



Autonomous | Affiliated to Anna University, Chennai
Accredited by NAAC with 'A' Grade | Accredited by NBA (ECE, EEE, CSE and IT)

ANNUAL QUALITY ASSURANCE REPORT (AQAR)

**Academic Year
2016 –17**

SUBMITTED TO



राष्ट्रीय मूल्यांकन एवं प्रत्यायन परिषद्

विश्वविद्यालय अनुदान आयोग का स्वायत्त संस्थान

NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL

An Autonomous Institution of the University Grants Commission

P. O. Box. No. 1075, Opp: NLSIU, Nagarbhavi, Bangalore - 560 072 India

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Abbreviations

CAS	-	Career Advanced Scheme
CAT	-	Common Admission Test
CBCS	-	Choice Based Credit System
CE	-	Centre for Excellence
COP	-	Career Oriented Programme
CPE	-	College with Potential for Excellence
DPE	-	Department with Potential for Excellence
GATE	-	Graduate Aptitude Test
NET	-	National Eligibility Test
PEI	-	Physical Education Institution
SAP	-	Special Assistance Programme
SF	-	Self Financing
SLET	-	State Level Eligibility Test
TEI	-	Teacher Education Institution
UPE	-	University with Potential Excellence
UPSC	-	Union Public Service Commission

The Annual Quality Assurance Report (AQAR)

All NAAC accredited Institutions will submit an annual self-reviewed progress report to NAAC, through its IQAC. The report is to detail the tangible results achieved in key areas, specifically identified by the Institutional IQAC at the beginning of the academic year. The AQAR will detail the results of the perspective plan worked out by the IQAC.

Part – A

AQAR for the year

June 1, 2016 – May 31, 2017

1. Details of the Institution

1.1 Name of the Institution

KARPAGAM COLLEGE OF ENGINEERING

1.2 Address Line 1

Myleripalayam Village

Address Line 2

Othakkalmandapam

City/Town

Coimbatore

State

Tamilnadu

Pin Code

641032

Institution e-mail address

principal@kce.ac.in

Contact Nos.

0422-2619041
0422-2619042

Name of the Head of the Institution:

Dr. P. VIJAYAKUMAR

Tel. No. with STD Code:

0422-2619030

Mobile:

9894994643

Name of the IQAC Director:

P.Sundaram
Associate Professor / Mechanical Engineering

Mobile:

8056128236

IQAC e-mail address:

iqac@kce.ac.in

1.3 NAAC Track ID

TNCOGN25084

OR

**1.4 NAAC Executive Committee No. &
Date:**

EC (SC)/11/ A&A/57.1
dated 19.01.2016

1.5 Website address:

www.kce.ac.in

Web-link of the AQAR:

www.kce.ac.in/ KCE_AQAR_2016-17.doc

1.6 Accreditation Details

S. No.	Cycle	Grade	CGPA	Year of Accreditation	Validity Period
1	1 st Cycle	A	3.32	2016	5 Years
2	2 nd Cycle	-	-	-	-
3	3 rd Cycle	-	-	-	-
4	4 th Cycle	-	-	-	-

1.7 Date of Establishment of IQAC:

12/10/2015

1.8 Details of the previous year's AQAR submitted to NAAC after the latest Assessment and Accreditation by NAAC

The first cycle of accreditation was obtained on 19th January 2016; the first AQAR for the academic year 2015-16 was submitted to NAAC on 2nd November 2016

1.9 Institutional Status (Refer Annexure I and II)

University State ☐ Central ☐ Deemed ☐ Private ☐

Affiliated College Yes ☒ No ☐

Constituent College Yes ☐ No ☒

Autonomous College of UGC Yes ☒ No ☐

Regulatory Agency approved Institution Yes ☒ No ☐

Type of Institution Co-education ☒ Men ☐ Women ☐

Urban ☐ Rural ☒ Tribal ☐

Financial Status Grant-in-aid ☐ UGC 2(f) ☒ UGC 12B ☒

Grant-in-aid + Self Financing ☐ Totally Self-financing ☒

1.10 Type of Faculty/Programme

Arts	<input type="checkbox"/>	Science	<input checked="" type="checkbox"/>	Commerce	<input type="checkbox"/>	Law	<input type="checkbox"/>	PEI (Phys Edu)	<input type="checkbox"/>
TEI (Edu)	<input type="checkbox"/>	Engineering	<input checked="" type="checkbox"/>	Health Science	<input type="checkbox"/>	Management	<input checked="" type="checkbox"/>		
Others (Specify)	<input type="text" value="---"/>								

1.11 Name of the Affiliating University (for the Colleges)

ANNA UNIVERSITY, CHENNAI

1.12 Special status conferred by Central/ State Government-- UGC/CSIR/DST/DBT/ICMR etc

Autonomy by State/Central Govt. / University

UGC & ANNA UNIVERSITY

University with Potential for Excellence

NA

UGC-CPE

NA

DST Star Scheme

NA

UGC-CE

NA

UGC-Special Assistance Programme

NA

DST-FIST

NA

UGC-Innovative PG programmes

NA

Any other (Specify)

UGC-COP Programmes

NA

2. Composition of IQAC and its Activities

2.1 No. of Teachers

8

2.2 No. of Administrative/Technical staff

2

2.3 No. of Students

1

2.4 No. of Management Representatives

1

2.5 No. of Alumni

1

2.6 No. of any other Stakeholder and
Community Representatives

2

2.7 No. of Employers/ Industrialists

1

2.8 No. of other External Experts

2

2.9 Total No. of members

18

2.10 No. of IQAC meetings held

3

2.11 No. of meetings with various stakeholders: No.

6

Faculty

4

Non-Teaching Staff Students

1

Alumni

1

Others

-

2.12 Has IQAC received any funding from UGC during the year? Yes

No

✓

If yes, mention the amount

-

2.13 Seminars and Conferences (only quality related)

(i) No. of Seminars/Conferences/ Workshops/Symposia organized by the IQAC

Total Nos.

3

International

-

National

-

State

-

Institution Level

3

(ii) Themes

1. Quality Improvement of the Evaluation process
2. "Brain Storming" on creation of quality consciousness
3. Workshop on effective teaching methodologies under the aegis of Centre for Excellence in Learning and Teaching (CELT)

2.14 Significant Activities and contributions made by IQAC

Internal Quality Assurance Cell (IQAC) is formed to develop a system for conscious, consistent and catalytic improvement in the overall performance of the Institution. It is aimed to internalise and institutionalise the quality improvement procedure. Besides, it will be a facilitative and participative team for quality enhancement initiatives by working out planned interventionist strategies to remove deficiencies and enhance quality on continual basis in the academic processes of the Institution.

With the above objectives in mind and to work towards II cycle of accreditation process, the following were organised by IQAC during the academic year.

S.No.	Activities	Date(s)
1	One day workshop on Quality Improvement of the Evaluation process	10 th June 2016
2	Brain Storming Session on creation of Quality Consciousness among stake holders in the Campus	20 th July 2016
3	One day workshop on Effective teaching methodologies and inauguration of Centre for Excellence in Learning and Teaching (CELT)	03 rd Dec 2016

2.15 Plan of Action by IQAC/Outcome

The outcome of the workshop on “Quality Improvement of the Evaluation Process” enabled the faculty to follow Blooms taxonomy on the question paper setting based on the Higher and Lower order thinking skills. The “Brain storming” session with Head of departments created quality consciousness among the participants and the same exercise was attempted pan campus at every programme centre involving all other stakeholders. Further as per the decision of IQAC in fifth meeting, the composition of the cell is modified by nomination of additional industry / academic experts. The sixth meeting specially focussed to improve research and consultancy services as the Institution has been recognised under clause 2(f) and 12(b) of UGC. The Research Committee of the Institution periodically reviews the research progress and encourages applying for grants from reputed agencies. A proposal was sent to NAAC on 22nd Feb 2017 by IQAC seeking grants for conducting a National level Seminar during the month of August 2017.

It is always our endeavour to monitor for improvement and take corrective measures in Teaching Learning and Evaluation (TLE) process. In order to strengthen the internal academic audit, a number of initiatives have been taken. The first step being auditing of course delivery and related records maintained by each faculty. Further Outcome Based Education (OBE) methods are implemented with good spirit. In order to disseminate the OBE contents, workshops are periodically organised for the benefit of staff members. Rigorous scrutiny of the evaluation process is attempted such as question paper setting, answer key preparation, evaluation of scripts and also mapping of course outcomes/ program outcomes for attainment of program educational objectives. This being an ongoing exercise, Internal Academic Audit (IAA) is continuously monitoring the TLE process.

