards membershi
fee of pro	ofessional bodies during	the year		
•	NT. CALL		NT	A
Year	Name of teacher	Name of conference/	Name of the	Amount of
		workshop attended for which financial support	professional body for which membership	support (in Rs.)
		provided	fee is provided	(III KS.)
		Challenges and		
	Prof.Dr.NK	opportunities in		2166
	Narayanan	Engineering Education –		3166
		Kerala perspectives in		
2017		National Scenario		
		Challenges and		
	Dr. Babitha K V	opportunities in		3116
		Engineering Education –		
2018		Kerala perspectives in National Scenario		
2018		Challenges and		
		opportunities in		
	Ms.Shahanaz N	Engineering Education –		2266
		Kerala perspectives in		
2018		National Scenario		
	Mr. Channelle IV C	Challenges and		2266
	Mr. Shyamesh K G	opportunities in		2266
2018		Engineering Education –		

		Vanala nam	an a atima a in					
		-	spectives in					
			Scenario					
			based NBA					
2010		accreditation	-					7440
2018	Ms. Saritha M	-	prepare SAR					7442
			based NBA					
2010		accreditation	-					=
2018	Mr. Anoop S	-	orepare SAR	2				7442
			based NBA					
2010		accreditation	-					
2018	Mr. Varun Chand	•	prepare SAR					7442
2015			dness for					1.7.1.6
2017	Ms. Shabhana Salih		on by NBA					1746
		training progr						
2010		based contro						2500
2018	Mr.Nithin T	developmer	nt for sitcom	1				3599
						Total		38,435
	nber of professional deve					mmes	organize	ed by the
Ŭ	or teaching and non-teach	Ŭ	<u> </u>					
Year	Title of the	Title of			Dates		o. of	No. of
	professional	administ		(f	rom-to)	-	cipant	participants
	development	training pro	•				aching	(Non-teaching
	programme	organised f	for non-			sta	aff)	staff)
	organised for	teaching						
	organised for teaching staff	teaching						
<	teaching staff		; staff					
	teaching staff of teachers attending profes	sional developm	staff ent programment			tation P	rogramn	ne, Refresher
	teaching staff	sional developm	staff ent programmes du	ring	the year		rogramn	ne, Refresher
Course, Sh	teaching staff of teachers attending profes ort Term Course, Faculty I	sional developm Development Pro	staff ent programmes du	ring er of	the year <b>f teachers</b>			
Course, Sh	teaching staff of teachers attending profes ort Term Course, Faculty I e of the professional devel	sional developm Development Pro	staff ent programmes du	ring er of	the year		Date	e and Duration
Course, Sh Titl	teaching staff of teachers attending profes ort Term Course, Faculty I e of the professional devel programme	ssional developm Development Pro lopment	staff ent programmes du	ring er of	the year <b>f teachers</b>		Date	
Course, Sh	teaching staff of teachers attending profession fort Term Course, Faculty I e of the professional develop programme Three Days Residential V	ssional developm Development Pro lopment Vorkshop on	staff ent programmes du	ring er of	the year <b>f teachers</b>		Date	e and Duration
Course, Sh Titl	teaching staff of teachers attending profes ort Term Course, Faculty I e of the professional devel programme	ssional developm Development Pro lopment Vorkshop on anized by	staff ent programmes du	ring er of	the year <b>f teachers</b>		Date	e and Duration
Course, Sh Titl	teaching staff of teachers attending profession fort Term Course, Faculty I e of the professional devel programme Three Days Residential V "Machine Learning", org	ssional developm Development Pro lopment Vorkshop on anized by cations,	staff ent programmes du	ring er of	the year <b>f teachers</b>		Date	e and Duration
Course, Sh Titl (1)	teaching staff of teachers attending profession ort Term Course, Faculty I e of the professional devel programme Three Days Residential V "Machine Learning", org Dept. of Computer Appli CUSAT in Association w	ssional developm Development Pro lopment Vorkshop on anized by cations, <i>i</i> th DAKF	staff ent programmes du	ring er of	the year <b>f teachers</b>		Date (from	e and Duration
Course, Sh Titl	teaching staff of teachers attending profession ort Term Course, Faculty I e of the professional devel programme Three Days Residential V "Machine Learning", org Dept. of Computer Appli CUSAT in Association w	ssional developm Development Pro lopment Vorkshop on anized by cations, vith DAKF	staff ent programmes du	ring er of	the year f teachers tended		Date (from	e and Duration n – to)
Course, Sh Titl (1)	teaching staff of teachers attending profession ort Term Course, Faculty I e of the professional devel programme Three Days Residential V "Machine Learning", org Dept. of Computer Appli CUSAT in Association w Two Days National Work "Medical Image Analysis	ssional developm Development Pro lopment Vorkshop on anized by cations, vith DAKF sshop on s and Detection	staff ent programmes du	ring er of	the year f teachers tended		Date (from	e and Duration n – to)
Course, Sh Titl (1)	teaching staff of teachers attending profession ort Term Course, Faculty I e of the professional devel programme Three Days Residential V "Machine Learning", org Dept. of Computer Appli CUSAT in Association w Two Days National Work "Medical Image Analysis Techniques with Advance	ssional developm Development Pro lopment Vorkshop on anized by cations, vith DAKF kshop on s and Detection ed	staff ent programmes du	ring er of	the year f teachers tended		Date (from 22-2	e and Duration n – to) 4 June,2018
Course, Sh Titl (1)	teaching staff of teachers attending profession fort Term Course, Faculty I e of the professional devel programme Three Days Residential V "Machine Learning", org Dept. of Computer Appli CUSAT in Association w Two Days National Work "Medical Image Analysis Techniques with Advance Algorithms", Organised b	ssional developm Development Pro lopment Vorkshop on anized by cations, vith DAKF kshop on s and Detection ed by KONGU	staff ent programmes du	ring er of	the year f teachers tended		Date (from 22-2	e and Duration n – to)
