

# **SELF STUDY REPORT**

**FOR**

**1<sup>st</sup> CYCLE OF ACCREDITATION**

## **KARPAGA VINAYAGA COLLEGE OF ENGINEERING AND TECHNOLOGY**

GST ROAD, CHINNA KOLAMBAKKAM, PALAYANOR POST,  
MADURANTHAGAM TALUK, KANCHEEPURAM DISTRICT, TAMILNADU  
603308

[www.kveg.in](http://www.kveg.in)

**SSR SUBMITTED DATE: 17-01-2018**

Submitted To

**NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL**

**BANGALORE**

**January 2018**

# 1. EXECUTIVE SUMMARY

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## 1.1 INTRODUCTION

The Karpaga Vinayaga College of Engineering and Technology is a premier technical institution in the industrial city of Chennai. The college was started in the year 2001 by Thiru. S.Regupathy, Founder and Former Minister of State for Environment & Forests, Govt of India. Ever since its inception it has set the stage for quality technical education for the rural students. The Institution is affiliated to Anna University, Chennai and approved by the AICTE, NewDelhi. The college offers Eight undergraduate programmes in the disciplines of AUTO, BME, BT, CSE, CIVIL, ECE, EEE, MECH, and eight post-graduate programmes viz., MBA, MCA, M.E-CSE, M.E-VLSI, M.E-EST, M.E-PED, M.E-MFG and M.Tech - BT. The institution has signed MOU with several leading industries and Foreign Universities viz., Michigan Technological University, USA, National Taiwan Ocean University, Taiwan and PSB Academy, Singapore. The Departments of BioTech, CSE, ECE and Chemistry are recognized as Research Centers by Anna University, Chennai. The Institution is recognized by the Department of Scientific Industrial Research Organization, New Delhi. The College has been awarded with “Best Engineering College of the year Award -2016” by the Higher Education Review Magazine. The college has received funds from various funding agencies like DBT, DST, DST-SERB, MoES, ICMR, DAE-BRNS, ISRO, DAE-NBHM, ICSSR, NABARD, U.S. Common Grant Program, IChE, TNSCST, Biochemical Society, London to conduct Conference / Seminar / Workshop and Research activities. Recently, the insitituion is recognized by the UGC under 12(B) and 2(f) category.

### Vision

Imparting innovative higher education with greater accentuation on high value systems shaping personnel for nation-building

### Mission

- To impart quality technical education by providing state-of-the art infrastructure with dedicated facility.
- To provide contemporary technical education for facing the needs and challenges of industries and research establishment at global level.
- To effect socio-economic transformation of society by inculcating human values and social responsibilities.

## 1.2 Strength, Weakness, Opportunity and Challenges(SWOC)

### Institutional Strength

- Dedicated and supportive management
- Qualified faculty
- Better infrastructure
- Environment friendly, pollution free campus
- Better accessibility

- Student friendly management and faculty
- Gender friendly environment
- Opportunities for students to acquire and enhance knowledge through value added courses, seminars, guest lectures, workshops and conferences
- Institute – Industry collaboration
- Collaboration with international universities
- Placement oriented training and skill development programmes
- Encouraging students in co-curricular, extra-curricular and extension activities
- Entrepreneurship Development Cell
- Recognized Research Centres.

### **Institutional Weakness**

- Lack of English communication skills of rural students
- Limitations of academic freedom as an affiliated college
- Away from the city
- Slowdown in IT and other industries leads to less takers for engineering.

### **Institutional Opportunity**

- Having potential to become an Autonomous College
- Research Centre recognition for all the departments
- Providing employment training and vocational courses to rural unemployed youth
- Potential to obtain research funds from government and other agencies.

### **Institutional Challenge**

- Keeping pace with the rapid development in higher education.
- Gap between syllabus and industry needs.
- Reduction in enrolment due to lack of employment opportunities

## **1.3 CRITERIA WISE SUMMARY**

### **Curricular Aspects**

The curriculum and syllabi are prescribed by the affiliating university. Each subject has specific outcome as well as course outcome. The details of instructional hours and the objectives are given to students and faculties.

Following are our strategies adopted for curriculum planning:

- Taking utmost care in allotment of faculty for the specific subject based on the strength of the facilitator.
- A well planned academic schedule and timetable for each semester.
- Industrial visits, internships, guest lectures and value added courses are also fixed in curriculum of each

subject or each course.

- Concurrent academic auditing.
- Class tests in class timetable.
- Dispatching of progress report to parents.

KVCET gives a unique flexibility apart from the regular curriculum. Some of the academic flexibility is explained below.

- The brilliant students are allowed to undertake group research project/ PEER team research.
- Students are given special training on their core discipline.
- Intensive coaching and special instructional periods for slow learners.

KVCET provides dynamic and updated curricular inputs.

- Students are given awareness on vital issues such as human values, environment, stress management, gender bias, women empowerment and entrepreneurship skills through periodical special lecture sessions by experts.
- Enrichment on soft skill development and leadership qualities are provided through its training and placement cell.
- Provision of special technical skills through value added courses and workshops.

### **Teaching-learning and Evaluation**

KVCET attracts students from different geographical areas, socio- economic, cultural and educational backgrounds. Students from Kerala, Andhra Pradesh and North Eastern states are part of our diverse student communities. The institution attracts sizeable number of students from Chennai city because of its academic ambience and good transport facilities.

The diversification of students are done after their first semester performance along with scrutinization of ranks awarded by the University. The slow learners are provided with extra intensive coaching beyond time table. In addition, they are given with prepared question and answer banks in their failed papers. The respective mentors are monitoring their academic performance along with counselling and parent care. Likewise equal attention has also been given to the average and brilliant students. They are motivated to undertake innovative research projects (peer group/Z group) and appearing for competitive examinations.

Teaching learning process includes experimental learning and participating learning. Problem solving methods are taught to the students. Teachers are encouraged to use ICT tools and e-resources for teaching. Fully qualified teachers, including 28 Ph.D's for effectively teach innovative ideas and research methodoliges apart from curriculum. The entire evaluation method as per the norms of the affiliating university. The institution conduct internal assessment test and model examination for the weightage of 20 marks and the University conducts End Semester examination for the weightage of 80 marks. At the end of every semester students feed back will be collected for future improvement.

### **Research, Innovations and Extension**

Teaching and research is two dichotomous branch of higher education. Teachers can only know where the gap

of knowledge exists in their specialization. Hence KVCET promotes research culture among faculty and students. There is an R&D cell, which is overseeing the R&D activities with clear agenda.

KVCET provides seed money for research, leave with on other duties and incentives to attend and present their work in scientific meeting. The college is so liberal to extend its facilities to undertake research with financial support from management. KVCET has received research grant from government and other funding agencies like DSIR, SERB, IChE, U.S. Common Grant Program, etc.,

Our faculty members are recognized supervisors in various Universities and guiding research scholars for their Ph.D. In continuation of our successes in promoting and creating research ecosystem, some of our faculty have developed products, applied for patents and undertaken industrial consultancy assignments. Potential students are identified and promoted them to undertaken peer group projects.

There has been tangible rise of research on socially relevant problem, medicine, agriculture, industry and IT sectors. The creation of research culture among faculty resulted in an upward trend in research paper publications. Faculty and students have been consistently publishing research papers in reputed professional journals with high impact factor. For the past five years more than two hundred original research papers are published by the members of faculty. A deserving point to be noted in this context, 3 papers have won best paper awards by International scientific organization.

### **Infrastructure and Learning Resources**

One of the important criteria for quality higher education is incorporation of adequate infrastructural facility in the institute. The college has extraordinarily physical build in infrastructural facility for teaching and learning. There are 52 class rooms, 24 smart class rooms with Wi- Fi, LAN and LCD audio visual provisions, 1 Central Library, two seminar halls, one approved animal house and 56 laboratories. In addition to the above, there are two men's hostel and one ladies hostel. 550 PCs are connected by SQL server with all necessary accessories. The college is utilizing 95-98% budget allocation per year for infrastructural development. Apart from the above facilities, the college has playgrounds for indoor and outdoor games and gymnasium.

The college has well stacked library with integrated library management system (ICMS). DELNET – Full text engineering and technology subjects, large number of volumes, multiple copies of university prescribed text books, journals and magazines are available. Reprographic facility for students is also provided in the Central Library. Apart from Central Library resources, each department has its own library for staff and student's ready reference.

### **Student Support and Progression**

KVCET is committed to engage through 95-100% placement that complement to our teaching and research strength. The college provides financial support through government scholarship schemes, Founder's scholarship fees waiver on compassion ground and group insurance policy. The counseling system renders support to the students for career, leadership quality, redresses of grievances, social issues, etc. A well-structured mentoring system is in place for the betterment of the students by maintaining good relationship with students and parents.

The placement cell supports students to improve their soft skills, verbal ability, quantitative aptitude,

logical reasoning and alleviate fear for facing interviews. The institution encourages students to take part in sports activities. The winning records by the students in various events of past years by themselves speak for student participation in Sports. The NSS Unit has won Best NSS Unit Award and our students won Best NSS Volunteer Awards many times.

The Fine Arts and Cultural Club and the NSS wing are celebrating nationally important days viz: Independence Day, Republic Day, Teacher's Day, International Women's Day, International Yoga Day, Communal Festival Days, Engineers Day, etc.,

Education at KVCET is really a Journey of life time. The alumni of our college have strong support in appreciation of their learning situation in our campus. They have looked back their days in our campus and so generous to support Alma Matter. College Alumni Association is registered under Societies Act 1975 and functioning independently. Alumni are also providing financial support to poor students.

### **Governance, Leadership and Management**

A well structured Governing Council is functioning to oversee the entire academic and other activities pertaining to the smooth functioning of the college. The Principal as Head of the Institution, looking after admission cell, recruitment, library and financial management. He is also monitoring day to day activities on curricular and extra curricular matters by each department with the coordination of HODs and teaching staff.

An office headed by an Administrative officer along with supporting staff under the headship of Principal is taking care of establishment and correspondances with University, AICTE, Public relations, etc. There are two senior faculty with a capacity of Dean under the headship of Principal taking care of Student Affairs and R&D activities. The detailed organogram of the college is presented in Criteria VI

### **Institutional Values and Best Practices**

KVCET is signing MoU for industrial visits, internships, placement and industrial based projects with more number of industries of different nature. The college has such learning processes with industrial counterparts apart from fixed engineering curriculum and subsequent placement of graduate engineers in industries. KVCET has created such a valued platform where faculty, students and industry can meet, share ideas and interact.

The college shows much interest on green auditing, eco-friendly campus, energy management and rain water harvesting facilities. Besides regular functioning, programmes on gender equity, women empowerment, environmental and pollution awareness, anti-tobacco campaign, service programmes such as nutrition, health, family planning etc., have also been regularly organized.

The college involves in many social development activities. The following are some of the activities;

1. Installation of barricades, signboards and traffic signal posts
2. Helping slum dwellers and people living near low lying areas during flood
3. Conducting free medical and dental camps
4. Offering rice to poor (Rice bucket challenge)
5. Adopting tribal schools
6. Distribution of question bank and answers to school students for public examination

7. Organizing Blood donation camps
8. Pollution control and anti-tobacco rally
9. Promotion of agriculture with green technology.

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## 2. PROFILE

### 2.1 BASIC INFORMATION

Name and Address of the College	
Name	Karpaga Vinayaga College Of Engineering And Technology
Address	GST Road, Chinna Kolambakkam, Palayanoor Post, Maduranthagam Taluk, Kancheepuram District, Tamilnadu
City	Kancheepuram
State	Tamil Nadu
Pin	603308
Website	<a href="http://www.kveg.in">www.kveg.in</a>

Contacts for Communication					
Designation	Name	Telephone with STD Code	Mobile	Fax	Email
Principal	P. Kasinatha Pandian	044-27565970	9524008938	044-27565487	kvcet@live.com
IQAC Coordinator	V.C. Ravichandran	044-27565651	9884301605	044-27565653	vcr1949@gmail.com

Status of the Institution	
Institution Status	Private

Type of Institution	
By Gender	Co-education
By Shift	Regular

Recognized Minority institution	
If it is a recognized minority institution	No

Establishment Details	
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Date of establishment of the college	02-07-2001			
<b>University to which the college is affiliated/ or which governs the college (if it is a constituent college)</b>				
<b>State</b>	<b>University name</b>		<b>Document</b>	
Tamil Nadu	Anna University		<a href="#">View Document</a>	
<b>Details of UGC recognition</b>				
<b>Under Section</b>			<b>Date</b>	
2f of UGC				
12B of UGC				
<b>Details of recognition/approval by stationary/regulatory bodies like AICTE,NCTE,MCI,DCI,PCI,RCI etc(other than UGC)</b>				
<b>Statutory Regulatory Authority</b>	<b>Recognition/Approval details Institution/Department programme</b>	<b>Day,Month and year(dd-mm-yyyy)</b>	<b>Validity in months</b>	<b>Remarks</b>
AICTE	<a href="#">View Document</a>	10-04-2017	12	

<b>Details of autonomy</b>	
Does the affiliating university Act provide for conferment of autonomy (as recognized by the UGC), on its affiliated colleges?	No

<b>Recognitions</b>	
Is the College recognized by UGC as a College with Potential for Excellence(CPE)?	No
Is the College recognized for its performance by any other governmental agency?	Yes
If yes, name of the agency	Department of Scientific and Industrial Research
Date of recognition	01-04-2016

<b>Location and Area of Campus</b>				
<b>Campus Type</b>	<b>Address</b>	<b>Location*</b>	<b>Campus Area in Acres</b>	<b>Built up Area in sq.mts.</b>
Main campus area	GST Road, Chinna Kolambakkam, Palayanoor Post, Maduranthagam Taluk, Kancheepuram District, Tamilnadu	Rural	25	37829.08

## 2.2 ACADEMIC INFORMATION

<b>Details of Programmes Offered by the College (Give Data for Current Academic year)</b>						
<b>Programme Level</b>	<b>Name of Programme/Course</b>	<b>Duration in Months</b>	<b>Entry Qualification</b>	<b>Medium of Instruction</b>	<b>Sanctioned Strength</b>	<b>No.of Students Admitted</b>
UG	BE,Automobile Engineering	48	Twelfth	English	60	18
UG	BE,Biomedical Engineering	48	Twelfth	English	60	49
UG	BTech,Biotechnology	48	Twelfth	English	60	54
UG	BE,Computer science And Engineering	48	Twelfth	English	120	48
UG	BE,Civil Engineering	48	Twelfth	English	60	17
UG	BE,Mechanical Engineering	48	Twelfth	English	120	66
UG	BE,Electronics And Communication Engineering	48	Twelfth	English	120	28
UG	BE,Electrical And Electronics Engineering	48	Twelfth	English	60	7

PG	Mtech,Biotechnology	24	UG	English	24	22
PG	MCA,Master Of Computer Applications	36	UG	English	60	49
PG	MBA,Master Of Business Administration	24	UG	English	60	60
PG	ME,Computer Science And Engineering	24	UG	English	18	17
PG	ME,Embedded System Technologies	24	UG	English	18	10
PG	ME,Manufacturing Engineering	24	UG	English	18	13
PG	ME,Power Electronics And Drives	24	UG	English	18	17
PG	ME,Vlsi Design	24	UG	English	18	6
Doctoral (Ph.D)	PhD or DPhil, Biotechnology	36	PG	English	16	3
Doctoral (Ph.D)	PhD or DPhil, Computer Science And Engineering	36	PG	English	16	0
Doctoral (Ph.D)	PhD or DPhil, Electronics And Communication Engineering	36	PG	English	16	0
Doctoral (Ph.D)	PhD or DPhil, Chemistry	36	PG	English	16	0

**Position Details of Faculty & Staff in the College**

<b>Teaching Faculty</b>												
	<b>Professor</b>				<b>Associate Professor</b>				<b>Assistant Professor</b>			
	Male	Female	Others	Total	Male	Female	Others	Total	Male	Female	Others	Total
Sanctioned by the UGC /University State Government	0				0				0			
Recruited	0	0	0	0	0	0	0	0	0	0	0	0
Yet to Recruit	0				0				0			
Sanctioned by the Management/Society or Other Authorized Bodies	29				30				172			
Recruited	24	5	0	29	18	12	0	30	132	40	0	172
Yet to Recruit	0				0				0			