The other initiative is the establishment of Centre for Excellence in Learning and Teaching (CELT). The same was inaugurated in December 2016 which organises regular programmes to motivate, enlighten and build confidence on professional teaching for the staff members. Further the students are grouped based on their performance in Continuous Internal Assessment (CIA) as slow/ normal/ fast learners. Various initiatives catering to the requirement of these groups are put in place. The flip for such an exercise is got by the introduction Choice Based Credit system (CBCS) since 2015. Thus the students get fair treatment and leeway in their quest to acquire professional knowledge and skill as per their choice/ pace of knowledge assimilation.

Thus quality improvement is continuously undertaken in the campus. The management too is a source of inspiration besides establishing the required facilities in the Institution.

2.16 Whether the AQAR was placed in statutory body Yes ☒ No ☐
 Management ☒ Syndicate ☐ Any other body ☐

Significant Achievements of the Institution

The IQAC plays a vital role in quality improvements focussing on all the areas. Due to its proactive role and initiatives a number of awards/ achievements were possible.

- During the academic year 2016-17, 760 placement offers received by 557 students from a number of reputed companies like CTS, Infosys, Wipro, Amazon, Zoho, Informatica, Odessa, iNautix, Aadhi Maruthi etc.
- Inauguration of “Australia-India Health Care Data Acquisition and Analytics Research Centre” held on 14th October 2016 Prof. Andrew Stranieri of Federation University, Australia inaugurated the centre and at that time a Bipartite agreement on Bio telemetric is also signed between the Institution and the University.
- Arun Kumar S and VishnuPriya S students of ECE won the prestigious “Infy Maker Award 2016” from Infosys Foundation, USA. Their invention is focused on cleaning the dustbins lining streets using IOT (Internet of things) in future concept.
- Gokul S, bagged second place in Energy Sector in “Make in India” contest, organized by Indian Institute of Technology, Bombay.
- S.T.Nivetha, Student of ECE received “Best NSS Volunteer” award from Anna University, Chennai.
- The Women Volley Ball team won a ‘Gold Medal’ in zone 10 of Anna University Volley Ball (women) Tournament held at Sri Ramakrishna Institute of Technology, Coimbatore
- The Athletics team won a Gold and two Bronze Medals in zone 10 of Anna University Athletics Men and Women meet held at Hindusthan College of Engineering and Technology, Coimbatore
- The Institution is awarded with LIMCA Book of Records for the development maximum number of Apps within a short period of time. (2500+ apps within 30 minutes)

Part – B

Criterion – I

1. Curricular Aspects

1.1 Details about Academic Programmes

Level of the Programme	Number of existing Programmes	Number of programmes added during the year	Number of self-financing programmes	Number of value added / Career Oriented programmes
PhD	4	-	4	-
PG	5	-	5	-
UG	9	-	9	-
PG Diploma	-	-	-	-
Advanced Diploma	-	-	-	-
Diploma	-	-	-	-
Certificate	-	-	-	-
Others	-	-	-	14
Total	18	-	18	14

Interdisciplinary	1	-	-	-
Innovative	-	-	-	-

1.2 (i) Flexibility of the Curriculum: CBCS/Core/Elective option / Open options

(ii) Pattern of programmes:

Pattern	Number of programmes
Semester	14
Trimester	-
Annual	-

Programmes offered by the Institute

Under Graduate Programme 4 Years	Post Graduate Programme 2 or 3 Years
B.E-Civil Engineering	
B.E- Electrical Electronics Engineering	
B.E- Electronics and Communication Engineering	M.E- Communication Systems M.E- VLSI Design
B.E- Electronics and Tele-Communication Engineering	
B.E- Electronics and Instrumentation Engineering	
B.E-Computer Science and Engineering	
B.E-Mechanical Engineering	M.E- Mechatronics
B.E-Automobile Engineering	
B.Tech–Information Technology	
	M.B.A- Master of Business Administration
	M.C.A- Master of Computer Applications

1.3 Feedback from stakeholders*

Alumni ☒ Parents ☒ Employers ☒ Students ☒
(On all aspects)

Mode of feedback :

Online ☒ Manual ☒ Co-operating schools (for PEI) ☐

The Institution has a system of getting feedback from the students on teaching-learning process. The feedback is obtained from the students through on-line using a pre-devised format. The first feedback is obtained before CIA-I and the second before CIA-III. The feedback attributes are graded on a scale with a maximum of 5 points. A score below 3.5 is taken as unsatisfactory and hence remedial action is taken like sponsoring the faculty for FDP towards skill enhancement or counselling by the Principal towards improvements in teaching process.

*** Analysis of the feedback is provided in the Annexure – III**

1.4 Whether there is any revision/update of regulation or syllabi, if yes, mention their salient aspects.

Periodic revision of curriculum/ syllabus is carried out in the Institution. The recent initiation is the CBCS under 2015 regulations which is now implemented. In order to accommodate the latest developments and industry needs, a revision in the syllabi and curriculum is undertaken based on the Alumni/Employer feedback thus making the students 'market ready' and as future technologists.

1.5 Any new Department/Centre introduced during the year. If yes, give details.

- The Department of CSE established KCE-Algorithms Lab (KCEAL) with one server and ten clients for the benefit of students as well as the faculty for research in Data Structure and Algorithm

Criterion – II

2. Teaching, Learning and Evaluation

2.1 Total No. of permanent faculty (Academic year 2016-17)

Total	Asst. Professors	Associate Professors	Professors	Others
364	308	22	26	8

2.2 No. of permanent faculty with Ph.D.

44

2.3 No. of Faculty Positions Recruited (R) and Vacant (V) during the year

Asst. Professors		Associate Professors		Professors		Others	
R	V	R	V	R	V	R	V
69	0	1	0	5	0	2	0

2.4 No. of Guest and Visiting faculty and Temporary faculty:

- Visiting Faculty : 1
- Temporary Faculty : Nil

2.5 Faculty participation in conferences and symposia:

No. of Faculty	International level	National level	State level
Attended Seminars/ Workshops	-	110	-
Presented papers	30	11	-
Resource Persons	7	10	2

Details of the Conference presentation (Samples)

S. No	Name, Designation & Department	Paper Title	Name of the Conference	Date	level
1	Dr.M.Prakash, Professor/ CSE	An Improved Authentication Technique for Accessing De-duplicated Data from Cloud using One Time Password	Second International Conference on Cyber Security (ICCS2016), Rajasthan Technical University	13 th to 14 th Aug 2016	Inter national
		An Improved Secured Quality of Service Routing and Data Communication in Mobile Ad hoc Network	V I Institute, Chennai	7 th to 8 th Oct 2016	Inter national
2	Dr.S.Saravana Kumar, Prof/CSE	Efficiently Process in Reducing the Load Risk from Security Using ABR (Associate- Based Routing) Routing Protocol	The International Conference on Emerging Innovations in Computing and Technology at The Bright Hall, Mongkok, Hong Kong, IRO World Science and Technology Congress, Hong Kong.	23 rd to 24 th Sep 2016	Inter national
		Securing the Information Infrastructure for Every Network using Multi Dimensional Cloud Confidence			
		Designing to Identifying Efficient Key Management in Wormhole Attack			
		Multi-Keyword Ranked Search over Enabling Efficient Encrypted ad hoc Mobile cloud Data			
		Handoff Allocation During Travel by Time Based Algorithm			
		New Authorized Dynamic Multi Cloud Security			
		Analytics Method for Storing an Information Over Cloud Computing			
		A Cloud Brokerage Design for Efficient Cloud Service Choice	International Conference on Advanced Engineering and Technology (ICAET16) at VI Institute, Chennai.	7 th to 8 th Oct 2016	
		Automate Neural Network Intrusion Detection in Information Storage System			
		Study on Various Brain Tumour Classification Methods			