Course, Sr Titl (1) (2)	teaching staff of teachers attending profession ort Term Course, Faculty I e of the professional devel programme Three Days Residential V "Machine Learning", org Dept. of Computer Appli CUSAT in Association w Two Days National Work "Medical Image Analysis Techniques with Advance Algorithms", Organised b Engineering College, Per	ssional developm Development Pro lopment Vorkshop on anized by cations, vith DAKF kshop on s and Detection ed by KONGU undurai, Erode	staff ent programmes du	ring er of	the year f teachers tended		Date (from 22-2	e and Duration n – to) 4 June,2018
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Course, Sh Titl (1) (2) (3)	teaching staff of teachers attending profession ort Term Course, Faculty I e of the professional devel programme Three Days Residential V "Machine Learning", org Dept. of Computer Appli CUSAT in Association w Two Days National Work "Medical Image Analysis Techniques with Advance Algorithms", Organised & Engineering College, Per Two Days Seminar on "I Techniques and Tools for Applications", Organised Mathews II College of En	ssional developm Development Pro lopment Vorkshop on anized by cations, vith DAKF s and Detection ed by KONGU undurai, Erode Deep Learning r Medical l by Baselios ngineering ng and	staff ent programmes du	ring er of	the year f teachers tended		Date (from 22-2 20 -2	e and Duration <u>n – to)</u> 4 June,2018 21 July 2018
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Course, Sh Titl (1) (2) (3) (4)	teaching staff of teachers attending profession ort Term Course, Faculty I e of the professional devel programme Three Days Residential V "Machine Learning", org Dept. of Computer Appli CUSAT in Association w Two Days National Worf "Medical Image Analysis Techniques with Advance Algorithms", Organised b Engineering College, Per Two Days Seminar on "E Techniques and Tools for Applications", Organised Mathews II College of En "FDP on Image Processin Computer Vision", Organ of Electronics and Comm Engg, Govt. Engg College	ssional developm Development Pro lopment Vorkshop on anized by cations, vith DAKF schop on s and Detection ed by KONGU undurai, Erode Deep Learning r Medical by Baselios ngineering ng and nised by Dept. nunication ge Kannur,	staff ent programmes du	ring er of	the year f teachers tended		Date (from 22-2 20 -2 24-2	e and Duration <u>n – to)</u> 4 June,2018 21 July 2018 5 September, 201
Course, Sh Titl (1) (2) (3)	teaching staff of teachers attending profession ort Term Course, Faculty I e of the professional devel programme Three Days Residential V "Machine Learning", org Dept. of Computer Appli CUSAT in Association w Two Days National Work "Medical Image Analysis Techniques with Advance Algorithms", Organised B Engineering College, Per Two Days Seminar on "I Techniques and Tools for Applications", Organised Mathews II College of En "FDP on Image Processin Computer Vision", Organ of Electronics and Comm Engg, Govt. Engg College One day workshop on "Q	ssional developm Development Pro lopment Vorkshop on anized by cations, vith DAKF schop on s and Detection ed by KONGU undurai, Erode Deep Learning r Medical by Baselios ngineering ng and nised by Dept. nunication ge Kannur, Duality	staff ent programmes du	ring er of	the year f teachers tended 1 1 1		Date (from 22-2 20 -2 24-2	e and Duration <u>n – to)</u> 4 June,2018 21 July 2018 5 September, 201
Course, Sh Titl (1) (2) (3) (4)	teaching staff of teachers attending profession ort Term Course, Faculty I e of the professional devel programme Three Days Residential V "Machine Learning", org Dept. of Computer Appli CUSAT in Association w Two Days National Work "Medical Image Analysis Techniques with Advance Algorithms", Organised & Engineering College, Per Two Days Seminar on "D Techniques and Tools for Applications", Organised Mathews II College of En "FDP on Image Processin Computer Vision", Organ of Electronics and Comm Engg, Govt. Engg Colleg One day workshop on "Q Research", organized by	ssional developm Development Pro lopment Vorkshop on anized by cations, /ith DAKF schop on s and Detection ed by KONGU undurai, Erode Deep Learning r Medical l by Baselios ngineering ng and nised by Dept. nunication ge Kannur, Puality IEEE	staff ent programmes du	ring er of	the year f teachers tended 1 1 1		Date (from 22-2 20 -2 24-2	e and Duration <u>n – to)</u> 4 June,2018 21 July 2018 5 September, 201
Course, Sh Titl (1) (2) (3) (4)	teaching staff of teachers attending profession ort Term Course, Faculty I e of the professional devel programme Three Days Residential V "Machine Learning", org Dept. of Computer Appli CUSAT in Association w Two Days National Work "Medical Image Analysis Techniques with Advance Algorithms", Organised B Engineering College, Per Two Days Seminar on "I Techniques and Tools for Applications", Organised Mathews II College of En "FDP on Image Processin Computer Vision", Organ of Electronics and Comm Engg, Govt. Engg College One day workshop on "Q	ssional developm Development Pro lopment Vorkshop on anized by cations, /ith DAKF schop on s and Detection ed by KONGU undurai, Erode Deep Learning r Medical l by Baselios ngineering ng and nised by Dept. nunication ge Kannur, Puality IEEE	staff ent programmes du	ring er of	the year f teachers tended 1 1 1		Date (from 22-2 20 -2 24-2 10-1	e and Duration n – to) 4 June,2018