<b>Non-Teaching Staff</b>				
	<b>Male</b>	<b>Female</b>	<b>Others</b>	<b>Total</b>
Sanctioned by the UGC /University State Government				0
Recruited	0	0	0	0
Yet to Recruit				0
Sanctioned by the Management/Society or Other Authorized Bodies				156
Recruited	79	77	0	156
Yet to Recruit				0

<b>Technical Staff</b>				
	<b>Male</b>	<b>Female</b>	<b>Others</b>	<b>Total</b>
Sanctioned by the UGC /University State Government				0
Recruited	0	0	0	0
Yet to Recruit				0
Sanctioned by the Management/Society or Other Authorized Bodies				16
Recruited	12	4	0	16
Yet to Recruit				0

**Qualification Details of the Teaching Staff**

<b>Permanent Teachers</b>										
<b>Highest Qualification</b>	<b>Professor</b>			<b>Associate Professor</b>			<b>Assistant Professor</b>			<b>Total</b>
	Male	Female	Others	Male	Female	Others	Male	Female	Others	
D.sc/D.Litt.	0	0	0	0	0	0	0	0	0	0
Ph.D.	20	1	0	1	2	0	2	2	0	28
M.Phil.	0	0	0	2	1	0	15	7	0	25
PG	4	4	0	15	9	0	115	31	0	178

<b>Temporary Teachers</b>										
<b>Highest Qualification</b>	<b>Professor</b>			<b>Associate Professor</b>			<b>Assistant Professor</b>			<b>Total</b>
	Male	Female	Others	Male	Female	Others	Male	Female	Others	
D.sc/D.Litt.	0	0	0	0	0	0	0	0	0	0
Ph.D.	0	0	0	0	0	0	0	0	0	0
M.Phil.	0	0	0	0	0	0	0	0	0	0
PG	0	0	0	0	0	0	0	0	0	0

<b>Part Time Teachers</b>										
<b>Highest Qualification</b>	<b>Professor</b>			<b>Associate Professor</b>			<b>Assistant Professor</b>			<b>Total</b>
	Male	Female	Others	Male	Female	Others	Male	Female	Others	
D.sc/D.Litt.	0	0	0	0	0	0	0	0	0	0
Ph.D.	0	0	0	0	0	0	0	0	0	0
M.Phil.	0	0	0	0	0	0	0	0	0	0
PG	0	0	0	0	0	0	0	0	0	0

<b>Details of Visting/Guest Faculties</b>					
<b>Number of Visiting/Guest Faculty engaged with the college?</b>	<b>Male</b>		<b>Female</b>		<b>Total</b>
	10		0		10

**Provide the Following Details of Students Enrolled in the College During the Current Academic Year**

Programme		From the State Where College is Located	From Other States of India	NRI Students	Foreign Students	Total
Doctoral (Ph.D)	Male	1	0	0	0	1
	Female	6	0	0	0	6
	Others	0	0	0	0	0
UG	Male	838	4	0	0	842
	Female	469	1	0	0	470
	Others	0	0	0	0	0
PG	Male	122	0	0	0	122
	Female	184	0	0	0	184
	Others	0	0	0	0	0

<b>Provide the Following Details of Students admitted to the College During the last four Academic Years</b>					
<b>Programme</b>		<b>Year 1</b>	<b>Year 2</b>	<b>Year 3</b>	<b>Year 4</b>
SC	Male	79	63	42	32
	Female	50	51	33	14
	Others	0	0	0	0
ST	Male	0	0	2	0
	Female	0	1	0	0
	Others	0	0	0	0
OBC	Male	169	187	179	189
	Female	108	132	131	74
	Others	0	0	0	0
General	Male	10	24	8	13
	Female	19	7	9	10
	Others	0	0	0	0
Others	Male	0	0	0	0
	Female	0	0	0	0
	Others	0	0	0	0
<b>Total</b>		<b>435</b>	<b>465</b>	<b>404</b>	<b>332</b>



### 3. Extended Profile

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#### 3.1 Programme

**Number of courses offered by the institution across all programs during the last five years**

**Response : 22**

**Number of self-financed Programmes offered by college**

**Response : 22**

**Number of new programmes introduced in the college during the last five years**

**Response : 9**

#### 3.2 Student

**Number of students year wise during the last five years**

2016-17	2015-16	2014-15	2013-14	2012-13
1666	1764	1942	2143	2076

**Number of seats earmarked for reserved category as per GOI/State Govt rule year wise during the last five years**

2016-17	2015-16	2014-15	2013-14	2012-13
546	546	614	566	517

**Number of outgoing / final year students year wise during the last five years**

2016-17	2015-16	2014-15	2013-14	2012-13
528	610	585	599	580

**Total number of outgoing / final year students**

**Response : 332**

#### 3.3 Academic

**Number of teachers year wise during the last five years**

2016-17	2015-16	2014-15	2013-14	2012-13
213	215	207	208	194

**Number of full time teachers year wise during the last five years**

2016-17	2015-16	2014-15	2013-14	2012-13
213	215	207	208	194

**Number of sanctioned posts year wise during the last five years**

2016-17	2015-16	2014-15	2013-14	2012-13
213	215	207	208	194

**Total experience of full-time teachers****Response : 1785****Number of teachers recognized as guides during the last five years****Response : 9****Number of full time teachers worked in the institution during the last 5 years****Response : 535****3.4 Institution****Total number of classrooms and seminar halls****Response : 65****Total Expenditure excluding salary year wise during the last five years ( INR in Lakhs)**

2016-17	2015-16	2014-15	2013-14	2012-13
808.64	810.28	804.03	904.86	858.23

**Number of computers**

**Response : 550**

**Unit cost of education including the salary component(INR in Lakhs)**

**Response : 0.801**

**Unit cost of education excluding the salary component(INR in Lakhs)**

**Response : 0.427**

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## 4. Quality Indicator Framework(QIF)

### Criterion 1 - Curricular Aspects

#### 1.1 Curricular Planning and Implementation

##### 1.1.1 The institution ensures effective curriculum delivery through a well planned and documented process

##### Response:

- Based on the curriculum prescribed by the Anna University, the Institution prepares the Academic Calendar incorporating the number of working days, internal and external Examination schedule and departmental activities such as conduct of workshops, seminars, conferences etc.
  - The subjects are being allocated to the faculty members in advance for preparation of Lesson plan, Course notes, Laboratory Manual, Assignment Questions, Model Question Bank etc., and are scrutinized by the senior faculty members.
  - Monitoring of course delivery and syllabus completion through formal and informal feedbacks.
  - Feedback are considered with utmost importance and required changes are incorporated.
  - Class committee meetings are carried out every month with Chairperson, HoD, faculty members along with student representatives to discuss the completion of laboratory and theory syllabi, attendance and internal assessment marks.
  - Internal assessments are conducted as per Anna University schedule.
  - Remedial classes are conducted after the college hours for slow learners.
  - Concurrent Audit is carried out to check the coverage of syllabus as per the lesson plan.
  - Academic Audit will be conducted at the end of every semester to verify course file.
  - Conduct and Participation of faculty members in FDPs
  - Faculty empowerment programme conducted by Mission 10X, Wipro, Bangalore.
  - Faculty members are trained on TCS iON platform for teaching learning process.
  - Libraries equipped with Latest editions, Journals and Periodicals
  - Guest lectures, seminars, workshops, Industrial visits and training programmes are arranged to meet the short falls of curriculum.
  - The institution, as a policy, ensures that even the faculty members new to teaching participate in the research activities.
  - Encourage students to do innovative project work through Peer Group.
  - Motivating students for doing research work and present papers in seminars and conferences and to publish in journals.
- 
- The institution has adopted “**outcome based approach**” for the effective delivery of the curriculum. In this concern, the setting of the assessment question papers is designed to confirm the attainment of course outcomes.
  - Faculty members with desirable qualifications and experience are appointed to the respective departments for effective curriculum delivery.
  - Remuneration and Stay on Campus for the teaching faculty are appropriately provided for best possible retention.
  - Entry level Faculty members are evaluated on precise subject delivery by a team of senior professors and motivate them for effective curriculum delivery..

- Faculty members are sponsored for STTP, FDP etc.,
- Support for Expert Guest Lectures delivery on subjects beyond the syllabus.
- Training on Evolving Teaching Methodology through Software and Video presentation.
- Stakeholders Feedback provides suggestions for the improvement of the teaching – learning process.
- MoUs are signed with leading Industries, research laboratories and Universities
- Bridging Industry –Institution gap, fillup through organizing suitable value added programmes .
- Each department has an advisory board with representation from Industry and research organizations for constant feedback to deliver contemporary curriculum.

### 1.1.2 Number of certificate/diploma program introduced during the last five years

Response: 0

#### 1.1.2.1 Number of certificate/diploma programs introduced year wise during the last five years

2016-17	2015-16	2014-15	2013-14	2012-13
0	0	0	0	0

File Description	Document
Details of the certificate/Diploma programs	<a href="#">View Document</a>

### 1.1.3 Percentage of participation of full time teachers in various bodies of the Universities/ Autonomous Colleges/ Other Colleges, such as BoS and Academic Council during the last five years

Response: 2.01

#### 1.1.3.1 Number of teachers participating in various bodies of the Institution, such as BoS and Academic Council year wise during the last five years

2016-17	2015-16	2014-15	2013-14	2012-13
7	5	3	3	3

File Description	Document
Details of participation of teachers in various bodies	<a href="#">View Document</a>

## 1.2 Academic Flexibility

**1.2.1 Percentage of new courses introduced of the total number of courses across all programs offered during the last five years****Response:** 40.91

1.2.1.1 How many new courses are introduced within the last five years

Response: 9

**File Description****Document**

Details of the new courses introduced

[View Document](#)**1.2.2 Percentage of programs in which Choice Based Credit System (CBCS)/Elective course system has been implemented****Response:** 100

1.2.2.1 Number of programs in which CBCS/ Elective course system implemented.

Response: 20

**File Description****Document**

Name of the programs in which CBCS is implemented

[View Document](#)**1.2.3 Average percentage of students enrolled in subject related Certificate/ Diploma programs/Add-on programs as against the total number of students during the last five years****Response:** 0

1.2.3.1 Number of students enrolled in subject related Certificate or Diploma or Add-on programs year wise during the last five years

2016-17	2015-16	2014-15	2013-14	2012-13
0	0	0	0	0

**File Description****Document**

Details of the students enrolled in Subjects related to certificate/Diploma/Add-on programs

[View Document](#)**1.3 Curriculum Enrichment****1.3.1 Institution integrates cross- cutting issues relevant to Gender, Environment and Sustainability,**

**Human Values and Professional Ethics into the Curriculum****Response:**

The institute accentuates on cross-cutting issues relevant to gender, Environment and Sustainability, Human Values and Professional Ethics into the Curriculum by core / elective courses,

S. No	Core Courses	Year of Study
1.	Environmental Science & Engineering	III year ECE, AE, CSE, BME, Mech, Civil II year EEE, Biotech
2.	Professional Ethics	Final year students of all Engineering & Technology branches II year MCA
3.	Principles of Management (Human Values)	Final year students of B.E Civil, ECE, EEE, Biomedical Mechanical, Automobile Engineering, MBA First year
4.	Bioethics	Final year B.Tech., Biotechnology
5.	Business Ethics, Corporate Social Responsibility and Governance	Master of Business Administration
6.	Total Quality Management	All Engineering and Technology Students

**Gender Issue**

Topic	Enrichment Activity	No of Hours per Year	Target Participants	Outcomes
Women Empowerment / Women Rights	Motivational talks through Guest Lecturers	3	Staff members and III & IV year girl students	Awareness of rights, & Final
Gender equality	Group Discussions - Role of media/ Social Networking sites by Soft skills Trainers	4	II and III year students	Reflect on esteem
Multiple roles of women in society	Skit contest	2	I, II, III & IV year students	Awareness of women
Decision Making for Women	Solving issues during critical situations	2	II & III Year students	Logical

Women Uniting for Peace, Women in the Twentieth Century, Women as political leaders and technologists	Women's day celebration –Recreational competitions	3	All staff members and students	Leaders Manag
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Topic	Enrichment activities	No. of hours per year	Target participants	Outcom
<ul style="list-style-type: none"> <li>· Save our earth</li> <li>· Climate change</li> <li>· Global warming</li> <li>· Road Safety rules</li> </ul>	Role plays, essay writing, public speaking, Rallies	10	I, II and III year students	Awarene pollution
<ul style="list-style-type: none"> <li>· Waste management</li> <li>· Avoiding usage of plastics</li> <li>· Save water</li> <li>· Rainwater harvesting</li> <li>· Go green</li> </ul>	Environment cleanliness, live demos, planting saplings	5	I, II, III and IV year students	Protectio sustainin environm
<ul style="list-style-type: none"> <li>· Rally</li> <li>· Human chain</li> <li>· Cleanliness campaign</li> </ul>	Outdoor activity	30	I, II, III & IV year students	Creating neighbo socialres

S.No	Activity	No. of Hours per year	Year
1	Awareness Rallies on Environmental Pollution and management	16	From 2013 onwards
2	Regular Guest Lectures on Environmental issues and management	6	From 2014 onwards
3	Awareness programmes (Skits, Lectures) on Gender Issues	10	From 2014 onwards
4	Regular Guest Lectures on Women Empowerment and Human Rights	4	From 2015 onwards
5	Awareness programmes (Rallies & Conferences) on Climate Change	30	From 2015 onwards

**1.3.2 Number of valued added courses imparting transferable and life skills offered during the last five years****Response:** 41

1.3.2.1 Number of value-added courses imparting transferable and life skills offered during the last five years

Response: 41

**File Description****Document**

Details of the value-added courses imparting transferable and life skills

[View Document](#)**1.3.3 Percentage of students undertaking field projects / internships****Response:** 43.46

1.3.3.1 Number of students undertaking field projects or internships

Response: 711

**File Description****Document**

Institutional data in prescribed format

[View Document](#)**1.4 Feedback System****1.4.1 Structured feedback on curriculum obtained from 1) Students 2) Teachers 3) Employers 4) Alumni 5) Parents For design and review of syllabus semester wise/ year wise****A.Any 4 of the above****B.Any 3 of the above****C. Any 2 of the above****D. Any 1 of the above****Response:** A.Any 4 of the above

File Description	Document
Action taken report of the Institution on feedback report as stated in the minutes of the Governing Council, Syndicate, Board of Management	<a href="#">View Document</a>
URL for stakeholder feedback report	<a href="#">View Document</a>

**1.4.2 Feedback processes of the institution may be classified as follows:**

**A. Feedback collected, analysed and action taken and feedback available on website**

**B. Feedback collected, analysed and action has been taken**

**C. Feedback collected and analysed**

**D. Feedback collected**

**Response:** B. Feedback collected, analysed and action has been taken

## Criterion 2 - Teaching-learning and Evaluation

### 2.1 Student Enrollment and Profile

#### 2.1.1 Average percentage of students from other States and Countries during the last five years

**Response:** 2.65

##### 2.1.1.1 Number of students from other states and countries year wise during the last five years

2016-17	2015-16	2014-15	2013-14	2012-13
7	30	42	74	114

#### File Description

#### Document

List of students (other states and countries)

[View Document](#)

Institutional data in prescribed format

[View Document](#)

#### 2.1.2 Average Enrollment percentage (Average of last five years)

**Response:** 61.05

##### 2.1.2.1 Number of students admitted year wise during the last five years

2016-17	2015-16	2014-15	2013-14	2012-13
480	504	428	606	734

##### 2.1.2.2 Number of sanctioned seats year wise during the last five years

2016-17	2015-16	2014-15	2013-14	2012-13
894	894	999	924	846

#### File Description

#### Document

Institutional data in prescribed format

[View Document](#)

#### 2.1.3 Average percentage of seats filled against seats reserved for various categories as per applicable reservation policy during the last five years

**Response:** 55.63

2.1.3.1 Number of actual students admitted from the reserved categories year wise during the last five years

2016-17	2015-16	2014-15	2013-14	2012-13
202	253	271	381	431

File Description	Document
Institutional data in prescribed format	<a href="#">View Document</a>

## 2.2 Catering to Student Diversity

**2.2.1 The institution assesses the learning levels of the students, after admission and organises special programs for advanced learners and slow learners**

**Response:**

The institution assesses the learning levels of the students by evaluating their performances in class tests, internal assessments, model examination and other co-curricular activities. The special programs and activities are organized as below:

### Advanced Learners

- Based on the performance in the class tests, internal assessment, model examination and other co-curricular activities, the advanced learners are identified in all the four years of U.G curriculum and special classes were organized for them with senior faculty members, corporate experts and research scientists for providing advanced technical knowledge.
- “Z” mentoring for advanced learners in all the departments by special mentors to make them ambitious about career planning.
- It makes them as individuals with special abilities like problem-solving, decision making and analytical reasoning skills in their respective peer group projects.
- The institution provides membership cards of British Council Library to access the academic e-resources.
- Coaching classes are conducted for the competitive examinations, viz GATE/TANCET/GRE/TOEFL/GMAT/CAT etc.
- Institution encourages and provides registration fee for advanced learners to participate and present papers and posters in conferences/Seminars.
- Institution encourages the faculty members to accommodate advanced learners in their research and developmental activities.