S. No	Name, Designation & Department	Paper Title	Name of the Conference	Date	level
	Dr.S.Saravana Kumar, Prof/CSE	Characteristics Approaches for Nanoscience Materials using Artificial Network.	International Conference on Advanced Engineering and Technology (ICAET16) at VI Institute, Chennai.	7 th to 8 th Oct 2016	Inter national
		Design over Wireless Mesh Networks to Improve TCP Performance			
		Digital Certificates Efficiently using NTUR.			
		Location Based Security for Personal Identification for Mobile Distributed System			
		An Efficient Bandwidth Reservation Scheme for Cellular Networks.			
		Authorized Dynamic Multi Cloud Security	IIER, Singapore	16 th to 17 th Dec 2016	Inter national
		A review on Parallel Logic Simulation	International conference ICKDCI 2017 at Vels University	5 th Mar 2017	
		Cloud Data Protection for the Masses	International conference ICKDCI 2017 at Vels University		
3	Dr.S.Angel Latha Mary, Prof/CSE	Effective Key Management in Dynamic Wireless Sensor Networks	ICAIC -17	24 th to 25 th Feb 2017	Inter national
4	E.Ramakalaivani and G.Suganya, AP/CSE	Comparison of Android Studio and Eclipse Tool for Android Application Development	National conference Recent Advances in Research and Engineering (RARE'17) at Jansons Institute of Technology, Coimbatore.	23 rd Mar 2017	National
5	J.Indira Priyadharshini, AP/EIE	Virtual Instrumentation based continuous monitoring and control of Drip Irrigation System in Agricultural Fields.	Fifth National Conference on Control, Communication and System Engineering, Tamilnadu College of Engineering	22 nd March 2017	National

S. No	Name, Designation & Department	Paper Title	Name of the Conference	Date	level
		A novel approach to human organ preservation system using virtual instrumentation	National Conference on Advances in Control, Power, Energy and Electronic Systems (ACPEES-2017) Bharat Institute of Engineering and Technology,	24 th to 26 th March 2017	National
6	T.Sivaranjani AP/EIE	Virtual Instrumentation based continuous monitoring and control of Drip Irrigation System in Agricultural Fields.	Fifth National Conference on Control, Communication and System Engineering, Tamilnadu College of Engineering	22 nd March 2017	National
		A novel approach to human organ preservation system using Virtual Instrumentation	National Conference on Advances in Control, Power, Energy and Electronic Systems (ACPEES-2017), Bharat Institute of Engineering and Technology	24 th to 26 th March 2017	National
7	E. Govindakumar AP/EIE	Cascade PID-Lead Compensator Controller for Non-overshoot Time Responses of unstable system	International Conference on Power Engineering, Computing and control (PECCON 2017) VIT University, Chennai	2 nd to 4 th March 2017	National
		Non-Overshoot Time Response of Third Order System using Cascade PID-Lead Compensator Controller	International Conference on Electrical, Computer and Communication Technologies (IEEE ICECCT 2017), SVS College of Engineering, Coimbatore	22 nd to 24 th Feb 2017	International
8	Dr.C.Krishnaraj Prof/Mech	Optimization of Pmedian Problems in Python Using Pulp Package	International Conference on E ² IC ² 2016	15 th Decem ber 2016	Inter national
		Optimization of Fixed Charge Problem in Python Using Pulp Package			

S. No	Name, Designation & Department	Paper Title	Name of the Conference	Date	level
		Solving Aggregate Planning Problem using Lingo	International Conference ISCO 2017	5 th & 6 th Jan 2017	
9	N.Subramani AP/Mech	Modern Composite Materials a Review	National Conference NCIET-2017	25 th Feb 2017	National
10	R.Masilamani AP/Mech	Study of Carbon Fiber Reinforced Plastics In Automobiles	International Conference on Recent Advancement in Mechanical Engineering ICRAMEK 2017, GCE, Salem	2 nd March 2017	Inter National
		Experimental Analysis of Reducing Steering Ratio in Steering Mechanism using 31Ni3Cr65Mo55 Planetary Gear			
		A review of Vehicle Roof Structure Analysis using CFRP	National Conference NCIET-2017	25 th Feb 2017	National
		Analysis of Mechanical Properties of Banana Fiber Reinforced Epoxy Composites			
11	R.Haridass AP/Mech	Heat Transfer Optimization Analysis of Heat Exchanges by Modifying the Geometry of Baffles using CFD Tools	National Conference NCIET	25 th Feb 2017	National
12	E.Vignesh AP/Mech	A Five Stroke Diesel Engine - review	National Conference NCIET		
13	K.Ramesh AP/Mech	Experimental Analysis of Reducing Steering Ratio in Steering Mechanism using 31Ni3Cr65Mo55 Planetary Gear	ICRAMEK 2017, GCE, Salem	2 nd March 2017	Inter national
		Analysis of Radiator Coolant Mixture Using Ethylene Glycol and Di-Ethylene Glycol	National Conference NCIET	25 th Feb 2017	National
		Performance Improvement of Pollution Control Device used in Small Scale Foundry Industry			

2.6 Innovative methods adopted by the Institution in Teaching and Learning:

INNOVATION IN TEACHING LEARNING PROCESS

SMART CLASS ROOM:

A Smart Class Room Solution is implemented to provide an interactive, rich multimedia content-enabled education system, which helps to understand abstract and difficult concepts with crystal clarity. It bridges the learning gap between faculty and students and helps them to realize their true potential.

e- LEARNING:

The Quality Improvement Cell of the College has created KCE- online resource centre for e-learning through online web and video courses in Engineering, Science and Humanities. All the faculty members and students can make use of this portal with the link <http://172.16.100.10:8084/KCENPTEL> in the campus. The KCE-Online Resource centre contains the following resources.

- NPTEL Video lectures jointly developed by the IITs and IISc
- Spoken tutorial consists of video tutorials for self learning of free and open source software developed by IIT Bombay
- Virtual Labs in various disciplines of Science and Engineering with additional web resources, video lectures and animated demonstrations developed by IITs
- Job seekers application package is available to students to improve their soft skills and prepare themselves for interviews and group discussions.

APPLICATION OF NETWORK:

The entire Campus is provided with internet facility and WIFI connectivity with 71 access points for students and faculty which enable them access e-journals and e-books to enrich their knowledge in the technical fields.

INFOSYS CAMPUS CONNECT AND WEBINAR

As an Institute Industry initiative, Infosys- Campus Connect and webinar are the major steps taken-up by the College.

Campus Connect: Infosys Limited extends their active co-operation for the development of IT skills of our students. This is achieved through their state of the art training tools and lectures offered. Besides their executives contribute in the development of syllabi by participating in the College “Board of Studies” meeting.

Webinar: It is a Video lecture delivered by eminent professionals of Infosys. A resource person through video conferencing delivers lecture on the latest development in the IT field. These initiatives improve the students’ knowledge besides updating their skill level at par with the needs of Industry.

C Exhibit “C” – Exhibit is an Industry-Academia initiative launched by Karpagam College of Engineering. Students from various streams of Engineering develop applications in their respective streams using C Programming as a platform. This exhibit on C Programming aims to enhance the knowledge of KCE students and increase the industrial credibility. Industries share their proven courseware and training methodology with Karpagam College of Engineering which helps to groom the Students as “Industry Ready” Engineers. The involvement of students in developing projects and participating in the exhibition boosts their confidence level and enhancing their placement prospects.

2.7 Total No. of actual teaching days during the academic year

181

2.8 Examination/ Evaluation Reforms initiated by the Institution (for example: Open Book Test, Bar Coding, Double Blind Evaluation, Photocopy, Online Multiple Choice Questions)

Introduction of Dummy Numbers for the Answer Scripts.

The bundle of answer scripts of a particular course is opened in the presence of the Controller of Examinations (CoE) and shuffled. These are then arranged in small lots of twenty scripts each. The dummy numbers as per the guidelines is stamped on each script at two places; on the counterfoil and in the index page of the script. The counter foil is then collected and preserved confidentially. The scripts in batches of twenty are kept in a sealed cover for evaluation. The dummy number and corresponding marks after evaluation are entered in the customised software to generate the mark sheet.

Scrutiny of question papers of the End Semester Examinations. (ESE)

The End Semester Examination (ESE) question papers are scrutinised for correctness of language, quality/ standard and adequacy of the syllabus coverage. Experts for

each course is identified and invited by the COE to carry out the scrutiny of these in his presence. Any deviation is analysed and corrections made based on necessity.