	One Day Workshop on "KPSC Online		
	Examination", Organised by Kerala		
	Public Service Commission, at	1	22 November 201
	Ernakulam,	Number of teachers who	23 November, 2018
Tit	le of the professional development programme	Number of teachers who attended	Date and Duration (from – to)
(7)	FDP on AI and Machine Learning at		
	Adi Sankara College of Engineering		14-12-2018 to 19-12-
	and Technology, Kalady	1	2018
(8)	FDP on Machine Learning at College of		
	Engineering Thalassery, Thalassery,		23 April 2018 to 27
	Kannur.	1	April 2018.
(9)	STTP on Emerging fields of		
	Mathematics for Researchers, at		
	College of Engineering		18 December 2017 to
	Thalassery, Thalassery, Kannur	5	22 December 2017
(10)	STTP on Research Challenges in Data		
	Analytics at Sree Chitra Thirunal		
	College of Engineering		6 th Dec 2018 to 13
	,Thiruvananthapuram	2	December 2018
(11)	DTE sponsored FDP on Algorithms in		18 December 2017 t
	Machine Learning at CET, Trivandrum	2	22 December 2017
(12)	FDP on Artificial Intelligence and		
	Machine Learning, at		16 th July 2018 to 20
	Mohandas College of Engineering and		July 2018.
	Technology		
(13)	FDP on Education Technology ,at TKM	1	12 th February to 17
(13)	College of		-
	Engineering,		February
	Lugineering,	1	
(14)	TEQIP sponsored FDP on Outcome		
	Based NBA Accreditation with		
	Emphasis on How To Prepare SAR, at		11 January 2018 to
	College of Engineering Perumon,		
		2	13 January 2018
(15)	VTU Sponsored EDD on Advances in	2	
(15)	KTU Sponsored FDP on Advances in		, during 17 December
	Machine Learning at Rajadhani College		2018 to 21 December
	of Engineering ,Attingal ,Trivandrum	1	2018
(16)	Research challenges in data analytics;;	1	
(10)	organized by Dept. of computer science		Dec ( 12, 2010
	and eng.SCT Trivandrum.	1	Dec 6-13, 2018
(17)	"Design thinking"; organized by	1	
(17)	St.Joseph's college of engineering and		intr 0 11 2019
	technology, Palai	2	july 9-11 2018
(18)	"Machine Learning"; organized by	<i>L</i>	
(10)	St.Gitz college ; Kottayam		Luna 10 00 0010
	St. Sitz conege, Kottayani	1	June 18-22, 2018;
(19)	5 days FDP on "Guidance and	1	04/12/2017 to
(エノ)			
	Counselling" organized by ISTE,		08/12/2017.