### Slow Learners

- Coaching classes are conducted after regular class hours on each unit of the syllabus and their

progress is monitored through Unit Assessments, Daily First hour tests and Short Answer Tests conducted regularly.

- Solved Exercises are provided to make familiarity with relevant topics for better understanding and performance in all assessments.
- Special mentoring and counseling are given for radical improvement in developing confidence level.

### 2.2.2 Student - Full time teacher ratio

**Response:** 6.79

File Description	Document
Institutional data in prescribed format	<a href="#">View Document</a>

### 2.2.3 Percentage of differently abled students (Divyangjan) on rolls

**Response:** 0.06

#### 2.2.3.1 Number of differently abled students on rolls

**Response:** 1

File Description	Document
Institutional data in prescribed format	<a href="#">View Document</a>

## 2.3 Teaching- Learning Process

**2.3.1 Student centric methods, such as experiential learning, participative learning and problem solving methodologies are used for enhancing learning experiences**

**Response:**

#### **Student – Centric Method**

The following methodologies are used;

#### **Experiential learning**

- Laboratory experiments as per curriculum are carried out by the students.
- Institution encourages students to involve in peer group projects and Design contest through which they transform into practically skilled individuals.
- Novel and innovative peer group projects implementation provide them better experiential learning by sharing their knowledge.
- The institution provides all the facilities available in the lab to students for extensive use over and above the curriculum to enhance their experiential learning.

- Institution constantly supports all the faculty members to involve in research and developmental activities along with student involvement.
- Workshops, hands-on training, and group discussions are organized in order to exchange practical knowledge and skills.
- Onsite Internships, In-plant training, visits to industries and institute of higher education and research to enable the students to become industry ready.

### **Participative learning**

- Classroom teaching is done in a more interactive way
- The faculty members use different methodologies such as power point presentations, group discussion, illustrations and demonstrations to grab the attention of the students.
- Application-oriented teaching is provided to the students which makes them apply the subject knowledge practically.
- Student - mentor interaction helps to identify progress in academic performance, grievances in teaching-learning exchange and personal problems.
- Participative learning is supported by peer group projects and mini projects by undergraduate students in design, fabrication and testing of novel and innovative techniques in their respective discipline of study for evaluation.
- During peer group project development, students generate their innovative ideas and share their knowledge mutually.
- Organizing Seminars, Value added courses, technical presentations, workshops, hands-on training and group discussions for the students to exchange their knowledge, experience, and skills.
- Identifying the advanced learners and collaborating them with the slow learners in order to make a strong community to transfer ideas on all grounds like peer bonding, event management, ice breaking, outreach, etc., among students.

### **Problem-solving methodologies**

- Peer groups kindle the interest of the students in their relevant field to innovate and implement new ideas against problems that are socially beneficial to the mankind.
- The advanced learners are exposed to problem-solving and decision making process with logical thinking and analytical reasoning skills in peer group projects.
- Students involvement in peer group projects leading to the development of products/prototypes with real-time applications guided by the faculty members.
- Research aptitude among the students is developed through interaction with Senior Professors and Guest faculty, by referring to current journals and periodicals and participation in Seminars and Conferences

#### **2.3.2 Percentage of teachers using ICT for effective teaching with Learning Management Systems (LMS), E-learning resources etc.**

**Response:** 76.76

##### **2.3.2.1 Number of teachers using ICT**

**Response:** 185

File Description	Document
List of teachers (using ICT for teaching)	<a href="#">View Document</a>

### 2.3.3 Ratio of students to mentor for academic and stress related issues

**Response:** 7.4

#### 2.3.3.1 Number of mentors

Response: 221

File Description	Document
Year wise list of number of students, full time teachers and students to mentor ratio	<a href="#">View Document</a>

### 2.3.4 Innovation and creativity in teaching-learning

**Response:**

#### Details of innovative teaching approaches/methods

- For MBA & MCA courses, the teaching methodology includes live demos on marketing, Management games, Role plays, Case studies, Entrepreneurship Development Programmes etc.,
- NPTEL video lectures, Simulation software, smart classrooms and Model charts in the laboratory are used.
- Edusat facility is available for the students with lectures delivered on identified subjects on regular slots by Anna University senior faculty members of all departments.
- Students of Biomedical Engineering are being exposed to live demonstration of medical equipment in Karpaga Vinayaga Institute of Medical Sciences for better understanding about the functioning and applications of medical equipment.
- Students of Biotechnology are visiting the live agricultural fields to understand the applications and effects of bio-fertilizers on total yield.
- Working prototype models in Automobile & Mechanical Engineering and fabricated PCBs and robots in Electrical, Electronics & Communication Engineering are demonstrated in the classrooms.
- TCSiON innovative platform for uploading contents, Powerpoint presentations & technical notes and media for enhancement of learning for the student community.

#### Efforts made to encourage the faculty to adopt innovative approaches

- Faculty Development Programmes are organized in collaboration with NITTTR, Chennai to adopt and implement innovative approaches to teaching methodologies.
- Faculty members are encouraged to attend conferences/workshops/ training and FDP programmes organized by Universities and National Institutes and affiliating University.
- The institution procured licensed software tools for engineering and technology, PCs with high-speed internet facility, hi-tech solar-powered automobiles for Automobile workshops, latest bio-medical equipment, latest technical books and IEEE online periodicals, Total station, and GPS for



advanced surveying for faculty members to adopt innovative approaches in teaching.

- Faculty members are encouraged to register for Ph.D., there by they are working in innovative research areas.

## 2.4 Teacher Profile and Quality

### 2.4.1 Average percentage of full time teachers against sanctioned posts during the last five years

**Response:** 100

File Description	Document
Year wise full time teachers and sanctioned posts for 5 years	<a href="#">View Document</a>

### 2.4.2 Average percentage of full time teachers with Ph.D. during the last five years

**Response:** 11.66

#### 2.4.2.1 Number of full time teachers with Ph.D. year wise during the last five years

2016-17	2015-16	2014-15	2013-14	2012-13
28	22	25	25	21

File Description	Document
List of number of full time teachers with PhD and number of full time teachers for 5 years	<a href="#">View Document</a>

### 2.4.3 Teaching experience of full time teachers in number of years

**Response:** 7.41

File Description	Document
List of Teachers including their PAN, designation,dept and experience details	<a href="#">View Document</a>

### 2.4.4 Average percentage of full time teachers who received awards, recognition, fellowships at State, National, International level from Government, recognised bodies during the last five years

**Response:** 0.09

#### 2.4.4.1 Number of full time teachers receiving awards from state /national /international level from

Government recognised bodies year wise during the last five years

2016-17	2015-16	2014-15	2013-14	2012-13
1	0	0	0	0

File Description	Document
Institutional data in prescribed format	<a href="#">View Document</a>

### 2.4.5 Average percentage of full time teachers from other States against sanctioned posts during the last five years

**Response:** 2.02

2.4.5.1 Number of full time teachers from other states year wise during the last five years

2016-17	2015-16	2014-15	2013-14	2012-13
5	4	6	3	3

File Description	Document
List of full time teachers from other state and state from which qualifying degree was obtained	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

## 2.5 Evaluation Process and Reforms

### 2.5.1 Reforms in Continuous Internal Evaluation(CIE) system at the institutional level

**Response:**

All the information regarding the evaluation process is printed in the handbook and circulated to all stakeholders.

- Further changes in evaluation process or pattern, circular is sent to all stakeholders from time to time.
- Academic schedule is prepared and circulated for conduct of Internal Assessments and Assignments.
- On the Fresher's Day, the stakeholders, students and parents, are made aware of the internal evaluation process.
- An Induction programme is conducted for the freshers during the first week of the academic year in

which the information on Internal marks calculation based on the cycle test, model examinations and the Examination pattern of the University with attendance requirements are detailed.

- The Exam cell of the institution takes responsibility of delivering the above information to the students.
- The progress in Internal assessments and attendance are periodically communicated to the parents by post, telephone and SMS.
- Class Committee meeting is conducted with faculty members and student representatives by the Chairperson of the Committee for improvements in teaching and evaluation process.
- Attendance is regularly updated in the Anna University web portal as per the prescribed dates given by the University.

### **The evaluation reforms of the Institution**

In addition to the University reforms of evaluation, the institution follows a separate evaluation pattern for internal assessment. They are;

- First hour test is conducted on all working days which helps in identifying the student's potential.
- Internal assessments and assignments are conducted for the students for all the subjects in every semester and evaluated.
- The evaluation of the performance of the students is used to segregate the slow learners who are given special coaching classes after college working hours.
- Concurrent Internal Audit for all departments is conducted on regular intervals.
- Short Answer Test is conducted for all the subjects before model examinations to aid students for thorough revisions of all the chapters.
- The internal audit committee regularly scrutinize the test papers and suggestions for improvement are given to the faculty members and students for necessary changes.
- The college is powered by TCS iON SOLUTIONS which is a platform to upload the internal assessment marks, attendance, time table, lesson plan, course notes, question banks, etc which can be viewed both by the student and staff communities.

### **2.5.2 Mechanism of internal assessment is transparent and robust in terms of frequency and variety**

#### **Response:**

#### **Formative assessment approaches**

- First-hour daily test
- Internal Assessment test I & II
- Evening Coaching Class Test
- The results of the above tests are dispatched to the parent stakeholders through postal letters and uploaded on TCS ION SOLUTIONS platform.

#### **Summative assessment approaches**

- Model Examination (Theory & Practical)
- Short Answer Test

- University Examination

**Internal Mark calculation**

- Internal mark of 20 is calculated by Anna University Web portal (from 300 entered by the Institute) and added to 80 of the external mark (from 100 marks in University examinations) for the final sum of 100 marks.
- Institute gives weightage in all the assessment activities viz Internal assessment I, II and Model examinations.
- Rigor and transparency followed in this evaluation system made our students perform well in their university examinations and came out well.

File Description	Document
Any additional information	<a href="#">View Document</a>

**2.5.3 Mechanism to deal with examination related grievances is transparent, time-bound and efficient**

**Response:**

**College level Grievance redressal mechanism**

- Students can approach the respective faculty members for all the subjects if any clarification is needed related to evaluation.
- The conduct of examinations is taken care by the institution's Examination Cell and is solely responsible for redressing the grievances if any.
- Students can also approach the HODs concerned and Head of the Institution in case of unsolved grievances related to examination and evaluation.
- The interaction with the affiliating University related to examination and evaluation is fully monitored by the Principal with the assistance of Examination Cell.

**University level Grievance redressal mechanism**

- Institution follows the defined process and procedure for evaluation prescribed by the University
- A separate mechanism has been implemented by the University to handle the needs for the students.
- Affiliating University has given provision to the students to apply for photocopies of the answer scripts.
- Opportunity is also provided to the students to go for Challenging the evaluation in case of discrepancies in the re- valuation process and at the end, Challenge evaluation fee is reimbursed to the students in case of improvement in the grades in comparison to the first evaluation

#### **2.5.4 The institution adheres to the academic calendar for the conduct of CIE**

##### **Response:**

The college is affiliated to Anna University; therefore, the college abides by the protocol structured by the University to prepare the academic calendar.

##### **Academic calendar**

At the commencement of every academic year the college plans and distributes an academic calendar for U.G and P.G courses according to the guidelines given by the Anna University. The academic calendar comprises the following details

- Commencement of the classes
- Class committee meeting schedule
- Internal Examination schedule
- University theory and practical examination
- List of holidays
- Last working day of the semester

##### **Teaching plan**

- The HOD allots the subjects to the faculty members based on their interest and expertise.
- The time table coordinator prepares the time table and after approval of the Principal, circulates to the students and is posted on the concerned department notice board.
- Lesson plan is prepared subject wise/unit wise by the course instructors.
- The lesson plan comprises course objectives, contents to be covered, teaching aids, number of teaching hours.
- The classroom teaching and laboratory practice is carried out as per the plan.
- Deadline for syllabus completion is given in the schedule in order to ensure portion completion and ample time is given to train the weaker students.

##### **Notes of Lesson**

- Notes are prepared based on the Anna University syllabus covering the units I, II, III, IV & V.
- Text books and Reference books, as per syllabus, are made available in the library for reference.
- Comprehensive hand written notes and PowerPoint presentations are prepared by the staff members and are circulated to the students.

##### **Question Bank**

- The question bank is prepared for each unit and the template consists of

Part A – 30 questions per unit

Part B – 10 questions per unit

- It contains model University question papers (solved) and most possible questions from each unit

framed from the previous year university exams.

- Hard copies / soft copies of the question bank are distributed to the students after the completion of each unit.

### **Assignments**

- For each subject 3 assignments are given before the commencement of internal assessment test.
- The assignment questions are prepared based on the following:
- Assignment – I comprises of portions covered in Units I & II
- Assignment –II comprises of portions covered in Units III & IV
- Assignment –III comprises of portions covered in Unit V
- The students are to submit the assignments before the commencement of each internal assessment test.
- The Assignment is evaluated for 100 marks.

### **Evaluation pattern**

- Internal assessment test, Short Answer test, Model exams are conducted as per the schedule.
- Each test is evaluated and performance of the students is analyzed.
- Class committee meeting is conducted internally by the chairperson of the committee including HOD, faculty members & student class committee members.
- During the meeting, student's performance and their requirements are discussed and accordingly steps are taken to overcome the shortfalls if any in the teaching – learning process.
- Remedial classes are conducted for slow learners after college hours.
- Tutorial classes are arranged for complicated/analytical subjects.

## **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 on website and communicated to teachers and students**

**Response:**

### **Mechanism of Communication**

- Programme Outcomes and Programme Specific Outcomes were published in the institute website which is open to all the stakeholders.
- Departmentwise Programme Outcomes are displayed as wallmounts in the respective floors of the institution.
- Course file containing course material and lesson plan for each subject is prepared by the faculty members with PO & CO and are circulated among students.
- Laboratory manuals are prepared with the defined course outcome and are circulated to all the students and a reference copy will be kept in the lab for the purpose of reference.

File Description	Document
COs for all courses (exemplars from Glossary)	<a href="#">View Document</a>

### 2.6.2 Attainment of program outcomes, program specific outcomes and course outcomes are evaluated by the institution

#### Response:

The institution has an exclusive evaluation method for the determination of attainment of Programme Outcomes, Programme Specific Outcomes and Course Outcomes for all the departments including UG and PG through direct and Indirect methods.

This calculation includes the data from Internal assessments of students, University results, Employer Surveys, Alumni surveys, Parent Survey, Teacher Survey and industrial advisory committee meetings. Each data will be given with specific weightage for the POs, PSOs and COs attainment calculation.

The behavior of the graduates after graduation depends on the extent to which they are moulded while doing their programme. Invariably, the POs and PSOs expect technical competency of the graduates along with social and ethical responsibilities, life-long learning, team work etc., Therefore, the assessment tools for the attainment of POs and PSOs require certain direct measurements while they are doing the programme and some indirect measurements while they are practicing their profession.