2.9 No. of faculty members involved in curriculum restructuring/revision/syllabus development as member of Board of Study/Faculty/Curriculum Development workshop

University Representatives	12
Industry experts	24
Academic experts - (external member)	24
Academic experts - (internal member)	91
Alumnus	11

2.10 Average percentage of attendance of students 85%

2.11 Programme wise distribution of pass percentage:

Title of the Programme	Total no. of students appeared	Division			
		Distinction	I Class	II Class	Pass %
ME (VLSI)	3	1	2	-	100
ME (Mechatronics)	3	1	2	-	100
MBA	67	7	31	27	97.01
MCA	21	-	21	-	100
BE(CSE)	104	29	59	3	87.5
BE(EEE)	183	19	146	9	95.08
BE(ECE)	164	46	104	5	94.51
BE(MECH)	198	19	158	7	92.92
BTECH(IT)	91	22	61	2	93.4
BE(CIVIL)	97	18	59	5	84.53
BE(EIE)	62	16	41	4	98.38
BE(AUTO)	63	2	56	4	98.41
BE(ETE)	42	7	34	1	100

2.12 How does IQAC Contribute/Monitor/Evaluate the Teaching and Learning processes:

The Internal Academic Audit (IAA) is functional since June 2014 in the Institution. The team has a team head and experts drawn from in-house academic disciplines as the auditors. The IAA is a continuous exercise undertaken to monitor the academic process and thereby improve the quality of teaching – learning process in the Institution. The team audits two vital records which reflect the quality of teaching - learning and evaluation process namely Course file and Attendance and Assessment register (AAR) maintained by each faculty for each of the course handled during a semester.

Fig. Flow diagram of Internal Academic Audit Process

- Record maintenance
- Attendance and assessment register
- Syllabus coverage and question paper setting
- Answer keys

- e) Evaluation of answer scripts (Sample Audit)
- f) Result analysis
- g) Besides the End Semester question paper and feedback forms both on End Semester question paper and the course handled by the faculty member.

(a) Record maintenance:

- Verified whether the records are filed as per the index in the course file
- The syllabus copy filed must be a true copy from the relevant regulations
- Question bank is necessary, if previous End semester question papers are not available and for the newly introduced course(s)
- The papers / documents filed in the course file must be approved by the concerned HoD/Dean
- The hours planned are in accordance with the credit weightage of each course etc., viz LTPC criterion.

(b) Attendance and Assessment Register (AAR):

- AAR will be checked for continuous updating of data such as Attendance and progress of the course
- Check for any deviation in the progress of course work
- See data consistency among attendance, progress of course work and fortnight reports filed
- CIA marks with ERP result compared for correctness
- Neatness of entries and record maintenance

(c) Syllabus coverage and question paper setting:

- Ensure coverage of syllabus prescribed for each CIA test
- Pattern of Questions asked must follow the guidelines issued and of uniform Spread and depth

(d) Answer keys:

- Complete answer key for all the questions in a CIA test (without choice)
- Provide split up of marks for long answers, stage wise
- The sketch / diagram should be drawn neatly with proper labelling

(e) Evaluation of answer - scripts:

- Evaluation is verified by drawing sample answer booklets for each of the courses
- The sample booklets shall include below average/ average/ above average

percentage of marks

- Ensure fair valuation of the answer scripts without bias and broadly conforming with the answer key prepared

(f) Observation of delivery of courses (in the class):

- A recent exercise initiated is to assess the adequacy and follow-up of pedagogical practice.

2.13 Initiatives undertaken towards faculty development

Faculty / Staff Development Programmes	Number of faculty benefited
Refresher courses	2
UGC – Faculty Improvement Programme	-
HRD programmes	-
Orientation programmes	1
Faculty exchange programme	-
Staff training conducted by the university (FDP)	2
Staff training conducted by other Institutions	82
Non-teaching staff training programme	-
Others - Summer / Winter schools, Workshops, etc.	26

- Seven days FDTP on ME6503 Design of Machine Elements on 8th to 14th May 2017 conducted by the Department of Mechanical Engineering approved by Anna University.
- Seven days FDTP on EE6601 Solid State Drives on 9th to 17th May 2017 conducted by the Department of Electrical and Electronics Engineering approved by Anna University.

2.14 Details of Administrative and Technical staff

Category	Number of Permanent Employees	Number of permanent positions filled during the Year	Number of positions filled temporarily
Administrative Staff	63	19	19
Technical Staff	53	8	8

Criterion – III

3. Research, Consultancy and Extension

3.1 Initiatives of the IQAC in Sensitizing/Promoting Research Climate in the Institution

Research is given prime importance in the Institution. The Institution has formed a Research Committee during the academic year 2015-16. Research work forms the basis of creativity and innovation and is regarded as critical for development of Technology. Research also makes teaching and learning effective and relating with time. The College attempts for promotion of research climate, undertake cutting edge research, give due recognition and priority to research, motivate faculty members and higher order thinking students to opt for research, explore the possibility of getting aid/consultancy by institute industry research collaboration, disseminate and transfer the research findings from laboratory to the field through extension; apply for patent and commercialize the patented products and continue with further improvements. The Principal is the chairperson and eleven Senior Professors are the members of the Research Committee. A policy document on “Research Policies, Guidelines and Data” is prepared to guide the scholars on the rules, regulation, processes which are in consonance with that of the affiliating university.

Patents applied and registered:

S. No	Name	Patent Title	Patent No (or) Application No
1	Deepa S	Hybrid Gripper Unit for a Bore well Rescue Machine	Patent Awarded- Indian Patent
2	Dr.Arvind.C	Remote Sliding Gate Opening And Closing System Using a Wireless Module	IPR 201641019635
3	Arunkumar R	Self Assessment Fuel Meter (SAF-Meter)	IPR201641034421
4	Dr.Nagaraj.B, Arunkumar R Mithya V	Audience Behavioural Rating	IPR201641034413
5	Dr.Arvind.C	An energy efficient multichannel Temperature monitoring and Controlling PCB for foundry Automation	IPR 201641028076
6	Dr.Arvind.C	Smart hose Inventor and puller (SHIP) for bore well	IPR 201641030312
7	Dr.S.Deepa Shri (HoD/Civil) N.Mohanraj (AP/Civil) and 4 Students, Dept of Civil Engineering	Fibre Brick Using Mushroom	IPR 201741000042

3.2 Details of major projects undertaken

	Completed	Ongoing	Sanctioned	Submitted
Number	-	-	1	4
Outlay in Rs. Lakhs	-	-	15.95	30.37

3.3 Details regarding minor projects

	Completed	Ongoing	Sanctioned	Submitted
Number	-	-	8	5
Outlay in Rs. Lakhs	-	-	2.73	7.33

3.4 Details on research publications

	International	National	Others
Peer Reviewed Journals	230	8	-
Non-Peer Reviewed Journals	-	-	-
e-Journals	-	-	-
Conference proceedings	255	21	-

S. No	Name & Designation	Topic / Title	Name Of The Journal	Whether National / International	Citation
Department of Automobile Engineering					
1	Dr.J.Ganesh Murali HoD/ Automobile	Experimental and Investigation of A6061/Sicp/B4c by using TIG Welding Process	International Journal of Advanced Engineering Technology	International Journal	-
		Enhancement of Aluminium 2024 properties by reinforcing with Alumina and Graphite			-
		An overview of Friction Stir Welding in Copper Base materials			-
		Experimental Investigation of Radiating Pin Fin with Cylindrical and Conical Cavities	International Journal of heat transfer research		-
		Analysis of Centrifugal Pump with Closed Type Impeller for Slurry Operations	International Journal of Innovative Research Engineering and		-
		Review of Hybrid Composite Materials and its Applications			-

S. No	Name & Designation	Topic / Title	Name Of The Journal	Whether National / International	Citation
		Analysis of Supply Chain Model for Optimum Question Paper Delivery System using Genetic Algorithm with Simulated Annealing,	Technology		-
Department of Mechanical Engineering					
1	Dr.P.Suresh, Professor and Dean/Mech	Optimization of Supply Chain Distribution Network using K-Means Cluster based Generic Algorithm	GD Goenka Business Review	National	Nil
		Drilling Studies on the Prepared Aluminium Metal Matrix Composite from Wet Grinder Stone Dust Particles	Science and Engineering of Composite Materials	International	-
		Wear Behaviour of Aluminium Metal Matrix Composite Prepared from Industrial Waste	The Scientific World Journal		-
		Strategy Development by SMEs While Practicing Supply Chain with respect to South Indian Textile Sectors	International Journal of Management Research and Review		-
		Piloting Indication for Flight Directions at Turbulent Atmospheric Airflow using LABVIEW	International Journal of Advanced Engineering Technology		-
		Studies on Dry Sliding Wear Behaviour of Aluminium Metal Matrix Composite Prepared from Discarded Waste Particles			1
		Effect of Cu/Zn on Material Removal Rate on Grey Cast Iron	Journal of Advances in Chemistry		-
		Analysis of Centrifugal Pump with Closed Type Impeller for Slurry Operations	International Journal of Innovative Research in Science, Engineering and Technology		-
		Application of RFID Technique in Supply Chain Management			-
		Demosaiicing and Sharpening of Colour Filter Captured Images using Adaptive Transformation			-
		Review of Various Image Processing Techniques			-
		Microstructure Analysis of Cast Iron using Mathematical Morphology			-