(20)	5 days FDP on "Analog Electronics" organized by Saintgits College of Engineering, Kottayam		,Jan 2018
	Engineering, Kottayani	1	
Title	of the professional development	Number of teachers who attended	Date and Duration
(21)	programme		(from – to)
(21)	Workshop on AICTE Initiatives' at Vidya Academy of Science & Technology, Thrisssur.	1	on 16/12/2017
(22)	**	1	
(22)	'Smart India Hackathon 2018 Awareness workshop' at SCMS School of Engineering & Technology.	1	on 9/1/2018
(23)	'Training and Placement Officers Work shop By AICTE' at SNGCE, Kadayirippu, Errnakulam	1	on 13th January 2018
(24)	ICT Academy of Kerala 'Top 10 event' at Hilite Business park Kozhikode	1	, on 2nd February 2018
(25)		1	
(25)	FDP on LaTEx conducted by ICFOSS for KTU held at Technopark, Trivandrum	1	on 17th & 18th of July 2017
$(\mathbf{a}_{\mathbf{c}})$		1	
(26)	Faculty Development Program on "Artificial Intelligence for Biomedical Applications "organised by Department of EEE, TKM College of Engineering and Sponsored by TEQIP II	1	11-15 December 2017
(27)	Hands on Workshop on Internet of Things for Electrical applications" organised by Department of EEE, CET and sponsored by KTU	1	during 16-21 July 2018
(28)	DTE sponsored faculty development program on "Embedded System Design for Power Electronic Converters "at CET, Thiruvananthapuram.	1	3-7 December 2018
(29)	Six Days STTP on "Information Security and Ethical hacking", organized by Dept. Of Computer Science and Engineering and Sponsored by DTE, Govt. Engg,College Kannur	1	19-24 February 2018.
(30)	An escersion to topics in algorithm design sponsored by KTU,Model	1	28-30 December 2017
(31)	engineering College,Ernakulam, FDP on AI and Machine Learning at Adi Sankara College of Engineering and Technology, Kalady	1	14-12-2018 to 19-12- 2018
(32)	Five-day International Workshop on Cyber Security, Cyber Forensics, Cyber Law (Cyber Cube – 2018) organized by Cyber Intelligence Research		
	Laboratory, CUSAT in association with Kerala Police Academy, Thrissur	1	20-24 April, 2018
(33)	Two Days The Hands-on National	1	2-3 February 2018.