The direct assessment includes the following:

Attainment of course outcomes.  
Attainment of POs through curriculum  
The performance in

- Academics (% of pass)
- Placement process

The indirect assessments are carried out through meaningful surveys from

- Alumni
- Employer
- Parents
- Students and Teachers

1. Course End Survey
2. Programme Exit Survey

The survey questionnaire to reflects the following components as envisaged in the Graduate Attributes and Programme Outcomes.

- Professional Competency

- Providing solution to engineering problems
- Higher studies/Life-long learning
- Ability to work in a team
- Social and Ethical responsibility

Below mentioned flow chart explains the method of Outcome Based Education (OBE) practice in all the programme.

It consists of two “Loops” to take care of the attainments of COs, POs and PSOs.

The first “Loop” is for the assessment of COs attainment. Attainments of course outcomes are measured at the end of every semester and are compared with the threshold level. If the COs target level are not achieved, corrective measures are proposed and implemented in the subsequent semester. This ensures continuous improvement at the course level and the attainment of COs.

The second “Loop” is for the assessment of POs and PSOs attainment and is carried out every year exclusively for final years. Based on the level of attainment, corrective measures are proposed and implemented. This again ensures continuous effort to improve the attainments of COs as well as POs and PSOs.

File Description	Document
Any additional information	<a href="#">View Document</a>

### 2.6.3 Average pass percentage of Students

**Response:** 64.23

2.6.3.1 Total number of final year students who passed the university examination

Response: 1864

2.6.3.2 Total number of final year students who appeared for the examination

Response: 2902

File Description	Document
Institutional data in prescribed format	<a href="#">View Document</a>

## 2.7 Student Satisfaction Survey

**2.7.1 Online student satisfaction survey regarding teaching learning process**

**Response:**



<b>File Description</b>	<b>Document</b>
Database of all currently enrolled students	<a href="#">View Document</a>

NAAC

## Criterion 3 - Research, Innovations and Extension

### 3.1 Resource Mobilization for Research

**3.1.1 Grants for research projects sponsored by government/non government sources such as industry ,corporate houses, international bodies, endowment, chairs in the institution during the last five years**

**Response:** 52.22

3.1.1.1 Total Grants for research projects sponsored by the government/non-government sources such as industry, corporate houses, international bodies, endowments, Chairs in the institution year wise during the last five years(INR in Lakhs)

2016-17	2015-16	2014-15	2013-14	2012-13
14.57	2.5	32.55	0.3	2.3

#### File Description

#### Document

List of project and grant details

[View Document](#)

**3.1.2 Percentage of teachers recognised as research guides at present**

**Response:** 3.73

3.1.2.1 Number of teachers recognised as research guides

Response: 9

#### File Description

#### Document

Institutional data in prescribed format

[View Document](#)

Any additional information

[View Document](#)

**3.1.3 Average number of research projects per teacher funded by government and non government agencies during the last five years**

**Response:** 0.02

3.1.3.1 Number of research projects funded by government and non-government agencies during the last five years

Response: 13

File Description	Document
List of research projects and funding details	<a href="#">View Document</a>
Supporting document from Funding Agency	<a href="#">View Document</a>

## 3.2 Innovation Ecosystem

### 3.2.1 Institution has created an ecosystem for innovations including incubation centre and other initiatives for creation and transfer of knowledge

#### Response:

- Institution has created an ecosystem for innovations, implementation of ideas and transfer of knowledge. AICTE has granted financial assistance of Rs. 4 lakhs during the academic year 2012-2013 to establish the Entrepreneurship Development Cell and ED Cell has been established.
- Periodically Entrepreneurship Development Programmes are organized by EDC. Every year Entrepreneur's day is celebrated with the exhibition of student's innovative products.
- Industrial experts are periodically visiting the campus to interact with students and exchange innovative ideas.
- Students are also taking part in product display exhibition.
- Institute provides all necessary infrastructural facilities and arrangements to students to work on their innovative ideas.
- Thereby an innovative ecosystem is created and the college extends an opportunity for the knowledge transfer
- The college is situated in a popular industrial hub (Maraimalai Nagar, Siruseri SIPCOT, Sriperumpudur, etc.), which enable the students and faculty to have frequent interaction with industry to implement their innovative projects.

#### A few innovations are:

- Solar powered car has been designed by the students of Automobile Engineering in the year 2015-16.
- Mini bike has been designed by the students of Automobile Engineering and won first place in National Mini Bike design contest on Self balancing Two wheeler held at Karpagam College of Engineering, Coimbatore on 23rd, September, 2016.
- Mini bike has been designed by the students of Automobile Engineering and won first place in National Mini Bike design contest on design and fabrication of solar Bike held at Karpagam College of Engineering, Coimbatore on 11th, September, 2015.
- Cow horn manure is an innovative product developed by Dr. V. Karthikeyan, HOD/Biotech in the year 2013-14.
- Mini heater designed and fabricated by Mr. Sathyan, ECE student in the year 2012-13 and won Limca Award.
- A herbal formulation was developed by Dr. K. Jayaprakash, Prof/Biotech for the prevention of occupational health hazard among cashew nut women workers in the year 2012-13.

**3.2.2 Number of workshops/seminars conducted on Intellectual Property Rights (IPR) and Industry-Academia Innovative practices during the last five years****Response:** 13

3.2.2.1 Total number of workshops/seminars conducted on Intellectual Property Rights (IPR) and Industry-Academia Innovative practices year wise during the last five years

2016-17	2015-16	2014-15	2013-14	2012-13
3	3	2	2	3

**File Description****Document**

List of workshops/seminars during the last 5 years

[View Document](#)**3.3 Research Publications and Awards****3.3.1 The institution has a stated Code of Ethics to check malpractices and plagiarism in Research****Response:** Yes**File Description****Document**

Institutional data in prescribed format

[View Document](#)

Any additional information

[View Document](#)**3.3.2 The institution provides incentives to teachers who receive state, national and international recognition/awards****Response:** Yes**File Description****Document**

List of Awardees and Award details

[View Document](#)

e- copies of the letters of awards

[View Document](#)**3.3.3 Number of Ph.D.s awarded per teacher during the last five years****Response:** 1.56

3.3.3.1 How many Ph.Ds awarded within last five years

Response: 14

File Description	Document
List of PhD scholars and their details like name of the guide , title of thesis, year of award etc	<a href="#">View Document</a>

### 3.3.4 Number of research papers per teacher in the Journals notified on UGC website during the last five years

**Response:** 0.06

3.3.4.1 Number of research papers in the Journals notified on UGC website during the last five years

2016-17	2015-16	2014-15	2013-14	2012-13
21	17	8	8	6

File Description	Document
List of research papers by title, author, department, name and year of publication	<a href="#">View Document</a>

### 3.3.5 Number of books and chapters in edited volumes/books published and papers in national/international conference proceedings per teacher during the last five years

**Response:** 0.31

3.3.5.1 Total number of books and chapters in edited volumes / books published, and papers in national/international conference-proceedings year wise during the last five years

2016-17	2015-16	2014-15	2013-14	2012-13
94	100	88	32	11

File Description	Document
List books and chapters in edited volumes / books published	<a href="#">View Document</a>

## 3.4 Extension Activities

3.4.1 Extension activities in the neighbourhood community in terms of impact and sensitising students to social issues and holistic development during the last five years

**Response:**

The Institution promotes neighborhood community & social works and students are engaged through the following activities:

**National Service Scheme (NSS)**

The NSS students have created a network with neighborhood community and carry out social works, such as

Rally programmes on the theme of “Save Electricity”, “Voter Awareness”, "Road Safety", “Eradication of Plastics”, etc. Every year KVCET conduct 7 days special camp in the adopted villages, Malai Vaiyavoor, Vaiyavoor, Chithanachery and Kunnakulathur in which painting school blackboards, cleaning the roads and temples, conducting sports and computer education are carried out.

Planting of saplings, Blood donation, Dental and Health awareness camps were conducted at KVCET and in adopted villages.

Motivational talks given by Wing Commander Mr. Deepak Bhat IAF, Tambaram and Captain K.V.Mahadevan, INS, Adyar to our college students on serving the nation through Navy.

Swachh Bharat and Swachh Pakhwada awareness programmes organized in Chengalpet, Uthiramerur and Achirapakkam towns.

Anna University, Chennai has recognized NSS activities and Best NSS Unit Award was given in the year 2014-15 and Best NSS Volunteer Award has been received successfully for the past five years.

**Youth Red Cross (YRC)**

YRC activities are conducted to nurture Leadership skills, professional development and social responsibilities in the students. Our student volunteers donated blood for the needy people through the blood bank at KIMS Hospital, organized and participated in Dental and Health awareness camps at nearby villages, 3 days special camp for the YRC students of Kancheepuram District schools in the year 2014-15, Rally programmes on Eradication of Swine Flu, World Environmental Day, Save Energy and Save Power, awareness programme, World water day and Road safety were organized in the neighbourhood areas.

**Outreach Programme**

The institution conducts several programmes to sensitize students to social issues through outreach to the neighbouring community.

- INSPIRE programme sponsored by the DST is being conducted to create Scientific temper for school students from Kancheepuram & Villupuram Districts and Chennai. Motivational Talks on “Personality Development”, Inspirational talk on “Steps to future”, Nurturing programme for the orphan children to identify the hidden talents and skills, were some of the programmes conducted.
- Pro-social character of the students are developed through the activities like Support for farmers, training for Farmers on Biofertilizers and its use, conducting Model Examinations for plus two students from nearby schools in Kancheepuram & Villupuram Districts and Chennai, etc.

- Institution has received positive feedback and appreciations from the Presidents of Village Panchayats of the adopted villages, Headmasters of the Govt. schools, where the activities are carried out as these activities contribute to the good citizenship, service orientation and holistic development of students.
- The institution has installed automatic signal in the opposite to the campus on National Highways for the benefit of the common public and students. Signboards and barricades also installed in different locations of Chennai.

### MTU – KVCET Enterprise Project

The institution has signed a MoU with Pavlis Institute at Michigan Technological University, USA for student exchange programmes. Drinking water purification system was installed with natural filtration and gardening by students for the nearby villages from the year 2012.

### 3.4.2 Number of awards and recognition received for extension activities from Government /recognised bodies during the last five years

**Response: 7**

#### 3.4.2.1 Total number of awards and recognition received for extension activities from Government /recognised bodies year wise during the last five years

2016-17	2015-16	2014-15	2013-14	2012-13
3	1	2	1	0

File Description	Document
Number of awards for extension activities in last 5 years	<a href="#">View Document</a>
e-copy of the award letters	<a href="#">View Document</a>

### 3.4.3 Number of extension and outreach programs conducted in collaboration with industry, community and Non-Government Organisations through NSS/NCC/Red cross/YRC etc., during the last five years

**Response: 39**

#### 3.4.3.1 Number of extension and outreach programs conducted in collaboration with industry,community and Non-Government Organisations through NSS/NCC/Red cross/YRC etc.,year wise during the last five years

2016-17	2015-16	2014-15	2013-14	2012-13
8	7	9	7	8

File Description	Document
Number of extension and outreach programs conducted with industry,community etc for the last five years	<a href="#">View Document</a>

### 3.4.4 Average percentage of students participating in extension activities with Government Organisations, Non-Government Organisations and programs such as Swachh Bharat, Aids Awareness, Gender Issue, etc. during the last five years

**Response:** 29.69

3.4.4.1 Total number of students participating in extension activities with Government Organisations, Non-Government Organisations and programs such as Swachh Bharat, Aids Awareness, Gender Issue, etc. year wise during the last five years

2016-17	2015-16	2014-15	2013-14	2012-13
600	594	481	590	549

File Description	Document
Average percentage of students participating in extension activities with Govt. or NGO etc.	<a href="#">View Document</a>

## 3.5 Collaboration

### 3.5.1 Number of linkages for faculty exchange, student exchange, internship, field trip, on-the-job training, research, etc during the last five years

**Response:** 232

3.5.1.1 Number of linkages for faculty exchange, student exchange, internship, field trip, on-the-job training, research, etc year-wise during the last five years

2016-17	2015-16	2014-15	2013-14	2012-13
69	39	42	26	56



File Description	Document
Number of Collaborative activities for research, faculty etc.	<a href="#">View Document</a>

**3.5.2 Number of functional MoUs with institutions of national, international importance, other universities, industries, corporate houses etc. during the last five years (only functional MoUs with ongoing activities to be considered)**

**Response:** 164

3.5.2.1 Number of functional MoUs with institutions of national, international importance, other universities, industries, corporate houses etc. year wise during the last five years

2016-17	2015-16	2014-15	2013-14	2012-13
37	37	32	29	29

File Description	Document
Details of functional MoUs with institutions of national, international importance, other universities etc. during the last five years	<a href="#">View Document</a>

## Criterion 4 - Infrastructure and Learning Resources

### 4.1 Physical Facilities

**4.1.1 The institution has adequate facilities for teaching- learning. viz., classrooms, laboratories, computing equipment, etc.**

**Response:**

The institution ensures adequacy of facilities for teaching-learning by creating and enhancing the infrastructure facilities catering to the changing requirements of effective teaching and learning process. As per the requirements specified by AICTE, institution has provided all the physical facilities.

**The facilities available**

Facility	Total Numbers available
Total Classrooms	52
Smart Classrooms with ICT Tools	24
Research Laboratories	7
Workshop (Labs)	2
Central Library	1
Drawing Hall	2
Seminar Halls	13
Tutorial Spaces	27
Laboratories	56
Men's Hostel	2
Ladies Hostel	1
Auditorium	2
Boys Common Room	1
Girls Common Room	1
Animal House	1
Stationery store	1
Faculty and HODs Room	20

**Equipments for teaching, learning and research**

Teaching, Learning & Research aids (Audio/Visual)	Total Numbers available
LCD projectors	30
Laptops	20
PCs	550
Printers	16
Xerox Machines	3
<b>Modernized equipments</b>	
Fluorescent Microscope	1
Phase Contrast Microscope	1

Ultra Filtration / Microfiltration Unit	1	
Lyophilizer	1	
PCR with Hybridization Oven	02	
ELISA Reader & washer	1	
Laminar Air Flow Chamber	3	
Microtome	1	
Bioreactor	1	
HPLC	1	
Automated TLC sampler	1	
Double Beam UV Spectrophotometer	1	
Single Beam UV Spectrophotometer	1	
ZEAL TECH Work Bench	6	
CNC-Turning Machine & Milling Machine	1	
Ultra Sound Scan	1	
Audiometer	1	
Multipara monitor	1	
COD Chamber	1	
1 –Phase IGBT based PWM inverter & 3 –Phase IGBT based PWM inverter	1	
IGBT based one & three-phase PWM inverter module	1	
Total station	3	
GPS for modern survey	3	

#### List of Software used for Teaching-learning

- REVIT, PRO-E, and Auto CAD for CAD/CAM
- ARDUINO, ARM Processor & LABVIEW for Embedded System Technology
- Xilinx and Quartus-II for VLSI
- MATLAB for image processing
- Autodock for Docking of molecules
- NS2, OPTISIM, ADS & HFSS for Wireless and Optical Networking
- SPSS and AMOS for statistical analysis
- Medical imaging diagnosis using CT scan and MRI Scan
- ETAP for Power System Modeling
- MATLAB-SIMULINK for Control Systems and Power Systems
- VM VARE & EUCALYPTUS for cloud computing
- Rational Rose for case tools platform
- ECLIPSE for Java Platform
- Autodesk for Mechanical Engineering
- Staad Pro for Civil Engineering

#### Open Educational Resources

- NPTEL Online lectures from the experts of IITs/NITs
- Edusat lectures on Technical areas by the experts of Anna University, Chennai
- Membership in OPAC and DELNET for access in the institutional digital library
- Spoken tutorial programme by IIT, Bombay for all the departments.
- PSPICE (Micro Electronics), OPTISIM, [Modelica](#), [NS-2](#), 3
- MOOCS

#### 4.1.2 The institution has adequate facilities for sports, games (indoor, outdoor) gymnasium, yoga centre etc. and cultural activities

##### Response:

Institution is keenly interested and encouraging students and faculty members to involve in extracurricular and recreational activities including sports, gymnasium, yoga, etc and has provided adequate physical facilities within the college premises.