S. No	Name & Designation	Topic / Title	Name Of The Journal	Whether National / International	Citation
		Analysis of Supply Chain Model for Optimum Question Paper Delivery System using Genetic Algorithm with Simulated Annealing			-
		Image Processing and Segmentation of Human Eye for Prediction of Iris			-
		Experimental Analysis of Human Functional Spinal Unit using AUTOCAD			-
		Analysis of Human Neck Image using Pro/E and MATLAB			-
		Investigations and Analysis of Performance Characteristics of IC Engines			-
		Speckle Noise Removal in MRI Scan Image using WB – Filter			-
		Edge Detection of MRI Scan Neck Image using Canny Edge Detection Algorithm based On Density of Edge Length			-
		Review on Hybrid Composite Materials and its Applications	International Research Journal of Engineering and Technology		-
2	Dr.M. Subburaj HoD/Mech	A Study on Fatigue Failure Analysis of an Automotive Heavy Vehicle Chassis for Stress and Durability using Finite Element Analysis	International Journal of Printing, Packaging and Allied Sciences	International	-
3	Dr.C.Krishnaraj Professor/Mech	Application of Artificial Neural Network Modeling to Predict Automotive Adaptive Cooling System	Advances in Natural and Applied Sciences	International	-
		Lingo Based Revenue Maximization using Aggregate Planning	ARNP Journal of Engineering and Applied Sciences		-
		An experimental study on the durability characteristics of pervious concrete	ARNP Journal of Engineering and Applied Sciences		-
		Enhancing the Passenger's Safety by Automatic Door Locking System and Self Locking of Starter Motor	International Journal of Innovative Research in Science, Engineering and Technology		-

S. No	Name & Designation	Topic / Title	Name Of The Journal	Whether National / International	Citation
		Characterisation of Silicon Carbide and Fly Ash in LM13 Aluminium Alloy Matrix Composites	International Journal of Vehicle Structures and Systems		-
		Optimization of P Median Problem in Python using Pulp Package	International Journal of Control Theory and Applications		-
		Optimization of Fixed Charge Problem in Python using Pulp Package			-
4	Dr. N V Dhandapani Professor/Mech	Optimization of Cutting Parameters on High-Speed CNC Milling of Alloy Steel EN24, using Box-Behnken based Response Surface Methodology	Journal of Balkan Tribological Association	International	-
		A Study on Fatigue Failure Analysis of an Automotive Heavy Vehicle Chassis for Stress and Durability using Finite Element Analysis	International Journal of Printing, Packaging and Allied Sciences		-
5	R.Masilamani AP/Mech	Prediction of Fatigue Life Cycle on Steering Knuckle Ball Joint	International Journal of Innovative Research in Science, Engineering and Technology	International Journal	-
		Enhancing the Passenger's Safety by Automatic Door Locking System and Self Locking of Starter Motor			-
		Design and Analysis of High Density Polyethylene Fuel Tank for Heavy Vehicle			-
		Application of Artificial Neural Network Modeling to Predict Automotive Adaptive Cooling System	Advances in Natural and Applied Science		-
6	Dr. L. Francis Xavier , AP/Mech	Drilling studies on the prepared Aluminium Metal Matrix Composite from Wet Grinder Stone Dust Particles	Science and Engineering of Composite Materials	International	-
		Wear behaviour of Aluminium Metal Matrix Composite prepared from Industrial Waste	The Scientific World Journal		-
		Studies on Dry Sliding Wear behaviour of aluminium Metal Matrix Composite prepared from Discarded Waste Particles	International Journal of Advanced Engineering Technology		1
		The influence of Drilling Cycle on the Surface Roughness of the Drilled Holes	ARNP Journal of Engineering and Applied Sciences		-

S. No	Name & Designation	Topic / Title	Name Of The Journal	Whether National / International	Citation
7	V.V.Arun Sankar AP/Mech	Review on Hybrid Composite Materials and its Applications	International Research Journal of Engineering and Technology	International	-
		Analysis of Centrifugal Pump with Closed Type Impeller for Slurry Operations	International Journal of Innovative Research in Science, Engineering and Technology		-
		Application of RFID Technique in Supply Chain Management			-
		Demosaicing and Sharpening of Colour Filter Captured Images using Adaptive Transformation			-
		Review of Various Image Processing Techniques			-
		Microstructure Analysis of Cast Iron using Mathematical Morphology			-
		Analysis of Supply Chain Model for Optimum Question Paper Delivery System using Genetic Algorithm with Simulated Annealing			-
		Image Processing and Segmentation of Human Eye for Prediction of Iris			-
		Analysis of Human Neck Image Using Pro/E and MATLAB			-
		Investigations and Analysis of Performance Characteristics of IC Engines			-
		Edge Detection of MRI Scan Neck Image Using Canny Edge Detection Algorithm based on Density of Edge Length			-
8	N.Subramani AP/Mech	Experimental and Investigation of A6061/SiCp/B4c By Using TIG Welding Process	International Journal of Advanced Engineering Technology	International	-
		Review on Hybrid Composite Materials and its Applications	International Journal of Innovative Research in Science, Engineering and		-
		Analysis of Centrifugal Pump with Closed Type Impeller for Slurry Operations			-
		Application of RFID Technique in Supply Chain Management			-

S. No	Name & Designation	Topic / Title	Name Of The Journal	Whether National / International	Citation
		Demosaicing and Sharpening of Colour Filter Captured Images using Adaptive Transformation	Technology		-
		Review of Various Image Processing Techniques			-
		Microstructure Analysis of Cast Iron using Mathematical Morphology			-
		Analysis of Supply Chain Model for Optimum Question Paper Delivery System Using Genetic Algorithm with Simulated Annealing			-
		Image Processing and Segmentation of Human Eye for Prediction of Iris			-
		Experimental Analysis of Human Functional Spinal Unit using AUTOCAD			-
		Analysis of Human Neck Image using Pro/E and MATLAB			-
		Investigations and Analysis of Performance Characteristics of IC Engines			-
		Speckle Noise Removal in MRI Scan Image using White Balance Filter			-
		Edge Detection of MRI Scan Neck Image using Canny Edge Detection Algorithm based on Density of Edge Length			-
9	S.Rameshkumar AP/Mech	Experimental Analysis of Human Functional Spinal Unit using AUTOCAD	International Journal of Innovative Research in Science, Engineering and Technology	International	-
		Speckle Noise Removal in MRI Scan Image Using White Balance Filter			-
10	K.Ramesh AP/Mech	Application of Artificial Neural Network Modeling to Predict Automotive Adaptive Cooling System	Advances in Natural and Applied Science	International	-
		Analysis of Radiator Coolant Mixture using Ethylene Glycol and Di-Ethylene Glycol	International Journal of Innovative Research in Science, Engineering and Technology	International Journal	-
		Performance Improvement of Pollution Control Device used in Small Scale Foundry			20

S. No	Name & Designation	Topic / Title	Name Of The Journal	Whether National / International	Citation
11	R.Haridass AP/Mech	Analysis of Radiator Coolant Mixture using Ethylene Glycol and Di-Ethylene Glycol	International Journal of Innovative Research in Science, Engineering and Technology	International Journal	-
		Analysis of Five Stroke Internal Combustion Engine -a review			-
		Parametric analysis of 49 cm ² serpentine flow channel of Polymer Electrolyte Membrane Fuel Cell (PEMFC) for Performance Enhancement			-
		Performance improvement of Pollution Control Device used in Small Scale Foundry			20
12	T.Rajeshkumar AP/Mech	Analysis of Radiator Coolant Mixture using Ethylene Glycol and Di-Ethylene Glycol	International Journal of Innovative Research in Science, Engineering and Technology	International Journal	-
		Analysis of Five Stroke Internal Combustion Engine -a review			-
		Parametric analysis of 49 cm ² serpentine flow channel of Polymer Electrolyte Membrane Fuel Cell (PEMFC) for Performance Enhancement			-
		Performance improvement of Pollution Control Device used in Small Scale Foundry			20
13	J.Anish Jafrin Thilak, AP/Mech	Optimization of Supply Chain Distribution Network Using K-Means Cluster based Generic Algorithm	GD Goenka Business Review	National	Nil
		Analysis of Centrifugal Pump with Closed Type Impeller for Slurry Operations	International Journal of Innovative Research in Science, Engineering and Technology	International	-
		Application of RFID Technique in Supply Chain Management			-
		Demosaijing and Sharpening of Colour Filter Captured Images using Adaptive Transformation			-
		Review of Various Image Processing Techniques			-
		Microstructure Analysis of Cast Iron using Mathematical Morphology			-
		Analysis of Supply Chain Model for Optimum Question Paper Delivery System using Genetic			-