	Workshop on "Eth					
		artment of Computer				
	Science, Rajagiri C					
	Sciences, Kalamas	sery, Kochi, Kerala				
Tit	e of the professional	=		umber of teachers wh attended	10	Date and Duration (from – to)
(34)	programm Two Days Worksh					(110111 – t0)
(54)		Program", Organized				
	by IIT Bombay and			1		23-24 November 2017
(35)	(35) Challenges and opportunities in			-		
()	Engineering Educa					
	perspectives in Nat			4		October 5th 2017
(36)	Outcome based NI	BA accreditation				
	with emphasis on h	now to prepare SAR		3		11-13 January 2018
(37)	preparedness for ac	ccreditation by NBA		1		14-15 December 2017
(38)	training program of	n FPGA based				
	control Algorithm	development for				
	sitcom			1		26- 27 July 2018
6.3.4 Fa	culty and Staff recr	uitment (no. for pern	nanent/	fulltime recruitment)		
	Teach	ning		Ν	on-te	aching
P	ermanent	Fulltime		Permanent		Fulltime/temporary
-						
6.3.5 We	lfare schemes for					
					Prov	vident Fund, Group
Taaahina						rance
Teaching						
						vident Fund, ESI, Group
Non-teac	hing				Insu	rance
					E gr	ants,
					Fee	Waver scheme
						mnae Scholarship, Merit
						n Means Scholarship
						1
						up Insurance,
					Coo	perative Department
Students					scho	olarship
6.4 Final	ncial Management	and Resource Mob	ilizatio	n		
6.4.1 Inst	itution conducts int	ernal and external fir	nancial	audits regularly (wi	th in	100 words each)
				ncial year and after a		
		-		y as per direction from		
-			•	• •		
				nanagement conducted		
		-	non-go	overnment bodies, inc	lividu	als, philanthropies
during th	e year (not covered	in Criterion III)				
Nam	e of the non gover		Fun	ds/ Grants received	in 🛛	Purpose
	agencies/ indiv	iduals		Rs.		
	TCS			2,00,000		Online examinations
	Ramco cements,	, Kitco		60,000		Consultancy
$6 \overline{12}$ Tot	al corpus fund gene	rated ·				

6.5.1	Whether A	cademic and Administrat	ive Audit (AAA) has bee	en done?	
Au	dit Type	Exte	rnal	Int	ternal
		Yes/No	Agency	Yes/No	Authority
Acade	mic	Yes	KTU	Yes I	Inter departments
Admin	istrative	Yes	Chartered Accountant		3 persons from othe institutions
The I	nstitute arr	nd support from the Pare anges for a parent – teac nvited by faculty advis	thers meet once in a sem	nester during a wee	1
		, attendance and other re		1.	
		nt programmes for supporter staff at college level T			
<ul> <li>IS</li> <li>Go</li> <li>Str</li> </ul>	O 2001-20 ot Consulta udents are	ditation initiative(s) (mer 15 upgradation ncies encouraged for student's rch and patents improven	internship programs.		
6.5.5					
		Data for AISHE portal	: (Yes /No) Yes		
	ticipation in		(Yes /No) No		
	Certificati		: (Yes /No) Yes		
	•	her quality audit	: (Yes /No) Yes		
0.3.6 I	1	Quality Initiatives under			
<b>X</b> 7		quality initiative by	Date of conducting	Duration (from-	
Year	IQAC		activity	-to)	participants
			and the stheath a athea		7 faculty and
			3 <sup>rd</sup> , 4 <sup>th</sup> , 5 <sup>th</sup> , 8 <sup>th</sup> & 9 <sup>th</sup> of		281 students of
2018	Review	f Final year projects	October 2018	5 days	final year

# CRITERION VII – INSTITUTIONAL VALUES AND BEST PRACTICES7.1 - Institutional Values and Social Responsibilities7.1.1 Gender Equity (Number of gender equity promotion programmes organized by the institution during the year)Title of the programmePeriod (from-to)Participants