Facility	YEAR ESTD.	OF GAMES / FEATURES	TOTAL SPACE AVAILABLE IN SQ.M	USER
Outdoor games	2014	<b>Volleyball Court</b>		200 /
		70' X 120'	780.6	
		70' X 90'	585.50	
		100' X 35'	325.28	
		77' X 130'	930.29	
	2001	<b>Cricket Ground</b>		
		400' X 450'	16728.63	
	2014	<b>Football Ground</b>		
		130' X 400'	4832	
	2001	<b>Hockey Ground</b>		
	100' X 200'	1858		
2014	<b>Basketball Ground</b>			
		1.	812.26	
	2.	756.13		
Indoor games	2011	Carrom, Table Tennis, Chess	343.86	50 / D
Gymnasium	2007	12 station Multi Gym – 1, Bench Press -2, Twister – 1, Handling Stepper -1, Cycle -1, Tread Mill -3, etc	343.86	50 / D
Saroja Regupathy Auditorium for cultural activities	2014	Seminar Hall, Fully Air Conditioned -1300 seat capacity, DTS sound system with 3 LCD, projectors, Green room and 320 KVA Generator.	3600	More for a functio
Auditorium (Yoga centre)	2001	Multipurpose hall	1500	More yoga p week
Seminar Hall (Edu-sat Hall)	2010	200 seat capacity, LCD projector, PA system system	860	More for a functio

Quadrangle	2001	Open Air Theatre (OAT)	960	seminar More for a functi studen
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#### 4.1.3 Percentage of classrooms and seminar halls with ICT - enabled facilities such as smart class, LMS, etc

**Response:** 36.92

##### 4.1.3.1 Number of classrooms and seminar halls with ICT facilities

Response: 24

#### File Description

#### Document

Number of classrooms and seminar halls with ICT enabled facilities

[View Document](#)

#### 4.1.4 Average percentage of budget allocation, excluding salary for infrastructure augmentation during the last five years.

**Response:** 3.34

##### 4.1.4.1 Budget allocation for infrastructure augmentation, excluding salary year wise during the last five years (INR in Lakhs)

2016-17	2015-16	2014-15	2013-14	2012-13
25	25	30	30	30

#### File Description

#### Document

Details of budget allocation, excluding salary during the last five years

[View Document](#)

## 4.2 Library as a Learning Resource

### 4.2.1 Library is automated using Integrated Library Management System (ILMS)

**Response:**

The library is housed in a spacious area of 604 sq.m, fully computerized and air-conditioned with

Reference Section, Magazine Section and Stack Area. Presently there are about 41,000 books and reference volumes stacked for the benefit of staff and students. There is a well-established media resource centre. As many as 234 professional journals are subscribed every year.

Constant addition of titles and volumes in all the fields of Engineering, Management, Basic Sciences and Humanities is the regular facet of our library. Every effort has been made to obtain all titles recommended by the students and faculty members.

Newspapers, weekly and fortnightly magazines of repute are subscribed to enable the students to acquire knowledge to keep shoulder to shoulder of day-to-day trends. To facilitate the assessment of book catalogs, the library books are all digitally coded with bars and computerized through automated OPAC system.

### Library Resources

**Books:** The resource center has 40845 volumes of books consisting of 10402 titles. The collection also includes handbooks and encyclopedias.

**Periodicals:** The resource center subscribes 117 National and 1028 International periodicals.

**Back volumes:** There are about 1000 back volumes.

**Project reports :** 1000 nos.

Faculties	Volumes	Titles
Engineering and Technology	29,750	7,402
Science & Humanities	11,095	3,000

### Internet Service

13 terminals are available for the users to browse the internet through Airtel Broadband connectivity.

### Electronic Library

The collection consists of CD-ROMs, Floppies and AV materials including a collection of video courses. NPTEL video courses produced by the Joint ventures by IIT's & Anna University are made available to the users in the concerned subjects.

### Reference Service

Rare volumes and important books are separately kept in the Reference section.

Staff members are available in the reference section of the reading room to suggest sources of Information and to assist in locating the required materials.

### GENERAL

- All members should display their identity cards prominently and it should be produced to the security if required

- Personal books, files and other articles (except a small notebook or loose sheets of papers) are not allowed inside the library. Members have to deposit their personal belongings at the Property Counter near the entrance
- Silence should be observed strictly inside the library
- Using of mobile Phones inside the library is prohibited
- A member shall be responsible for any damage done by him/her to the books or other college properties. He/she will be required to replace the book or other damaged property
- Misbehavior in the library will lead to cancellation of membership and also lead to serious disciplinary action
- Any marking or writing inside the books by the members is strictly prohibited. If any damage/markings is found, the member should replace the book
- Notwithstanding anything contained in these rules, the decision of the authorities of the college in all matters shall be final and binding

#### DATA REQUIREMENT

- Name of the ILMS software: **AUTOLIB**-Library Automation Management Software-Multi user LAN-MS-SQL
- Nature of automation (fully or partially): **Fully**
- Version: **MS- SQL Version 5.1 (14 Modules)**
- Year of automation: 2008

#### 4.2.2 Collection of rare books, manuscripts, special reports or any other knowledge resources for library enrichment

##### Response:

The library is the heart of an academic institution. Our college library is establishing an excellent collection of books, journals and non-book materials in science, engineering, technology, humanities and management. It is a learning centre for all students and staff members to make the best use of the library that has been carefully built up since the inception of the college.

The institutional library has the following rare books collection for the purpose of reference for students, faculty members and research scholars.

File Description	Document
Any additional information	<a href="#">View Document</a>

#### 4.2.3 Does the institution have the following:

- 1.e-journals
- 2.e-ShodhSindhu
- 3.Shodhganga Membership

**4.e-books****5.Databases****A. Any 4 of the above****B. Any 3 of the above****C. Any 2 of the above****D. Any 1 of the above****Response:** D. Any 1 of the above

<b>File Description</b>	<b>Document</b>
Details of subscriptions like e-journals,e-ShodhSindhu,Shodhganga Membership etc.	<a href="#">View Document</a>

**4.2.4 Average annual expenditure for purchase of books and journals during the last five years (INR in Lakhs)****Response:** 8.59

4.2.4.1 Annual expenditure for purchase of books and journals year wise during the last five years (INR in Lakhs)

2016-17	2015-16	2014-15	2013-14	2012-13
3.03	1.78	3.31	18.38	16.44

<b>File Description</b>	<b>Document</b>
Details of annual expenditure for purchase of books and journals during the last five years	<a href="#">View Document</a>

**4.2.5 Availability of remote access to e-resources of the library****Response:** No

<b>File Description</b>	<b>Document</b>
Details of remote access to e-resources of the library	<a href="#">View Document</a>

**4.2.6 Percentage per day usage of library by teachers and students**



**Response:** 21.2

4.2.6.1 Average number of teachers and students using library per day over last one year

Response: 398

File Description	Document
Details of library usage by teachers and students	<a href="#">View Document</a>

### 4.3 IT Infrastructure

#### 4.3.1 Institution frequently updates its IT facilities including Wi-Fi

**Response:**

KVCET network communications includes a Fiber optic backbone, offering 20 Mbps Internet connectivity to the commodity Internet and provides Intranet within the HI-TECH lab which hosts 10 laboratories. The Department has wireless Internet connectivity via a campus-wide 802.11b network to the Laptops.

The network is equipped with Routers, switches and Firewalls. Since all the machines in the computer laboratory and its annexure are connected in a switched Fiber Optic Computer Network, one can access any resource from any node in the campus.

A variety of latest software is also made available to the students. The campus computer network covering all buildings spread over 25 acres has been conceived, studied, planned, designed, optimized, executed and maintained by the Department of Computer Science and Engineering.

#### HOSTEL

Location of the hostel is within the college premises at a walkable distance from the main building. The hostel is equipped with Wi-Fi facility and there are internet centers within the campus to ease the necessities of our students.

<b>DEVICE NAME</b>	BROVIS-AC 100
<b>DATE OF UPDATION</b>	07.11.2008 and 14.09.2009
<b>NATURE OF UPDATION</b>	Speed of computation and quick access

#### 4.3.2 Student - Computer ratio

**Response:** 2.97

File Description	Document
Student - Computer ratio	<a href="#">View Document</a>

**4.3.3 Available bandwidth of internet connection in the Institution (Lease line)**

&lt;5 MBPS

5-20 MBPS

20-35 MBPS

35-50 MBPS

**Response:** 5-20 MBPS

File Description	Document
Details of available bandwidth of internet connection in the Institution	<a href="#">View Document</a>

**4.3.4 Facilities for e-content development such as Media Centre, Recording facility, Lecture Capturing System (LCS)****Response:** No

File Description	Document
Facilities for e-content development such as Media Centre, Recording facility,LCS	<a href="#">View Document</a>

**4.4 Maintenance of Campus Infrastructure****4.4.1 Average Expenditure incurred on maintenance of physical facilities and academic support facilities excluding salary component, as a percentage during the last five years****Response:** 5.93

4.4.1.1 Expenditure incurred on maintenance of physical facilities and academic support facilities excluding salary component year wise during the last five years (INR in Lakhs)

2016-17	2015-16	2014-15	2013-14	2012-13
28.94	46.05	55.63	47.61	70.23

File Description	Document
Details about assigned budget and expenditure on physical facilities and academic facilities	<a href="#">View Document</a>

#### **4.4.2 There are established systems and procedures for maintaining and utilizing physical, academic and support facilities - laboratory, library, sports complex, computers, classrooms etc.**

##### **Response:**

Institution follows Japanese '5S' system for maintenance and upkeep of the infrastructure facilities with the commitment of students and faculty members voluntarily. The institution has dedicated policies of maintaining and utilizing the infrastructure for curricular, co-curricular and extra-curricular activities.

##### **Policy Details**

##### **Maintenance Policy - Physical and Academic support facilities**

- The institute has appointed a Campus Maintenance Engineer, to take care of the maintenance of the infrastructure facilities of the institute, buildings for academic, workshop, hostels, quarters, playgrounds, gymnasium, RO plant and water coolers, Rain water harvesting, auditorium and seminar halls; Electrician and Technicians, to take care of campus lighting, lift service, air conditioners, Genset, Solar Plant; Gardener, to take care of trees, gardens and plant saplings; Plumber for plumbing works and housekeeping staff for periodical cleaning of rest rooms, cleaning of classrooms, halls, laboratories and verandahs.
- Library is maintained by the team of faculty on stock verification every year regarding purchase and utilization; racks are maintained by the library assistant and cleaning is maintained by the supporting staff.
- Carpentry and welding works are taken care on contract basis for repair of furniture in the Classrooms, Laboratories and Office every semester of the academic year.
- The Computers, Printers, UPS and LCD Projectors are maintained by the campus service personnel and on AMC by external agencies during the academic year. Internet services are installed in the campus by Airtel, service provider and are maintained by technicians. System Administrator maintains the Server room with appropriate softwares. Website is maintained by the external agency coordinated with faculty in-charge.
- The laboratory equipments are maintained by the external service personnel, every semester on requirement.
- The transport vehicles are well maintained by the Mechanic appointed in the workshop and fitness certificate is obtained from RTO for ensuring safety.
- Campus security is maintained by an appointed Security Officer along with security personnel to ensure the safety of campus and CCTV cameras are installed in the building for surveillance. Fire extinguishers are installed for the safety purpose.

##### **Utilizing Policy**

- The academic works are carried out for the students by utilizing the campus buildings: classrooms, workshop, laboratories, library, seminar halls, tutorial rooms, drawing halls etc.
- Computers with internet facilities are being utilized by the academic staff, administrative staff and students.
- Student stakeholders utilize the facilities of playgrounds for extra-curricular activities, NSS, YRC and Outreach activities as co-curricular activities.
- As a Social Responsibility, the institution support the Governemtn departments and organization for their endeavours without affecting regular academic sessions.

- The institution extends its infrastructure during vacation to the government departments such as Postal department, Education department, etc., for conducting training programme for their staff.
- The institution extends cooperation to TNPSC and other Government bodies to conduct their public examination during holidays

NAAC

## Criterion 5 - Student Support and Progression

### 5.1 Student Support

#### 5.1.1 Average percentage of students benefited by scholarships and freeships provided by the Government during the last five years

**Response:** 73.49

5.1.1.1 Number of students benefited by scholarships and freeships provided by the Government year wise during the last five years

2016-17	2015-16	2014-15	2013-14	2012-13
1232	1444	1560	1461	1311

#### File Description

#### Document

Average percentage of students benefited by scholarships and freeships provided by the Government during the last five years

[View Document](#)

Upload self attested letter with the list of students sanctioned scholarships

[View Document](#)

#### 5.1.2 Average percentage of students benefited by scholarships, freeships, etc. provided by the institution besides government schemes during the last five years

**Response:** 1.23

5.1.2.1 Total number of students benefited by scholarships, freeships, etc provided by the institution besides government schemes year wise during the last five years

2016-17	2015-16	2014-15	2013-14	2012-13
28	28	26	21	12

#### File Description

#### Document

Number of students benefited by scholarships and freeships besides government schemes in last 5 years

[View Document](#)

#### 5.1.3 Number of capability enhancement and development schemes –

1. For competitive examinations
2. Career counselling
3. Soft skill development
4. Remedial coaching
5. Language lab
6. Bridge courses
7. Yoga and meditation
8. Personal Counselling

A. 7 or more of the above

B. Any 6 of the above

C. Any 5 of the above

D. Any 4 of the above

**Response:** A. 7 or more of the above

File Description	Document
Details of capability enhancement and development schemes	<a href="#">View Document</a>

#### 5.1.4 Average percentage of student benefited by guidance for competitive examinations and career counselling offered by the institution during the last five years

**Response:** 55.32

5.1.4.1 Number of students benefited by guidance for competitive examinations and career counselling offered by the institution year wise during the last five years

2016-17	2015-16	2014-15	2013-14	2012-13
1138	1095	984	1079	938

File Description	Document
Number of students benefited by guidance for competitive examinations and career counselling during the last five years	<a href="#">View Document</a>

#### 5.1.5 Average percentage of students benefited by Vocational Education and Training (VET) during the last five years

**Response:** 4.22

5.1.5.1 Number of students attending VET year wise during the last five years

2016-17	2015-16	2014-15	2013-14	2012-13
96	88	72	70	70

**File Description****Document**

Details of the students benefitted by VET

[View Document](#)**5.1.6 The institution has a transparent mechanism for timely redressal of student grievances including sexual harassment and ragging cases****Response:** Yes**File Description****Document**

Minutes of the meetings of student redressal committee, prevention of sexual harassment committee and Anti Ragging committee

[View Document](#)

Details of student grievances including sexual harassment and ragging cases

[View Document](#)

## 5.2 Student Progression

**5.2.1 Average percentage of placement of outgoing students during the last five years****Response:** 65.33

5.2.1.1 Number of outgoing students placed year wise during the last five years

2016-17	2015-16	2014-15	2013-14	2012-13
396	426	355	325	388

**File Description****Document**

Details of student placement during the last five years

[View Document](#)

Self attested list of students placed

[View Document](#)

Any additional information

[View Document](#)

**5.2.2 Percentage of student progression to higher education (previous graduating batch)****Response:** 3.79

## 5.2.2.1 Number of outgoing students progressing to higher education

Response: 20

**File Description****Document**

Details of student progression to higher education

[View Document](#)

Upload supporting data for student/alumni

[View Document](#)**5.2.3 Average percentage of students qualifying in state/national/ international level examinations during the last five years (eg: NET/SLET/GATE/ GMAT/CAT, GRE/ TOFEL/ Civil Services/State government examinations)****Response:** 8.13

## 5.2.3.1 Number of students qualifying in state/ national/ international level examinations (eg: NET/SLET/GATE/GMAT/CAT, GRE/TOFEL/Civil Services/State government examinations) year wise during the last five years

2016-17	2015-16	2014-15	2013-14	2012-13
3	2	6	6	5

## 5.2.3.2 Number of students who have appeared for the exams year wise during the last five years

2016-17	2015-16	2014-15	2013-14	2012-13
58	59	61	45	56

**File Description****Document**

Number of students qualifying in state/ national/ international level examinations during the last five years

[View Document](#)**5.3 Student Participation and Activities****5.3.1 Number of awards/medals for outstanding performance in sports/cultural activities at national**



**/ international level (award for a team event should be counted as one) during the last five years.**

**Response:** 12

5.3.1.1 Number of awards/medals for outstanding performance in sports/cultural activities at national/international level (award for a team event should be counted as one) year wise during the last five years

2016-17	2015-16	2014-15	2013-14	2012-13
5	3	2	1	1

File Description	Document
Number of awards/medals for outstanding performance in sports/cultural activities at national/international level during the last five years	<a href="#">View Document</a>
e-copies of award letters and certificates	<a href="#">View Document</a>

### **5.3.2 Presence of an active Student Council & representation of students on academic & administrative bodies/committees of the institution**

**Response:**

The institution has constituted student council and various committees with student volunteer as active members.