S. No	Name & Designation	Topic / Title	Name Of The Journal	Whether National / International	Citation
		Algorithm with Simulated Annealing			
		Image Processing and Segmentation of Human Eye for Prediction of Iris			-
		Experimental Analysis of Human Functional Spinal Unit using AUTOCAD			-
		Analysis of Human Neck Image using Pro/E and MATLAB			-
		Investigations and Analysis of Performance Characteristics of IC Engines			-
		Speckle Noise Removal in MRI Scan Image Using Wb – Filter			-
		Edge Detection of MRI Scan Neck Image using Canny Edge Detection Algorithm based on Density of Edge Length			-
		Analysis of Radiator Coolant Mixture using Ethylene Glycol and Di-Ethylene Glycol			-
		Piloting Indication for Flight Directions at Turbulent Atmospheric Airflow using LABVIEW	International Journal of Advanced Engineering Technology		-
14	E.Vignesh AP/Mech	Analysis of Radiator Coolant Mixture using Ethylene Glycol and Di-Ethylene Glycol	International Journal of Innovative Research in Science, Engineering and Technology	International	-
		Analysis of Five Stroke Internal Combustion Engine -a review			-
		Parametric analysis of 49 cm ² serpentine flow channel of Polymer Electrolyte Membrane Fuel Cell (PEMFC) for Performance Enhancement			-
		Performance Improvement of Pollution Control Device used in Small Scale Foundry			20
		Optimization of Supply Chain Distribution Network Using K-Means Cluster based Generic Algorithm	GD Goenka Business Review	National	-

S. No	Name & Designation	Topic / Title	Name Of The Journal	Whether National / International	Citation
15	S.Sathishkumar AP/Mech	Application of RFID Technique in Supply Chain Management	International Journal of Innovative Research in Science, Engineering and Technology	International	-
		Demosaicing and Sharpening of Colour Filter Captured Images using Adaptive Transformation			-
		Review of Various Image Processing Techniques			-
		Microstructure Analysis of Cast Iron using Mathematical Morphology			-
		Image Processing and Segmentation of Human Eye for Prediction of Iris			-
		Experimental Analysis of Human Functional Spinal Unit using AUTOCAD			-
		Analysis of Human Neck Image using Pro/E and MATLAB			-
		Investigations and Analysis of Performance Characteristics of IC Engines			-
		Speckle Noise Removal in MRI Scan Image Using Wb – Filter			-
		Edge Detection Of MRI Scan Neck Image Using Canny Edge Detection Algorithm Based On Density Of Edge Length			-
Department of Computer Science Engineering					
1	Dr.S.Angel Latha Mary, Prof/CSE	A Fast and Efficient Incremental Clustering Algorithm for Dynamic Data Clustering	Transylvanian Review: Vol XXIV, No. 8, Special Issue, 2016	International	-
2	Dr.M. Prakash, Professor/ CSE	Prevention of Heavy Vehicular Accidents using Raspberry PI	Asian Journal of Research in Social Sciences and Humanities Vol. 6, No. 8, August 2016, pp. 417-426. DOI: 10.5958/2249-7315.2016.00622.5	National	-
		An Analysis for Classification of Soil Data in Data Mining using R	International Journal of Control Theory and Applications	International	-

S. No	Name & Designation	Topic / Title	Name Of The Journal	Whether National / International	Citation
		An Authentication Technique for Accessing De-Duplicated Data from Private Cloud using One Time Password	International Journal of Information Security and Privacy (IJISP) 11(2), pp 1-10, DOI:10.4018/IJISP.2017040101		-
		Effective Scheduling Approach for Dynamic Grid Resource Allocation	Book Chapters, Advanced Engineering Research and Applications, Research India Publishers, ISBN: 978-93-84443-42-9	National	-
3	A.Nagajothi, AP/CSE	Performance of Ontology classification for Self-Assessment in Educational Data Mining	International Journal of Engineering Research and Generic Science (IJERGS), 2455 – 1597 (2016): 29 – 37.	International	-
		A Review: Big Data and Analytics in Health Care	(IJERGS), 2455 – 1597 (2016): 46 – 55		-
		An Optimized Support Vector Machine for Classifying Opinions in M Learning Systems Applied To Biotechnology Domain	Research Journal of Biotechnology, Special Issue, Jan 2017, P.No 168-176		-
		Comparative Performance of SVM with RBF Kernel Classifier in Predicting Heart Disease For Diagnosed Type 2 Diabetic Patients	International Journal of Scientific Research and Engineering Studies (IJSRES) Volume 3 Issue 11, November 2016, ISSN: 2349-8862, P.No:28-32.		-
4	Dr.M.Rajesh Babu, Prof/CSE	Certain Investigations on various algorithms used to classify Malware and Good Ware applications	ICTACT journal on soft computing, Vol.7, No.1, October, pp: 1344-1349, 2016.	International	-

S. No	Name & Designation	Topic / Title	Name Of The Journal	Whether National / International	Citation
		Dynamic anomaly detection using cross layer security in MANET	Computers and Electrical Engineering, ISSN: 0045-7906		-
5	Dr.S.Saravana Kumar, Prof/CSE	Gallant Use of Cloud by A Novel Framework of Encrypted Biometric Authentication and Multi Level Data Protection	International Journal of Science and Technology, vol9(44), DOI : 10.17485/ijist/2016/v9i44/102668	International	-
		Enlarge storing concept in an efficient handoff allocation during travel by time based algorithm	International Journal of Science and Technology, vol9(40), DOI : 10.17485/ijist/2016/v9i40/89388		-
		Dynamic anomaly detection using cross layer security in MANET	Computers and Electrical Engineering, ISSN: 0045-7906		-
6	S. Karthika, AP/CSE	SATEM based Policy Enforcement in MANET	Imperial Journal of Interdisciplinary Research (IJIR) Vol-3, Issue-1, 2017, ISSN: 2454-1362. Page 1034 - 1039	International	-
		An Analysis for Classification of Soil Data in Data Mining using R	International Journal of Control Theory and Applications		-
7	S. Ramamani, AP/CSE	An Analysis for Classification of Soil Data in Data Mining using R	International Journal of Control Theory and Applications	International	-
8	G.Suganya, AP/CSE	Review on K-Means and Fuzzy C Means Clustering Algorithm	Imperial Journal of Interdisciplinary Research (IJIR), Vol.3,Issue2, 2017, ISSN:2454-1362	International	-
9	J.Kiruba, AP/CSE	Review on K-Means and Fuzzy C Means Clustering Algorithm	Imperial Journal of Interdisciplinary Research (IJIR), Vol.3,Issue2, 2017, ISSN: 2454-1362	International	-

S. No	Name & Designation	Topic / Title	Name Of The Journal	Whether National / International	Citation
10	E.Ramakalaivani, AP/CSE	Review on K-Means and Fuzzy C Means Clustering Algorithm	Imperial Journal of Interdisciplinary Research (IJIR), Vol.3,Issue2, 2017, ISSN: 2454-1362	International	-
Department on Information Technology					
1	Dr. Akey Sungheetha, ASP/IT	Extreme Learning Machine and Fuzzy K-Nearest Neighbour based Hybrid Gene Selection Technique for Cancer Classification	Medical Imaging and Health Informatics	International	-
		Comparative Study of Distinctive Image Classification Techniques	IEEE Explore ISCO'16		-
		Hierarchical Clustering to Determine Missing Values of Yeast Gene	Middle-East Journal of Scientific Research, Volume 24, Issue (7), pp. 2239-2246, 2016.		-
		A Design Framework to Detect Corrupted Files Using Frame Based Technique	Karpagam Journal of Engineering Research (KJER) Vol: 5, 2,		-
		Comparative Study on Medical Image Classification Techniques	International Journal of Advanced Engineering, Management and Science (IJAEMS)		-
		Offline Remote Path Board Structure based on GPS/ Wi-Fi Location Access	International Journal of Control Theory and Applications		-
		Effective Disaster Management by Efficient usage of Resources	International Journal of Advanced Engineering, Management and Science (IJAEMS), Vol-2, Issue-12, Dec- 2016.		-
		The road map for Big Data in various applications with Apache Hadoop and Apache Spark.	International Journal of printing, packaging and allied sciences, vol.4, pp. 2497-2505		-
		Segmentation and classification techniques of Medical Images using Innovated Hybridized Techniques — a study	IEEE Explore ISCO'17		-