						Fen	nale	Male
"She Dia	ry" – Sharing expe	rience of her	AN of	f 8/3/20	18	7		3
Let Me Speak-Voice of Malabar			06/03/2018		15		14	
He about She			07/03/2018		1	2	8	
	ender-Distribution	of purple						10
ribbon			10/03/2018		<b>.</b>	23		19
	vironmental Consci ge of power require		•			0.		
7.1.3 Diff	ferently abled (Di		ndliness				1	
Items Facilities			Yes/N				f Beneficiaries	
Physical 1			Yes					Nil
Provision				No			Nil	
Ramp/ Ra				Yes			Nil	
	oftware/facilities			Yes			Nil	
Rest Rooms				Yes			Nil	
	or examination		11		Ye	S		Nil
Special sl students	kill development fo	or differently ab	iea		Ye	9		Nil
	· · · · · · · · · · · · · · · · · · ·				Ie	3		1111
Any other	r cimilar taailitu							
Any othe	r similar facility							
·	•	ness						
7.1.4 Incl	r similar facility lusion and Situated ost important init		address l	location	nal adva	antages and	l disadvan	tages during the
7.1.4 Incl Enlist mo year	lusion and Situated ost important init	iatives taken to						
7.1.4 Incl Enlist mo year	lusion and Situated		Date and	l of the	nal adva Name initiati	of the I	disadvan ssues ddressed	tages during the Number of participating students and staff
7.1.4 Incl	lusion and Situated ost important initi Number of initiatives to address locational advantages and	iatives taken to Number of initiatives taken to engage with and contribute to local	Date and duration	l of the	Name	of the I ve a	ssues	Number of participating students and
7.1.4 Incl Enlist mo year Year	lusion and Situated ost important initian Number of initiatives to address locational advantages and disadvantages	Number of initiatives taken to engage with and contribute to local community 1. Packed and distributed food and dress during flood. 2.Conducted survey of loss in 4 villages due to flood	Date and duration initiative	l of the	Name initiati	of the I ve a	ssues	Number of participating students and
7.1.4 Incl Enlist mo year Year 7.1.5 Hur	Iusion and Situated         ost important initiatives to         address         locational         advantages and         disadvantages	iatives taken toNumber ofinitiatives takento engage withand contributeto localcommunity1. Packed anddistributed foodand dress duringflood.2.Conductedsurvey of loss in4 villages due toflood	S Date and duration initiative	l of the	Name initiati	of the I ve a	ssues	Number of participating students and
7.1.4 Incl Enlist mo year Year 7.1.5 Hur	lusion and Situated ost important init Number of initiatives to address locational advantages and disadvantages	iatives taken toNumber ofinitiatives takento engage withand contributeto localcommunity1. Packed anddistributed foodand dress duringflood.2.Conductedsurvey of loss in4 villages due tofloodofessional Ethics) for various st	Date and duration initiative	l of the	Name initiati	of the I ve a	ssues ddressed	Number of participating students and staff
7.1.4 Incl Enlist mo year Year 7.1.5 Hur	Iusion and Situated         ost important initiatives to         address         locational         advantages and         disadvantages	iatives taken toNumber ofinitiatives takento engage withand contributeto localcommunity1. Packed anddistributed foodand dress duringflood.2.Conductedsurvey of loss in4 villages due tofloodofessional Ethics) for various st	S Date and duration initiative	l of the	Name initiati	of the I ve a	ssues ddressed	Number of participating students and staff
7.1.4 Incl Enlist mo year Year 7.1.5 Hur	lusion and Situated ost important init Number of initiatives to address locational advantages and disadvantages	iatives taken toNumber ofinitiatives takento engage withand contributeto localcommunity1. Packed anddistributed foodand dress duringflood.2.Conductedsurvey of loss in4 villages due tofloodofessional Ethics) for various st	Date and duration initiative	l of the	Name initiati	of the I ve a	ssues ddressed	Number of participating students and
7.1.4 Incl Enlist mo year Year 7.1.5 Hur Code of c	Iusion and Situated         ost important initiatives to         address         locational         advantages and         disadvantages         man Values and Preconduct (handbook         Title	iatives taken to         Number of         initiatives taken         to engage with         and contribute         to local         community         1. Packed and         distributed food         and dress during         flood.         2.Conducted         survey of loss in         4 villages due to         flood         ofessional Ethic         s) for various st         Date	Date and duration initiative s akeholders of Publica	l of the e s tion	Name	of the I a	ssues ddressed	Number of participating students and staff
7.1.4 Incl Enlist mo year Year 7.1.5 Hur Code of c	lusion and Situated ost important init Number of initiatives to address locational advantages and disadvantages	iatives taken to         Number of         initiatives taken         to engage with         and contribute         to local         community         1. Packed and         distributed food         and dress during         flood.         2.Conducted         survey of loss in         4 villages due to         flood         ofessional Ethic         s) for various st         Date	Date and duration initiative s akeholders of Publica	a of the s s tion Values	Name initiati	of the I a	ssues ddressed	Number of participating students and staff

7.1.7 Initiatives taken by the institution to make the campus eco-friendly (at least five)
Implemented Green protocol Initiative by the Maniyur Granma Panchayath.
Plastics collected from the campus are handed over to panchayath authority
Usage of plastics are almost eliminated.
7.2 Best Practices
Describe at least two institutional best practices
• Upload details of two best practices successfully implemented by the
• institution as per NAAC format in your institution website, provide the link
Best Practice I: Campus Management System (CMS)
• The main objective of the CMS is to facilitate all administrative and academic details regarding the students, their study, progress and academic performances in a transparent manner to the parents and students and staff to achieve greater success.
• Management took initiative to implement e- office with help of govt agency.
• Entry of attendance is done through the CMS app from the class itself
Best Practice II: In-house project – leads to Inculcation of Research Culture among the Faculty and

Students.