#### **Student Council**

The Student Council of our Institution is constituted in the year 2015-16. It provides students with opportunities to engage in cultural, educational, social and recreational activities, which are an integral part of the living-learning community of KVCET. Students develop their talents and abilities in leadership and teamwork through their participation.

The Student Council comprises a balanced blend of male and female students in order to fully represent the interests of the student body. All Student Council positions are open to both male and female students in order to accurately reflect the biblical roles and responsibilities of men and women in all of our structures and positions, and to prepare students to fill leadership roles in all the activities of the institution.

- President - Final year
- Vice President - Third year - Male
- Vice President - Third year - Female
- Secretary - Final year
- Assistant Secretary - Third year - Male
- Assistant Secretary - Third year - Female

- Executive Committee members - 8 Nos. (Comprising 2nd year UG and PG courses)
- Faculty Advisor - Senior Faculty member

### Major Activities through Student Council

Students Council is assigned with various activities to be carried out such as,

- Freshers Day
- Cultural Programme
- Engineers Day
- Annual day
- Sports day
- Graduation day
- Teachers Day
- Traditional Functions
- National Days of Importance
- Student Magazine and Newsletter

### Role of students in Academic activities

Students are the members to represent their suggestions in Class committee meetings which are conducted by the chairperson of the class committee in all the departments thrice in a semester to review the subject coverage and shortfalls.

Based on the feedback from the students, the Chairperson gives necessary instructions for improving the teaching methodologies of the faculty members. This entire process is fully reported to IQAC.

### Role of students in Administrative activities

Students are the members of various administrative committees includes Outreach committee and Event management committee. They are assigned to carry out volunteer activities to improve their leadership and administrative skills in various cultural, sports and social welfare activities. It will improve their communal and socio responsibilities

### 5.3.3 Average number of sports and cultural activities/ competitions organised at the institution level per year

**Response:** 34

5.3.3.1 Number of sports and cultural activities / competitions organised at the institution level year wise during the last five years

2016-17	2015-16	2014-15	2013-14	2012-13
34	34	34	34	34

File Description	Document
Number of sports and cultural activities / competitions organised per year	<a href="#">View Document</a>

## 5.4 Alumni Engagement

### 5.4.1 The Alumni Association/Chapters (registered and functional) contributes significantly to the development of the institution through financial and non financial means during the last five years

#### Response:

Yes. The registered Alumni Association (**Reg. No. 101/2017**) of the institution has made significant contributions in the last five years for the holistic development.

#### Alumni Association (Reg. No. 101/2017)

- Institution has a registered the Alumni Association (Reg. No. 101/2017) with office bearers for the smooth functioning.
- Every year Alumni meet is conducted in the college premises and the office bearers of the association are elected.
- Guest lectures and workshops are conducted with Alumni as resource persons.
- In-plant training & Placement assistance are provided by our alumini.
- Feedback from the alumni was considered for new courses introduction and other curricular enrichment activities.

File Description	Document
Any additional information	<a href="#">View Document</a>

### 5.4.2 Alumni contribution during the last five years

<1 Lakh

1 Lakh - 3 Lakhs

3 Lakhs - 4 Lakhs

4 Lakhs - 5 Lakhs

**Response:** 1 Lakh - 3 Lakhs

File Description	Document
Alumni association audited statements	<a href="#">View Document</a>

**5.4.3 Number of Alumni Association / Chapters meetings held during the last five years****Response:** 43

## 5.4.3.1 Number of Alumni Association /Chapters meetings held year wise during the last five years

2016-17	2015-16	2014-15	2013-14	2012-13
11	8	8	8	8

File Description	Document
Number of Alumni Association / Chapters meetings conducted during the last five years.	<a href="#">View Document</a>

## Criterion 6 - Governance, Leadership and Management

### 6.1 Institutional Vision and Leadership

#### 6.1.1 The governance of the institution is reflective of an effective leadership in tune with the vision and mission of the institution

##### Response:

Yes.

The Vision and Mission of the institution is a reflective of effective leadership of our governing council.

##### Vision

- Imparting innovative higher education with greater accentuation on high value systems shaping personnel for nation-building.

##### Mission

- To impart quality technical education by providing state-of-the art infrastructure with dedicated facility.
- To provide contemporary technical education for facing the needs and challenges of industries and research establishment at global level.
- To effect socio-economic transformation of society by inculcating human values and social responsibilities.

##### Distinctive characteristics of the institution

The dedicated faculty imparts quality technical education with state – of - the art infrastructure for Engineering / Technology students and for needs and challenges in industries and research establishments. The Human values and social responsibilities are inculcated among the students for socio-economic transformation of the society and engage in life long learning for technological change as an alumni of this institution and proved citizen of this great nation.

##### Governance

- The Governing Council, establishes the internal organizational structure and assigns clear responsibilities to all individuals for ensuring and enhancing the quality.
- The Principal and faculty members of the institution prepare strategic and operational plans for the development and implementation of quality policy through reviews.
- IQAC is entrusted with responsibility of setting performance indicators and benchmarks for all performances concerned.
- Periodical meetings are conducted, reviews are carried out by the members of the Governing Council, IQAC & other councils and the strategic/action plans are designed for attainment of stated mission.

##### Perspective plans

The institution has perspective plans for enhancement of infrastructure facility with constant up gradation of all areas concerned, effective teaching learning process, promotion of research and consultancy activities and meeting the employer needs. The following major aspects are considered in planning for development:

- Enhancement of the infrastructure facilities with constant up-gradation for continuous growth in a systematic way.
- Providing quality technical education for students to face the current needs and challenges of industries.
- Innovative and modernized methods are followed for effective teaching - learning process.
- Submission of research proposals for grants from Central / State Govt. and other funding agencies.
- Interaction with potential industries for sponsored research and consultancy activities leading to IPR and patents.

#### **Faculty members involved in Decision making process**

- Faculty members are given due representation in all the the decision making bodies such as Governing Council, Academic Council, IQAC and all other committees.
- Faculty members of Academic Audit Committee are deputed with responsibility to evaluate the teaching learning process of the institution and are given rights to give suggestions on short falls, if any.
- Faculty members and HoDs are given rights to ensure the quality iniativities of the institution in all aspects.
- Senior female faculty members are empowered to decide the activites related to Women Empowerment Cell of the institution.

#### **6.1.2 The institution practices decentralization and participative management**

##### **Response:**

##### **Decentralization**

The institution decentralizes and delegates its powers to the Heads of the Departments in all the academic endeavours and they are monitored by the Principal, the academic head of the institution.

- The suggestions of the Governing Council on academic and administrative activities to be implemented are carried forward by Principal and Deans.
- Heads of the Departments gets direction from the Principal and Deans related to departmental activities.
- Heads of the Departments monitor day to day activities, allocate subjects to faculty members, approves the lesson plan and course notes prepared by the faculty, analyze the internal assessments, ensures discipline, conduct class committee meetings, takes up mentoring, conduct enrichment programmes / courses and interact with stakeholders.
- HoDs are responsible for Budget preparation and purchase of equipments and accessories for smooth and efficient conduct of departmental activities.
- HoDs forward stakeholders feedback to Principal for necessary actions.

## Participative management

The college promotes a culture of participative management and encourages the involvement of students, faculty members and other stakeholders with specific roles by delegating authority at various levels and provides operational and financial autonomy to the departments and units of the institution to work independently with the active participation of faculty, staff and students.

- **Heads of the Department** - Decides the activities of the department, distribute the workload, budget preparation and submission to Principal, maintenance of laboratory equipment, organizing guest lectures, seminars, workshops, MoU, and value added courses, internship/industrial visits.
- **Faculty members** are involved in effective teaching learning process and they give their inputs (opinions and feedback) during various meetings. The Principal consolidates the suggestions given by the faculty members which are duly considered for implementation.
- **Students** provide the feedback in monthly class committee meetings and their opinions are given due weightage in decision making. At the end of each semester feedback is collected from all the students on curriculum aspects and the inputs are included for quality improvement after review.
- **Librarian** – Empowered to identify the list of books to be purchased in consultation with HoDs and processing of purchase of books, periodicals, journals, etc.
- **Head – Training and Placement** – design of various training modules and conduct of soft skills training for students and arranging recruitment drives and in-plant training for students based on the recommendation of the faculty members and HoD.
- **Coordinator, EDC** – responsible to conduct EDC activities and to celebrate Entrepreneurship Day in consultation with faculty and concerned HoD.
- **Director, Physical Education** – Responsible for conduct of all inter departmental and zonal sports and games.
- **Administrative Officer** – monitoring of administrative activities of the college
- **Admission Cell Coordinator** – Responsible for all admission processes
- **Finance Officer** – Responsible to maintain day to day financial transactions and audit.
- **Transport In charge** – maintenance and monitoring of transport vehicles
- **Security Officer** – Campus maintenance & check at nodal points
- **Hostel Deputy Wardens** – Custodians of students and maintenance of discipline in the hostel

Feedbacks from **stakeholders**, alumni and industrial experts are consolidated by respective faculty in charge and carry forward for appropriate actions. Senior female faculty members are entrusted responsibilities to decide the activities related to women empowerment cell of the institution.

File Description	Document
Any additional information	<a href="#">View Document</a>

## 6.2 Strategy Development and Deployment

### 6.2.1 Perspective/Strategic plan and Deployment documents are available in the institution

**Response:**

Yes.

**The Institution has well defined perspective plans and the deployment documents are available.**

The institution has defined strategic plans for overall enhancement with constant upgradation of all areas including teaching-learning, Research and Development and Consultancy services.

The institution has established a separate R & D Cell with all the senior professors and faculty members with Ph.D. are as members. All the members are encouraged to submit research proposals for grants from various Govt. funding agencies.

As a evident of success of this initiative, one of our faculty member Mrs.A.Sheeladevi, from Department of Biotechnology has received a sum of Rs.11,00,000 from DST – SERB for “ Anti Cancer Drug Development from Mangroves” in the year 2016-17.

**Consultancy services**

File Description	Document
Any additional information	<a href="#">View Document</a>

**6.2.2 Organizational structure of the institution including governing body, administrative setup, and functions of various bodies, service rules, procedures, recruitment, promotional policies as well as grievance redressal mechanism**

**Response:**

- All policy matters are discussed in Governing Council for decision making process.
- Research project proposals for grants from funding agencies, accreditation and coordination of IQAC are monitored by the Dean (Research)
- Student discipline,transport and maintenace are monitored by the Dean (Student Affairs).
- Academic and Administrative activities of the institution are monitored by the Principal
- Based on the budget proposed by the HODs and on approval, the equipment for laboratories, books and journals for the library are purchased and maintenance works will be carried out, and responsibilities in consultation with Principal.
- Institution has well framed service rules procedures, recruitment and promotional policy and grievance redressal mechanism

File Description	Document
Any additional information	<a href="#">View Document</a>



**6.2.3 Implementation of e-governance in areas of operation: 1.Planning and Development 2. Administration 3. Finance and Accounts 4. Student Admission and Support 5.Examination**

**A. All 5 of the above**

**B. Any 4 of the above**

**C. Any 3 of the above**

**D. Any 2 of the above**

**Response:** E. Any 1 of the above

File Description	Document
Details of implementation of e-governance in areas of operation Planning and Development,Administration etc	<a href="#">View Document</a>
ERP Document	<a href="#">View Document</a>

**6.2.4 Effectiveness of various bodies/cells/committees is evident through minutes of meetings and implementation of their resolutions**

**Response:**

It is ensured that by and large, all the cadres of the staff members are members of various committees for the smooth functioning of the institution.

**List of committees**

- Workshop committee
- Alumni committee
- Guest lecture committee
- GATE committee
- R & D committee
- Driving club
- MoU and Seminar committee
- Ambience committee
- Academic audit committee
- Assignment committee
- Test scrutinizing committee
- Outreach committee
- Coaching class committee
- Paper presentation committee
- Transport committee
- Maths club
- Language club

- Students Council
- Event management committee
- Library committee
- Arts committee
- Peer Group committee
- Value Added Course committee
- Industrial visit Committee
- PRO committee
- Placement committee
- Concurrent audit committee
- Discipline committee
- Accreditation committee
- Grievance Redressal Cell
- Class committees
- Anti-ragging committee
- Sports committee
- Hostel committee
- ED Cell
- Exam cell
- Women Empowerment Cell

The class committee meeting is conducted every month in the respective departments with a Chairperson from other department, faculty members and student representatives to discuss on assessments and evaluation, remedial classes needed, classroom amenities and syllabus coverage and the minutes of the meeting are forwarded for analysis for further improvement. All the above committees met as and when need arises and functioning according to their specific objectives.

#### **Feedback is collected from the students at the end of each semester.**

- Feedback is collected through class committee meetings held periodically on assessments and evaluation, remedial classes needed; classroom amenities and syllabus coverage and the minutes of the meeting are forwarded for analysis.
- Student's feedback on co-curricular activities such as guest lectures, conferences, seminars, workshops, industrial visits and value-added programmes are used for organizing and planning various other programmes.
- Feedback is collected on extension activities, outreach and cultural programmes.
- Students' response is collected and analyzed and forwarded to IQAC.

#### **Outcome and response of the institution**

- The Institution gives due importance to every student's opinion and feedback on all aspects provided to them.
- Students feedback on teaching/learning methods will be considered and conveyed to the concerned faculty by the Principal for improvement/modification if any.
- Student's feedbacks on co-curricular activities are analyzed and the suggestions are implemented in successive events.
- Suggestions given in feedback collected related to extra-curricular activities are forwarded to the respective programme coordinators for necessary action

File Description	Document
Any additional information	<a href="#">View Document</a>

## 6.3 Faculty Empowerment Strategies

### 6.3.1 The institution has effective welfare measures for teaching and non-teaching staff

#### Response:

Yes.

Institution has number of welfare schemes for both teaching and Non-teaching staff members which are effectively implemented as given below;

- **Employee's Provident Fund (EPF)**

The institution has system of EPF and contributes equally to both the teaching and non-teaching staff members upon their confirmation. They are permitted to avail loan from their EPF account as and when they need.

- **Marriage Leave**

The institution provides paid marriage leave for all the teaching and non-teaching staff members.

- **Free transportation for faculty**

Institution is providing free transportation for all the teaching and Non-teaching staff members from different boarding points to the institution daily.

- **Paid maternity leave**

Institution is providing paid maternity leave for Women staff as per norms.

- **Sponsorship for co-curricular activities**

Institution is sponsoring teaching and non-teaching staff for their co-curricular enrichment activities like participation in conferences, FDPs, workshops, skill development programmes, etc.

- **Sponsorship for higher education**

Institution is also sponsoring teaching and non-teaching staff members for their higher education.

- **Free lunch for Non-Teaching staff**

Institution has a policy of providing free lunch to all the non-teaching and administrative staff regularly.

Institution provides tea for all the staff during morning break.

- **Family quarters**

Institution is providing family quarters for teaching and non-teaching staff as and when they require within the college premises.

- **Admission facility for wards**

Institution is providing admission for the wards of teaching and non-teaching staff members with fee concession.

- **Group Insurance**

Institution is sponsoring for free medical Insurance for all the staff and their family

- **Free Bachelor accommodation**

Apart from family quarters, Institution is also providing Bachelor accommodation for teaching and non-teaching staff members in the college hostels.