S. No	Name & Designation	Topic / Title	Name Of The Journal	Whether National / International	Citation
		Improved Brain Tumour classification using Enhanced GSO Based Radial Basis Function Neural Network Classifier	International Journal of printing, packaging and allied sciences, Vol: 4, no: 5, 2017		-
2	P.Sherubha, AP/IT	A Detailed Survey on Security attacks on Wireless Sensor Network and its countermeasures.	International Journal of Soft Computing	International	-
		Offline Remote Path Board Structure based on GPS/Wi-Fi Location Access	International Journal of Control Theory and Applications		-
		Transformative approach using Multiple Kernels SVM – Map Reduce for Sentiment Analysis based Text Mining in Big Data	International Journal of Trend in Research and development		-
3	Dr.K.Mahalakshmi Prof /IT	Unsupervised Learning Technique using Hybrid Optimization for Non-Functional Requirements Classification.	Asian Journal of Information Technology	International	-
		Enhanced Software Engineering Process Model for Green Environment	International Journal of Advanced Engineering Technology		
		Machine Learning Cross Layer Technique to Detect Sink Hole Attacks in MANET	Networking and Communication Engineering		
		Design of Video Code and Methodology Corrupted Video Files using Frame Based Recovery	International Journal of Latest Trends in Engineering and Technology		
		A Design Framework to Detect Corrupted Files Using Frame Based Technique	Karpagam Journal of Engineering Research (KJER) Vol: 5, 2,		-
		Performance of Ontology classification for Self-Assessment in Educational Data Mining	International Journal of Engineering Research and Generic Science (IJERGS)		-
		A Review: Big Data and Analytics in Health Care			-
		Comparative Performance of SVM with RBF Kernel Classifier in Predicting Heart Disease for Diagnosed Type 2 Diabetic Patients			-

S. No	Name & Designation	Topic / Title	Name Of The Journal	Whether National / International	Citation
		An Optimized Support Vector Machine for classifying opinions in M Learning Systems applied to Biotechnology Domain	Research Journal of Biotechnology		-
		Transformative approach using Multiple Kernels SVM – Map Reduce for Sentiment Analysis based Text Mining in Big Data	International Journal of Trend in Research and development		-
		Offline Remote Path Board Structure based on GPS/WiFi Location Access	International Journal of Control Theory and Applications		-
		An optimized support vector machine for classifying opinions in m learning systems applied to biotechnology domain	Research Journal of Biotechnology NO.17, 2017, pp.168-176		Thomson Reuters /science citation indexed
		Enhanced Software Engineering Process Model For Green Environment	International Journal of Advanced Engineering Technology, 7 (2), 2016, pp.1077-1079		-
4	Dr.Karthikeyan N.K, Prof/IT	Bridging the Semantic Gap in Web Services Discovery through Support Vector Machines and Feedback Mechanism	Middle-East Journal of Scientific Research 24 (7): 2239-2246, 2016. ISSN 1990-9233	International	-
		Optimized LEHE: A Modified Data Gathering Model for Wireless Sensor Network”	IIOAB Journal, Vol. 7 /9 / pp 411-418.		-
		Optimized LEHE: A modified data Gathering Model for Wireless Sensor Network	Emerging Technologies in Networking and Security (ETNS)		-
		Independent task scheduling using Self Organizing Migrating Algorithm on Cloud Environment	IJCTA, Volume 6 Issue 3. March 2017		-
5	K.Narmatha AP/IT	Hierarchical Clustering to Determine Missing Values of Yeast Gene	Middle-East Journal of Scientific Research, Volume 24, Issue (7), pp. 2239-2246, 2016.	International	-
		Transformative approach using Multiple Kernels SVM – Map Reduce for Sentiment Analysis based Text Mining in Big Data	International Journal of Trend in Research and development		-

S. No	Name & Designation	Topic / Title	Name Of The Journal	Whether National / International	Citation
		Offline Remote Path Board Structure based on GPS/Wi-Fi Location Access	International Journal of Control Theory and Applications		-
		Robust performance based resource provisioning	International Journal of Computer science, Volume 6 Issue 3.March 2017		-
		Providing Biometrics Security for Load Balanced Cloud Data Storage	Middle-East Journal of Scientific Research, DOI: 10.5829/idosi.mejsr.2016.24.03.23190		-
		Multi Pattern Retrieval Using MTPS Algorithm	International Journal of Trend in Research and Development, Special Issue, ISSN: 2394-9333, PP-109-112		-
6	P.D.Mahendran AP/IT	Hierarchical Clustering to Determine Missing Values of Yeast Gene	Middle-East Journal of Scientific Research, Volume 24, Issue (7), pp. 2239-2246, 2016.	International	-
		Certain Investigation on Significance of Internet of Things (IoT) and Big Data in Vehicle Tracking System	Indian Journal of Science and Technology		
		Survey on Big Data Analytics and its Applications	International Journal of Computer Applications, Volume 153 – No 12, November 2016		-
7	C.Vijesh Joe AP/IT	Hierarchical Clustering to Determine Missing Values of Yeast Gene	Middle-East Journal of Scientific Research, Volume 24, Issue (7), pp. 2239-2246, 2016	International	-
		Multi Pattern Retrieval Using MTPS Algorithm	International Journal of Trend in Research and Development, ISSN: 2394-9333, PP-109-112		-

S. No	Name & Designation	Topic / Title	Name Of The Journal	Whether National / International	Citation
		Optimal Feature for emotion recognition from speech	African Journal of Basic and applied Science, DOI: 10.5829/idosi.ajbas.2016.8.3.22803		-
		Providing Biometrics Security for Load Balanced Cloud Data Storage	Middle-East Journal of Scientific Research, DOI: 10.5829/idosi.mejsr.2016.24.03.23190		-
8	R.Keerthika AP/IT	A Review: Big Data and Analytics in Health Care	International Journal of Engineering Research and Generic Science (IJERGS)	International	-
		An optimized support vector machine for classifying opinions in m learning systems applied to biotechnology domain	Research Journal of Biotechnology		-
		Cluster based DDOS detection method in data mining	International Journal of Engineering and Computer science, Volume 6 Issue 3 March 2017, Page No. 20446-20451		-
9	M.Banuchitra, AP/IT	Transformative approach using multiple kernels SVM – Map Reduce for Sentiment Analysis based Text Mining in Big Data	International Journal of Trend in Research and development	International	-
10	N.Vaitheeka, AP/IT	The road map for big data in various applications with apache hadoop and apache spark.	International journal of printing, packaging and allied sciences, vol.4, pp. 2497-2505	International	-
11	S.Gopikrishnan, AP/IT	HSDA: Hybrid Communication for Secure Data Aggregation in Wireless Sensor Network	Wireless Networks 10.1007/s11276-015-1121-x	International	Thomson Reuters /science citation indexed
		HCDA: Hybrid Collision aware Data Aggregation in Wireless Sensor Networks	International Journal of Networking and Virtual Organizations, Vol.22,no.3, pp.1061-1078		-

S. No	Name & Designation	Topic / Title	Name Of The Journal	Whether National / International	Citation
		A Synopsis of Energy Optimized Hybrid Data Aggregation Algorithm for WSN	International Journal of Control Theory and Applications, Volume 10, Number 1, pp. 47-55 , 2017		-
		Certain Investigations on Data Aggregation issues in Wireless Sensor Networks	World Applied Sciences Journal, vol. 34, no. 2, pp. 256-267, 2016		-
12	S.Manikandan, AP/IT	Unsupervised Learning Technique Using Hybrid Optimization for Non-Functional Requirements Classification.	Asian Journal of Information Technology, 15(9) 2016, 1457-1467	International	-
13	P.Priakanth, AP/IT	Certain Investigations on Data Aggregation issues in Wireless Sensor Networks	World Applied Sciences Journal, vol. 34, no. 2, pp. 256-267, 2016	International	-
14	B.P.Sreeja AP/IT	E-Shopping Community Structure Analysis using Data Clustering	International Journal of Computer science, Volume 6 Issue 3 March 2017, Page No. 20441-20445	International	-
		Robust Performance Based Resource Provisioning	International Journal of Computer Science, Volume 6 Issue 3 March 2017	International	-
15	G.Saratha Devi, AP/IT	E-Shopping Community Structure Analysis Using Data Clustering	International Journal of Computer Science, Volume 6 Issue 3 March 2017, Page No. 20441-20445	International	-
		Robust Performance Based Resource Provisioning	International Journal of Computer science, Volume 6 Issue 3		-
16	R.Indupoornima, AP/IT	The Road Map for Big Data in various application with Apache Hadoop and Apache Spark	International Journal of printing, packaging and allied sciences, Vol.4,no.4, pp.2497-2505	International	-