- During last year 50% of the main projects are done from college itself.
- During this year R & D cell reviewed all projects before selection and and conducted a presentation after the completion of design part of 30% of the work.
- 17 project proposals are send to KCSTE and 7 for CERD.

#### 7.3 Institutional Distinctiveness

Provide the details of the performance of the institution in one area distinctive to its vision, priority and thrust

Provide the weblink of the institution in not more than 500 words

The Institution decided to improve the technical skill through projects. R&D cell members and a group of faculty reviewed all final year projects from 3<sup>rd</sup> Oct to 9<sup>th</sup> Oct 2018. As per University rules project batch should not have greater than 4 students. All batches presented their project idea and discussed the implementation plan, Project having inferior quality are rejected and the students selected new topics. Majority of the projects are of interdisciplinary areas. The projected selected are in the area of Machine learning, networking, data science, IOT etc. Electrical branch is more concentrated on non-conventional energy problems like solar energy conversion, storage etc. Civil branch concentrated on low cost materials having capacity to withstand flood, earth quake etc. The faculty group assessed the progress of work at the end of the semester.

An inter disciplinary project proposes a new method for water purification i.e. E Collie free water, In which measurement part is done by Electronics department and water filtration by Civil Dept. Vehicle density driven traffic signalling and vehicle to vehicle communication system, Third eye (Walking stick) to help blind person to cross the road are some of them.

The following are the list of project proposal submitted for funding.

Sl No	Title				
1	Pavement Stabilization Using Geotextiles				
2	An effective treatment method for septic tank effluent				
	mixed well water in the flood affected region				
3	Recycled building blocks				
4	Treatment and reuse of grey water in college campus				
5	Electromagnetic suspension system for improved vehicle				
	dynamics				
6	Automated Manhole surveillance system using drone				
7	Crop protection and intrusion detection system				
8	Brain controlled wheel chair				
9	Zero investment method for Grid power factor				
	Improvement by implementation of new control scheme for				
	grid connected solar panel				
10	Automated product retrieval and purchase using PLC				
11	FPGA based hardware implementation of islanding				
	detection and MPPT for grid connected Solar Plant				
12	Classification of Cancerous profiles using Machine				
	Learning				
13	Smart WIFI Trashbin				
14	Cooperative Hazard awareness and avoidance system using				
	V2V communication				
15	Water quality monitoring system using wireless sensor				
	network in flood effected areas				
16	Extraction Of Load Harmonics And Reactive Current Demand From				
	Load Current For STATCOM Applications				

#### 8. Future Plans of action for next academic year (500 words)

- Increase number of publications od students and faculty.
- Project coordinators are directed to publish at least one paper for each final year project.
- Decided to completion of at least one NPTEL course compulsory for final year students
- Faculty members and students are motivated to do higher studies.
- Increase participation of students in national/inter-national technical events.
- Train the students in upcoming technologies through online courses to meet industry expectations.
- Get more Funded projects from funding agencies.
- Conduct of department activities by renowned alumni, professional bodies and MOU.
- Strengthening the industry institute interaction by conducting various events such as guest lectures, industrial visit, workshop and faculty development programmes.
- Organise environmental awareness, personality development and entrepreneurship development programmes.

Name : Dr. N. K. Narayanan Name : Dr. Smitha C. K. Signature of the Coordinator, IQAC Signature of the Chairperson, IQAC **COLLEGE OF ENGINEERING** Vadakara- P.o Mandarathur - 673 105 Page 42

For Communication with NAAC

#### The Director National Assessment and Accreditation Council (NAAC)

(An Autonomous Institution of the University Grants Commission) P. O. Box. No. 1075, Nagarbhavi Bengaluru - 560 072 Phone: +91-80-2321 0261/62/63/64/65 Fax: +91-80-2321 0268, 2321 0270 E-mail: <u>director.naac@gmail.com</u> Website: www.naac.gov.in