### 6.3.2 Average percentage of teachers provided with financial support to attend conferences/workshops and towards membership fee of professional bodies during the last five years

**Response:** 3.43

6.3.2.1 Number of teachers provided with financial support to attend conferences / workshops and towards membership fee of professional bodies year wise during the last five years

2016-17	2015-16	2014-15	2013-14	2012-13
7	3	3	9	13

File Description	Document
Details of teachers provided with financial support to attend conferences,workshops etc. during the last five years	<a href="#">View Document</a>

### 6.3.3 Average number of professional development /administrative training programs organized by the institution for teaching and non teaching staff during the last five years

**Response:** 2.6

6.3.3.1 Total number of professional development / administrative training programs organized by the

Institution for teaching and non teaching staff year wise during the last five years

2016-17	2015-16	2014-15	2013-14	2012-13
2	3	3	3	2

File Description	Document
Details of professional development / administrative training programs organized by the Institution for teaching and non teaching staff	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

#### 6.3.4 Average percentage of teachers attending professional development programmes viz., Orientation Programme, Refresher Course, Short Term Course, Faculty Development Programme during the last five years

**Response:** 7.24

6.3.4.1 Total number of teachers attending professional development programs, viz., Orientation Program, Refresher Course, Short Term Course, Faculty Development Programs year wise during the last five years

2016-17	2015-16	2014-15	2013-14	2012-13
15	12	8	26	14

File Description	Document
Details of teachers attending professional development programs during the last five years	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

#### 6.3.5 Institution has Performance Appraisal System for teaching and non-teaching staff

**Response:**

Yes.

The institution maintains a system of performance appraisal for both Teaching and Non-Teaching staff every year and upon evaluation, they will be given annual increments and promotions.

Performance appraisal forms will be issued to the faculty members and Non-Teaching staff every year for

providing the details regarding,

- Student pass percentage of the subjects taught.
- Remedial classes conducted and the improvement in results
- Papers presented and published in the National and International conferences and Journals.
- Targets achieved on MoUs, Placement, Industrial visits, Guest lecture, Conference organized with funds, publication of research papers on national / international conferences.
- Workshops organized
- Effective Mentoring of students
- Books authored
- Research contribution
- Papers Published
- Grants Received
- Ph.D Guided
- Contributions to the institute in terms of project proposals submitted to the funding agencies and sanctions obtained.

Faculty members will provide all the details pertaining to their performance and ensure all the information is appropriate and submit for evaluation. For non teaching staff, report on their contribution to department, attending trainings, special courses, etc., will be considered.

The Authorities will assess the performance appraisal forms submitted by the faculty members and non teaching staff and evaluate for their annual increments and subsequent promotions.

File Description	Document
Any additional information	<a href="#">View Document</a>

## 6.4 Financial Management and Resource Mobilization

### 6.4.1 Institution conducts internal and external financial audits regularly

#### Response:

Yes. The institution has a structured mechanism of internal and external audit for the financial transactions every year.

- The accounts and daily transactions done internally carried out by the Accounts department on daily basis.
- The annual audit is carried out by the statutory auditor.
- The income tax returns, professional taxes, institutional taxes are being remitted by the Finance Officer.
- Internal audit is done once in a year.
- No major audit objection is reported.

**6.4.2 Funds / Grants received from non-government bodies, individuals, Philanthropists during the last five years (not covered in Criterion III)****Response:** 0

6.4.2.1 Total Grants received from non-government bodies, individuals, philanthropists year wise during the last five years (INR in Lakhs)

2016-17	2015-16	2014-15	2013-14	2012-13
0	0	0	0	0

**File Description****Document**

Details of Funds / Grants received from non-government bodies during the last five years

[View Document](#)**6.4.3 Institutional strategies for mobilisation of funds and the optimal utilisation of resources****Response:**

Yes.

The institution has a structured plan for mobilization of available funds for the optimal and effective utilization of resources.

**The available financial resources are,**

- Tuition fees
- Research grants
- Sanctioned funds for enrichment programmes

**RESOURCE MOBILIZATION POLICY AND PROCEDURE****Annual tuition fee collected**

The resources are effectively used for:

- Salaries disbursement
- Allotment of budget for departments and purchase of equipments
- Tax payment
- Loan payment
- Payment of maintenance and purchase bills
- Expenditure for sports and games
- Expenditure for extension and Outreach activities
- Expenditure for all cultural and societal events.

### **Research grants mobilization**

- Equipments and software necessary are purchased as per approval of the funding agency
- Stipend for the project staff disbursement
- Execution of the project and on completion, UC will be submitted.

### **Institutional mechanism to monitor effective and efficient use**

- The accounts department headed by the Finance Officer and Assistants are maintaining the accounts of the institution. They are responsible to prepare monthly statements of income and expenditure and bank reconciliations, fees dues from students and bills payable statements.
- Every academic year the budget proposals are prepared by the Heads of all the departments regarding purchase of equipments and consumables for the laboratory, books and journals and are submitted for approval.

## **6.5 Internal Quality Assurance System**

### **6.5.1 Internal Quality Assurance Cell (IQAC) has contributed significantly for institutionalizing the quality assurance strategies and processes**

#### **Response:**

The IQAC was established on 1st June, 2017. The Annual Quality Assurance Report (AQAR) report will be formulated every year to keep the implementation of quality policy. The AQAR of the institute ensures to follow the framed and structured quality policies.

The following are the institutional policies adopted and the designed system are applied in order to institutionalize the quality assurance processes:-

#### **Institutional policies**

- Institution predominantly considers learner friendly and congenial atmosphere for teachers in achieving the goal through organized methods.
- Constant up-gradation for sustainable quality education to produce competent engineers and technologists.
- The Institution envisages state-of-the-art facilities in Engineering & Technology through feedback from stakeholders.

The policies mentioned above are evaluated by the Planning & Monitoring Board, IQAC & Academic Council and submit their recommendations to the Governing Council for perusal and approval.

#### **IQAC Contribution**

- The Internal Quality Assurance Cell of the College consists of Principal, Deans, Academic and Industrial experts, Heads of Departments, Faculty members, Student & Alumni representatives, Community representatives, Librarian and Placement Officer, monitoring all the academic



activities for the quality assurance and implementation.

- Through IQAC the college strives hard towards analyzing and revising, simultaneously uplifting the followed techniques, the various procedures and effective processes in almost all the aspects such as administrative and academic processes of the college. This is achieved by rendering endless efforts through which sustenance and better quality is assured.
- In order to assimilate good quality across every stakeholder, the IQAC organizes several programmes on general awareness, faculty induction, career development, effective communication skills, personality enhancement, faculty knowledge enrichment, social responsibility, professionalism etc.,
- The institutional quality policies are improved by considering and taking appropriate actions based on the following

Feedback from students

Mentor inputs on students progress

Internal Academic Audit

Feedback from Alumni

Feedback from Industrial Experts

#### **6.5.2 The institution reviews its teaching learning process, structures & methodologies of operations and learning outcomes at periodic intervals through IQAC set up as per norms**

**Response:**

##### **Structure and methodologies of operations**

- During the commencement of every semester of the academic year the subjects are allocated to the faculty members based on their expertise and lecture notes are prepared.
- Course file consists of syllabi, Lesson Plan, Notes of Lesson, previous year University Question papers, Assignment and question bank and are submitted to HODs and are evaluated by the IQAC committee.
- Lab manuals incorporating Standard Operating Procedure are prepared by the faculty members in charge of respective laboratories and are kept for reference to the students.
- Concurrent audit is carried out by the committee after completion of every assessments and suggestions are forwarded to IQAC for effective implementation of quality assurance.
- Mentors assigned with a batch of 15-20 students and meet the students during mentor hour every week and counsel them for academic progress and on personal issues for further enhancement.
- Class committee meetings are conducted with Chairperson, faculty members and student representatives after the Assessments and performance of the students are reviewed.
- Remedial classes are conducted for the slow learners during evening hours based on their performance in regular first hour tests and assessments conducted.

- The Co-curricular activities are evaluated by IQAC to ensure the quality in curriculum enrichment.
- Model theory and practical examinations are conducted and evaluated by the committee. Assessments marks along with attendance particulars are uploaded in the University web portal for Internal Marks Calculation.
- University Examinations for theory and practicals are conducted by the affiliating University and results are declared.
- Academic audit is conducted by IQAC and evaluation input is submitted for faculty appraisal.

**The Outcomes are:**

- Continuous review on teaching-learning process with details of structure and methodologies presented above ensures the quality of the institutional mechanism and more University ranks are achieved.

**6.5.3 Average number of quality initiatives by IQAC for promoting quality culture per year**

**Response:** 0

**6.5.3.1 Number of quality initiatives by IQAC for promoting quality year-wise for the last five years**

2016-17	2015-16	2014-15	2013-14	2012-13
0	0	0	0	0

<b>File Description</b>	<b>Document</b>
Number of quality initiatives by IQAC per year for promoting quality culture	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

**6.5.4 Quality assurance initiatives of the institution include:**

- 1.Regular meeting of Internal Quality Assurance Cell (IQAC); timely submission of Annual Quality Assurance Report (AQAR) to NAAC; Feedback collected, analysed and used for improvements**
- 2.Academic Administrative Audit (AAA) and initiation of follow up action**
- 3.Participation in NIRF**
- 4.ISO Certification**
- 5.NBA or any other quality audit**

**A. Any 4 of the above**

**B. Any 3 of the above**

**C. Any 2 of the above**

**D. Any 1 of the above**

**Response:** D. Any 1 of the above

File Description	Document
Details of Quality assurance initiatives of the institution	<a href="#">View Document</a>
e-copies of the accreditations and certifications	<a href="#">View Document</a>

### **6.5.5 Incremental improvements made during the preceding five years (*in case of first cycle*) Post accreditation quality initiatives (*second and subsequent cycles*)**

**Response:**

From the inception, our institution is constantly focusing on its overall development in all aspects, particularly academic and administrative activities.

#### Administrative incremental Improvements

Permanent affiliation for the UG programmes Biotechnology, CSE and ECE in the year 2012-13, EEE in the year 2016-17 and MBA in the year 2013-14; NBA Accreditation to the UG programmes Biotechnology, Mechanical Engineering, CSE, EEE and ECE; Establishment of smart classrooms with ICT tools; Establishment of Anti-ragging Cell, Women Empowerment Cell, Grievance Redressal Cell & Women Harassment Cell; Organizing Anna University Zonal sports; Establishment of New Block for Automobile Engineering, Mechanical Engineering and Biomedical engineering are the major administrative increments of our institution.

#### Academic Incremental improvements

DSIR approval for the research activities; Research Centre recognition for Ph.D programme in Biotechnology, CSE, ECE and Chemistry; Conduct of evening Coaching classes, remedial classes and first hour tests; Introduction of new UG courses in Biomedical Engineering and Civil Engineering and PG courses in Manufacturing Engineering and VLSI Design are the major academic incremental improvements in the preceding five years.

Institution has been awarded with Best Engineering College of the year 2016 by the Higher Education Review based on its infrastructure, faculty and collaboration with other institution.

Every year our students are receiving University Ranks in various departments. In the last five years our students have obtained 43 University Ranks

<b>File Description</b>	<b>Document</b>
Any additional information	<a href="#">View Document</a>

NAAC

## Criterion 7 - Institutional Values and Best Practices

### 7.1 Institutional Values and Social Responsibilities

**7.1.1 Number of gender equity promotion programs organized by the institution during the last five years**

**Response:** 16

7.1.1.1 Number of gender equity promotion programs organized by the institution year wise during the last five years

2016-17	2015-16	2014-15	2013-14	2012-13
4	3	3	3	3

**File Description**

**Document**

List of gender equity promotion programs organized by the institution

[View Document](#)

**7.1.2**

**1. Institution shows gender sensitivity in providing facilities such as:**

- 1. Safety and Security**
- 2. Counselling**
- 3. Common Room**

**Response:**

**a) Safety and Security**

KVCET has the policy of providing an educational, employment and business environment, free of discrimination based on age, race, color, religion, national origin, gender, disability, genetic disorder or veteran status. Board of Trustees, administrators, faculty, staff, and stakeholders discourage harassment, discrimination, and violence of any kind. All safety and security measures such as Discipline committees, Women Empowerment Cell, Security personnel, surveillance through CCTV cameras and fire extinguishers are existing on the campus.

**b) Counseling**

Student's personal issues are counseled and resolved by senior professor Dr.R.Balasubramanian, HOD / S&H. Sensitive cases are referred to Grievance Redressal Cell. Highly sensitive students are informed to their parents. Counseling will be given in all working days and Parents can meet counselor with the prior appointment during all working days.

- **Career Counseling**

The students are given career guidance and counseling on industrial needs, opportunities available, management and professional ethics, Entrepreneurship, higher studies abroad, etc. Lectures are delivered by industrialists and experts regularly. Some of the experts who delivered lectures are

Mr.Kiran, Nissan India Ltd.,

Ms. Francina Priya, Senior HR consultant from Infosys, Bangalore,

Mr.Krishnakumar, IIT (India) Pvt. Ltd. (a subsidiary of IIT, Chicago) and others.

- **Psycho-social Counseling**

Dr. Sethumathavan, Psychiatrist, Karpaga Vinayaga Institute of Medical Sciences regularly visit and counsel our students for their health and stress management and fostering their resilience and tools to express and overcome grief and adversity.

- **Mentoring**

The major objective of the mentoring is to facilitate the Academic, Emotional, Social and cognitive development of the students to empower them in their learning and personal development. Dr.Ramesh, HOD / Physics, Chief Mentor monitors the smooth functioning of the mentoring process. 15 - 20 students are assigned with each mentor and resolve academic issues during the mentor hour as scheduled.

### c) Common Room

A separate common room facility is provided for both boys and girls.

### 7.1.3 Alternate Energy initiatives such as:

#### 1. Percentage of annual power requirement of the Institution met by the renewable energy sources

**Response:** 8.33

#### 7.1.3.1 Annual power requirement met by the renewable energy sources (in KWH)

Response: 20

#### 7.1.3.2 Total annual power requirement (in KWH)

Response: 240

File Description	Document
Details of power requirement of the Institution met by renewable energy sources	<a href="#">View Document</a>

**7.1.4 Percentage of annual lighting power requirements met through LED bulbs****Response:** 31.04**7.1.4.1 Annual lighting power requirement met through LED bulbs (in KWH)****Response:** 35.7**7.1.4.2 Annual lighting power requirement (in KWH)****Response:** 115**File Description****Document**

Details of lighting power requirements met through LED bulbs

[View Document](#)**7.1.5 Waste Management steps including:**

- **Solid waste management**
- **Liquid waste management**
- **E-waste management**

**Response:****Solid Waste Management**

- Kitchen Waste and unused Bottles are disposed of through nearby external source.
- Waste Papers, Worksheets, News Papers, etc., are disposed of through ITC Global Pvt Ltd, Global Waste Recycle Agency, with a MoU signed between KVCET and ITC under the motto of saving the environment.

**Liquid Waste Management**

- Recycling of wastewater has been undertaken to reuse the water from bathrooms and kitchen cleaning areas for gardening purposes.
- Biomedical liquid waste management is carried out through STTP

**e-Waste Management**

- Certain number of usable electronic items such as personal computers / accessories etc are used for demonstration purposes for school students.
- Obsolete items of personal computers / accessories and other electronic items are disposed through the agencies / vendors who dealt with e-waste disposal.

**7.1.6 Rain water harvesting structures and utilization in the campus**

**Response:**

- Rainwater harvesting is carried out in all the buildings by using 6 pits and is connected to the nearby wells for increasing storage water used for drinking purposes. Rainwater harvesting recharges the borewells by increasing the groundwater level in the campus.
- The water in the borewells in turn pumped to the overhead tank and Sintex tanks with total capacity of 27,000 litres at the terrace, for distribution to water coolers (through RO Plant) and directly to the restrooms for boys and girls and for the laboratories.
- Rainwater collected is used for hostel restrooms for bath and laundry purposes by the students and for cleaning of dishes and utensils in the mess.
- The playgrounds and outdoor games courts are maintained regularly using the rainwater available.
- Recycled water is used for gardening purposes in the campus.

File Description	Document
Any additional information	<a href="#">View Document</a>

**7.1.7 Green Practices**

- **Students, staff using**
  - a) **Bicycles**
  - b) **Public Transport**
  - c) **Pedestrian friendly roads**
- **Plastic-free campus**
- **Paperless office**
- **Green landscaping with trees and plants**

**Response:**

The institution conducts the green audit every year. KVCET recognizes that unchecked human activity can have a detrimental impact on serious environmental concerns such as global warming, deforestation and biodiversity loss. For countering this, the institution is fully committed towards the reduction of carbon footprint and promotion of sustainable development at all levels.

Major goal is to operate a technical educational institute of repute and contribute positively to the environment at the same time. We intend to achieve this by adopting the following steps.

- Minimizing pollution and waste on our campus
- Buying environmentally intelligent products
- Stressing on energy conservation and using alternative sources wherever applicable
- Informing and educating all our students and staff about the same

A peaceful and pollution free environment is necessary for the college which plays an important role in the success of every student in increasing the concentration and get succeed. Our institution helps to maintain a green environment through the following:



## **Bicycles**

The campus is more of walk friendly. Both staff and students are encouraged to use bicycles on the campus. Students are not permitted to operate two-wheelers within the campus.

## **Public Transport**

Students studying as day scholars are utilizing the public transport systems from the nearby areas like Madurnanthagam, Chengalpattu, Uthiramerur, etc., as the institution is located at Trichy-Chennai National Highway and the frequency of transport system is adequate for students to commute. Students also use train facilities from Chennai and Kancheepuram.

## **Pedestrian Friendly Roads**

Pedestrian friendly roads are provided with pavements on either side of the road from the main entrance to all the buildings for students and faculty to walk freely.

## **Plastic-free campus**

Our college students and faculty have made a commitment to reduce plastic footprint; pledging to measurably reduce plastic pollution on college campus, with a particular focus on the reduction and elimination of plastic bottles, plastic straws and utensils, single-use plastic bags and plastic or “Styrofoam” food packaging.

## **Paperless office**

Here are five cutting-edge ways followed in the institution to cut paper out of daily routine:

- Internal Documents are shared through intranet available without printing
- Paperless statements are maintained through the online transaction of bill payments.
- For Storage and file sharing, Dropbox in Email through the Internet is effectively used.
- Team Viewer, an office package allows faculty members to have remote access to office computers 24/7 through their computers and Smartphones. It has additional features for screen sharing during presentations, transmitting videos, sharing files teleconferencing and virtual classrooms.
- Scanning and Faxing are done through the FAX Machine for all stakeholders.

## **Green landscaping with trees and plants**

The campus has plenty of trees and gardens that are well maintained and NSS is regularly maintaining the campus. They also plant saplings on special occasions during days of national importance. The following activities are undertaken for our campus to be green.

- Reduction of water usage through recycling water.
- Saving electricity consumption by the installation of solar panel and using LED bulbs.
- Rainwater Harvesting facility is carried out in all blocks
- MoU has been signed with ITC, “Wealth on waste” for recycling of used papers through the authorized agency, M/s. Global Waste Recyclers Ltd.

**7.1.8 Average percentage expenditure on green initiatives and waste management excluding salary component during the last five years****Response:** 0.83

7.1.8.1 Total expenditure on green initiatives and waste management excluding salary component year wise during the last five years(INR in Lakhs)

2016-17	2015-16	2014-15	2013-14	2012-13
4.95	2.55	19.60	1.08	5.65

**File Description****Document**

Details of expenditure on green initiatives and waste management during the last five years

[View Document](#)**7.1.9 Differently abled (Divyangjan) Friendliness Resources available in the institution:**

1. Physical facilities
2. Provision for lift
3. Ramp / Rails
4. Braille Software/facilities
5. Rest Rooms
6. Scribes for examination
7. Special skill development for differently abled students
8. Any other similar facility (Specify)

**A. 7 and more of the above****B. At least 6 of the above****C. At least 4 of the above****D. At least 2 of the above****Response:** B. At least 6 of the above**File Description****Document**

Resources available in the institution for Divyangjan

[View Document](#)**7.1.10 Number of Specific initiatives to address locational advantages and disadvantages during the last five years**

**Response: 26**

7.1.10.1 Number of specific initiatives to address locational advantages and disadvantages year wise during the last five years

2016-17	2015-16	2014-15	2013-14	2012-13
4	6	5	6	5

File Description	Document
Any additional information	<a href="#">View Document</a>
Number of Specific initiatives to address locational advantages and disadvantages	<a href="#">View Document</a>

**7.1.11 Number of initiatives taken to engage with and contribute to local community during the last five years (Not addressed elsewhere)****Response: 6**

7.1.11.1 Number of initiatives taken to engage with and contribute to local community year wise during the last five years

2016-17	2015-16	2014-15	2013-14	2012-13
2	1	1	1	1

File Description	Document
Details of initiatives taken to engage with local community during the last five years	<a href="#">View Document</a>

**7.1.12****Code of conduct handbook exists for students, teachers, governing body, administration including Vice Chancellor / Director / Principal /Officials and support staff****Response: Yes**

File Description	Document
URL to Handbook on code of conduct for students and teachers , manuals and brochures on human values and professional ethics	<a href="#">View Document</a>

<b>7.1.13 Display of core values in the institution and on its website</b>	
<b>Response:</b> Yes	
<b>File Description</b>	<b>Document</b>
Provide URL of website that displays core values	<a href="#">View Document</a>

<b>7.1.14 The institution plans and organizes appropriate activities to increase consciousness about national identities and symbols; Fundamental Duties and Rights of Indian citizens and other constitutional obligations</b>	
<b>Response:</b> Yes	
<b>File Description</b>	<b>Document</b>
Details of activities organized to increase consciousness about national identities and symbols	<a href="#">View Document</a>

<b>7.1.15 The institution offers a course on Human Values and professional ethics</b>	
<b>Response:</b> Yes	
<b>File Description</b>	<b>Document</b>
Any additional information	<a href="#">View Document</a>
Provide link to Courses on Human Values and professional ethics on Institutional website	<a href="#">View Document</a>

<b>7.1.16 The institution functioning is as per professional code of prescribed / suggested by statutory bodies / regulatory authorities for different professions</b>	
<b>Response:</b> Yes	
<b>File Description</b>	<b>Document</b>
Provide URL of supporting documents to prove institution functions as per professional code	<a href="#">View Document</a>

<b>7.1.17 Number of activities conducted for promotion of universal values (Truth, Righteous conduct, Love, Non-Violence and peace); national values, human values, national integration, communal harmony and social cohesion as well as for observance of fundamental duties during the last five years</b>	
<b>Response:</b> 51	

File Description	Document
List of activities conducted for promotion of universal values	<a href="#">View Document</a>

### 7.1.18 Institution organizes national festivals and birth / death anniversaries of the great Indian personalities

#### Response:

Yes.

The institution organizes the following National festivals every year in the presence of Students, faculty members and the management within the college premises.

- Pongal Festival (Thai Thiru Naal)
- Diwali
- Ramzan
- Christmas (December 25)
- Tamil New Year (April 14)
- English New Year (January 1)
- Ugadhi (Telugu New Year)

The institution organizes the following anniversaries of the great Indian personalities

- Gandhi Jayanthi (October 2)
- Dr.Visvesvaraya Birthday (December 11 - Engineer's Day)
- Dr.A.P.J. Abdul Kalam Birthday (October 15)
- Dr.Radhakrishnan Birthday (September 5 - Teacher's Day)
- Jawaharlal Nehru Birthday (November 14 - Children's Day)

File Description	Document
Any additional information	<a href="#">View Document</a>

### 7.1.19 The institution maintains complete transparency in its financial, academic, administrative and auxiliary functions

#### Response:

YES.

The institution maintains complete transparency in financial transactions, academic and administrative

activities utmost care.

- The accounts and daily transactions are done internally by the Accounts department on daily basis. The annual audit is carried out by the statutory auditor. The income tax returns, professional taxes, institutional taxes are being remitted by the finance officer. Internal audit is done once in a year.
- The institution is focussing on the overall improvements in academic and administrative activities. It encourages all the stakeholders for their suggestions through the feedback system in a transparent way and striving to implement them after the thorough evaluation.

## 7.2 Best Practices

### 7.2.1 Describe at least two institutional best practices (as per NAAC Format)

**Response:**

#### **Best Practice - I**

##### **Title of the Practice**

Peer Group activities – Promoting innovative and novel ideas to live projects

##### **Objectives of the Practice**

- To create innovative thinking for design and development
- To achieve ideas and design into prototype product by the students to build confidence in them
- To inculcate research attitude among students

##### **The Context**

Contextual Features/ challenging issues to be addressed

- The features of Peer Group activities are
  - Literature survey
  - Identification of product and related work done
  - Innovation, novelty and originality
  - Design and fabrication of prototype model
  - Product development
  - Real-time implementation and application
  - Patent and copyright
- One of the challenging issues is to find sufficient time for the project during academic activities

##### **The Practice**

- The potential faculty member identifies the interested students for the Peer Group, comprising of students of IV, III, II year UG and a PG in their discipline of Engineering / Technology.
- The area of interest and in turn title of the project with budget involved is presented to the

evaluation committee.

- The committee approves the project based on novelty, innovation, quality, viability; application oriented and stipulated time of completion.
- After approval, Peer group students will carry out design, fabrication, testing and develop a prototype working model.
- The Peer Groups present their work in a phased manner to the committee for suggestions and improvements to be incorporated.
- The committee will review and evaluate periodically the progress made for the successful implementation of the project.
- The completed projects will be demonstrated by all the Peer Groups and by merit, awards will be presented to the best 3 projects with the cash prize.
- Uniqueness in this practice is that the projects are carried out, apart from the prescribed curriculum by the affiliating University, in the stipulated time.

### **Evidence of Success**

- During the course of implementation of the projects, the peer groups exhibit skills of communication, working effectively as a team, engaging them in self-evaluation and reflection, bringing out graphical & visual representation and exercising creative and intuitive instincts.
- All the students get adequate knowledge and skills as a platform for doing their final year projects (curriculum based) effectively.
- Based on the peer group projects, the students of automobile engineering have developed solar powered bike, solar powered car and self balancing bike and won awards in National Level competitions during the year 2015-16, 2015-16, 2016-17 respectively.
- As an innovative activity mini heater has been designed and fabricated by Student of ECE in the year 2012-13 and won Limca award.
- The Department of Biomedical Engineering students developed sweat based glucometer.

### **Problems Encountered and Resources Required**

The Peer Group students are hard pressed with limited time to complete their Peer Group project apart from the time schedule on assessments and University examinations as a part of their curriculum study as prescribed by the affiliating University. In certain cases, financial constraints are encountered by the students to meet out expenses on projects.

### **Best Practice - II**

#### **Title of the Practice**

**Students Mentoring System** – The major objective of the mentoring is to facilitate the Academic, Emotional, Social and cognitive development of the students to empower them in their learning and personal development.

#### **Objectives of the Practice**

- To facilitate academic, social and cognitive development of the students to empower them in their

- learning and personal development
- To make students emotionally stable in sensitive situations
- To promote clarity in thinking and decision making among students

## **The Context**

Contextual Features/ challenging issues to be addressed

- The features of students mentoring activities are
  - Collection of student's personal details
  - Identification of issues for a particular student
  - Counseling and suggestions
  - Parent – mentor interactions
  - Psychosocial counseling, if needed
  - Remedial suggestions & regular observations for further improvement
- One of the challenging issues is to counsel student from the very poor economic background from drop out.

## **The Practice**

### **Academic counseling**

- 15 - 20 students are assigned with each mentor and are counseled on academic issues during the mentor hour as scheduled.
- Their doubts are cleared and encouraged to solve many Question Banks

### **Personal Counseling**

- Student counselor meets the students and parents on personal issues and resolves them.
- Sensitive cases are referred to Chief Mentor, Gender Issue Cell/ Women Empowerment Cell for further counselling.

### **Career Counseling**

- Mentors counsel students on career guidance, industrial needs, opportunities available, management and professional ethics, Entrepreneurship, etc.

### **Psycho-social Counseling**

- Dr. Sethumathavan from Karpaga Vinayaga Institute of Medical Sciences, regularly visit and counsel our students for their health and stress management and fostering their resilience and tools to express and overcome grief and adversity.
- Very sensitive cases are informed to their parents for remedial measures.
- Counseling will be given on all working days. Parents can meet counselor with the prior appointment during all working days.

## **Evidence of Success**



- Improvements in performance in the daily test, internal assessments, Model and University examinations are evidence of the success of student's involvement in the regular learning process.
- The regularity to college, involvement in co-curricular activities and committed towards the academic work and discipline of the students after counseling is the evidence of their positive behavioral changes.

#### **Problems Encountered and Resources Required**

- The students have limited time to interact with their mentor apart from the time schedule on the timetable.
- Inadequate availability of time for faculty members to aid students' community as mentor beyond college hours.

### **7.3 Institutional Distinctiveness**

#### **7.3.1 Describe/Explain the performance of the institution in one area distinctive to its vision, priority and thrust**

##### **Response:**

The Human values and social responsibilities are inculcated among the students for socio-economic transformation.

**Inculcation of Human values with Social Responsibility** – The major objectives of this practice is to create awareness and educate needy people of nearby downtrodden community on personal health and environment, nutrition and hygiene, energy & resources management.

##### **Goals**

- To create awareness on personal health and nutrition among school children and youth of the nearby villages
- To create awareness on hazards of chemicals and fertilizers and the uses of organic farming among farming community
- To create awareness among people of the adopted village about Swachh Bharat, Save Electricity, Water Conservation, Swachh Pakhwada, etc.

##### **Key activities**

- Organizing Medical/Dental camps in nearby villages regularly
- Conduct of Awareness Rallies in nearby townships and villages
- Conduct of NSS camps for community development
- KVCET – MTU Enterprise programmes
- Conduct of blood donation camps in collaboration with Rotary / Lions club
- Yearly training programme on organic farming for farmers

##### **Medical / Dental Camps**

- Every year, medical and dental camps are organized in the adopted village in association with Karpaga Vinayaga Institute of Medical Sciences & Karpaga Vinayaga Institute of Dental Sciences to create awareness on personal health among rural community.
- Organizing of blood donation camps in collaboration with Lions / Rotary clubs.

#### **Awareness rallies**

- The institution is regularly organizing awareness rallies on Swachh Bharath, Swachh Pakhwada, Right to Vote, Save Electricity, Avoid Plastics, Water Conservation, Green Environment, Dengue fever in nearby Townships and villages.

#### **NSS / YRC activities**

- In the adopted village, NSS volunteers are involved in creating awareness on personal health, clean & green environment.
- The campus of the Govt. school and Temples are cleaned by the volunteers during the camp.
- YRC periodically organizes Awareness programmes on Road Safety, Traffic Rules, Blood donation, Literacy, etc.

#### **KVCET – MTU Enterprise programme**

- KVCET – MTU Enterprise is an initiative of our institution through the MoU signed with Michigan Technological University, USA for mutual exchange of students.
- Through this programme, the students of MTU, USA adopt a village and involved in research and welfare activities related to environmental management and green environment along with our students.
- Students have developed a natural water purification system for the people in the adopted village Kunnangkulathur of Vaiyavoor Panchayat, Kanchipuram Dist.

#### **Training Programme for farmers' community**

- Every year, the institution is organizing special training programme for the nearby farming community and creating awareness on Organic farming and their advantages and the ill effects of chemicals, fertilizers and pesticides.

#### **Outcome & Barriers**

- The continuous support and active co-operation extended by the local community for these programmes are the evidence of our success.
- Increase in the number of students involved, water purification system developed by our students and the response of the local community are evidence of our success.
- The institution is keenly looking to have MoU with NGOs whoever is actively interested and involved in community welfare activities.
- Inadequate availability of time to utilize our college students actively for these programmes during their regular academic activities.

NAAC

## 5. CONCLUSION

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### **Additional Information :**

As an ear mark in the history of Karpaga Vinayaga College of Engineering and Technology recently the UGC has recognized the institution under 12(B) and 2(f) category (vide File No.8-634/2015 (CPP-i/C) dated 28.12.2017.

### **Concluding Remarks :**

The salient points presented above with regard to the seven criterions, speak themselves for the KVCET's stride towards academic and research achievements. The college is every year looked back all its performances and reviewed for the improvement and quality enhancement. It is proud to note that many of our functional procedures are taken as benchmarking by other colleges. The institution is fully committed to the quality of education for all its stakeholders.