S. No	Name & Designation	Topic / Title	Name Of The Journal	Whether National / International	Citation
17	R Arun, AP/IT	Comparative Performance Of SVM With RBF Kernel Classifier In Predicting Heart Disease For Diagnosed Type 2 Diabetic Patients	International Journal of Scientific Research and Engineering Studies (IJSRES), Vol-3, no.11,2016, 28-32	International	-
Department of Electrical and Electronics Engineering					
1	Dr.Nithiyananthan. K, Prof/EEE	Cluster Analysis Based Fault Identification Data Mining Models for 3 Phase Power Systems	International Journal of Innovation and Scientific Research	International	-
		Virtual State Estimation calculator model for Three Phase Power System Network	Journal of Energy and Power Engineering,		-
		Environment Friendly Voltage Up-gradation Model For Urban Electrical Distribution Power Systems	International Journal of Electrical and Computer Engineering, Asia, Vol No 6, No 6. pp 2516 – 2525.		-
		Cosine Similarity Cluster Analysis Model Based Effective Power System Fault Detection and Identification,	International Journal of Advanced and Applied Sciences, Asia, pp 123-129.		-
		Unit Commitment Calculator Model for Three phase Power System Network	International Journal of Power and Renewable Energy Systems, USA, Vol 3, No 2, 2016, PP 37-42.		-
		Virtual Stability Estimator Model for Three Phase Power System Network	Indonesian Journal of Electrical Engineering and Computer Science, Vol 4, No 3, 2016, PP 520-525.		-
2	P.Santhosh, AP/EEE	Performance Study of BLDC Motor used in Wireless Medical Applications	Wireless Personal Communications	International	-
3	M.Shobana, AP/EEE	Pixel Value Differencing Method based on CMYK Colour Model	International Journal of Electronics and Information Engineering	International	-

S. No	Name & Designation	Topic / Title	Name Of The Journal	Whether National / International	Citation
Department of Electronics and Instrumentation Engineering					
1	Dr.S.Manoharan, Prof and Head	Grid Interconnection Of Hybrid Power System With Power Quality Improvement Features	International Journal of Advanced Engineering Technology	International	-
		Design and Implementation of Internal Model Control and Particle Swarm Optimization Based PID for Heat Exchanger System	International Journal of Heat and Technology		5
		Fault Tolerant Control with Reconfiguration Mechanism for a CSTR	Asian Journal of Research in Social Sciences and Humanities		-
		An Improved Switching Topology for Single Phase Multilevel Inverter with Capacitor Voltage Balancing Technique	Journal of Power Electronics		-
		Design of Dual-Bridge High Frequency Resonant DC/DC Converter for Storage Application	International Journal of Control Theory and Applications		-
		Analysis on Power Quality Issues of VSI with an Improved Modulation Strategy			-
		Grid Integration of Renewable Energy Sources with Power Quality Improvement Features using Multilevel Inverters			1
		A Novel PV based Statcom for Augmenting Real Power and Reactive Power for a Grid Connected Load			-
2	E.Arunkumar, AP/EIE	Design and Implementation of Internal Model Control and Particle Swarm Optimization Based PID for Heat Exchanger System	International Journal of Heat and Technology	International	-
3	J.Indira Priyadharshini, AP/EIE	Smart Home Automation System Using Arduino	International Journal of Engineering Sciences and Research Technology	International	-
		A Novel Approach to Human Organ Preservation System Using Virtual Instrumentation	International Journal of Earth Sciences and Engineering		-
4	T. Sivaranjani, AP/EIE	Smart Home Automation System Using Arduino	International Journal of Engineering Sciences and Research Technology	International	-

S. No	Name & Designation	Topic / Title	Name Of The Journal	Whether National / International	Citation
		A Novel Approach to Human Organ Preservation System Using Virtual Instrumentation	International Journal of Earth Sciences and Engineering		
-5	S.Tharani, AP/EIE	Design and Implementation of Internal Model Control and Particle Swarm Optimization Based PID for Heat Exchanger System	International Journal of Heat and Technology	International	-
6	N.Gowthaman, AP/EIE	Design and Implementation of Internal Model Control and Particle Swarm Optimization Based PID for Heat Exchanger System	International Journal of Heat and Technology	International	-
7	P.Palpandian, AP/EIE	Pick and Place Robotic Arm using PLC	International Journal of Trend in Research and Development	International	-
8	J.Arulvadiyu, AP/EIE	Design of Adaptive Cruise Control system for an Electric Vehicle using Ultrasonic Sensor	International Journal of Trend in Research and Development	International	-
9	N.Divya, AP/EIE	GSM Based e – Notice Board Using Android Application	International Journal of Trend in Research and Development	International	-
		Industrial Pollution Monitoring System using LABVIEW and IoT			-
Department of Electronics and Telecommunications Engineering					
1	Dr.B.Nagaraj, Prof and Head/ETE	Application of soft computing in wireless personal communication	Wireless Personal Communications	International	-
2	S.Manikandan, AP/ETE	Smart Shopping Facilitator for visually impaired Based on Zigbee	International Journal of Modern Trends in Engineering and Science	International	-
3	C.Arul Murugan, AP/Mech				-
Department of Electronics and Communications Engineering					
1	Dr.P.Karthigai Kumar HoD/ECE	Multi-Retinal disease classification by reduced deep learned features	International Journal of Neural computing and Applications	International	-
		High throughput AES Algorithm using Parallel Sub Bytes and Mixcolumn	International Journal on Wireless Personal Communications		-
		An Efficient Hardware Architecture for High throughput AES Encryptor using MUX based Sub Pipelined S-Box			-
		High Performance Multi-Operand Adder for Medical Images	Auto soft, Intelligent Automation and Soft Computing		-

S. No	Name & Designation	Topic / Title	Name Of The Journal	Whether National / International	Citation
2	Dr. C.Arvind Prof/ECE	Strategies on automated test oracle	Advances in Natural and Applied Sciences	International	-
		Optical Millimeter Wave generation using external modulation			-
3	T.K. Sethuramalingam ASP/ECE	A Proposed System of Ship Trajectory Control Using Particle Swarm Optimization	Procedia Computer Science (ELSEVIER)	International	-
		Design of Arithmetic and Logic Coprocessor based on Logarithmic Number System	IJRITCC	International	-
4	R.Arunkumar AP/ECE	Malleable Fuzzy Local Median C Means Algorithm for Effective Biomedical Image Segmentation	International journal of Neural Computing and Applications	International	-
5	M.Shobana, AP/ECE	Pixel Value differencing method based on CMYK color model	International Journal of Electronics and Information Engineering	International	-
6	V. Mithya AP/ECE	Malleable Fuzzy Local Median C Means Algorithm for Effective Biomedical Image Segmentation	International journal of Neural Computing and Applications	International	-
7	S.Deepa AP/ECE	Security Enhancement in EQ – Leach routing protocol	IJCTA	International	-
Department of MCA					
1	Dr.V.Narayani Director/ MCA	Preprocessing Systemic Lupus Erythematosus (SLE) data set with Pentaho Data Integration (PDI)	International Journal of Recent Innovation in Engineering and Research (IJRIER)	International	-
		Higher Education system using Data Mining Method	International Journal of Advance Research in Science and Engineering (IJARSE)		-
		Applying Data Mining Technique in Education Review			-
		Analysis of student dropout forecasting using data mining			-
2	K. Anuradha ASP/MCA	Effective Way of Diagnosing the Facial Tumours using Segmentation Algorithms	Karpagam Journal of Engineering Research	International	-

S. No	Name & Designation	Topic / Title	Name Of The Journal	Whether National / International	Citation
		Performance Analysis of Dynamic Clustering Algorithm for biological dynamic data	International Journal of Control theory and Applications		-
3	K. Umamaheswari AP/MCA	Performance Analysis of Dynamic Clustering Algorithm for biological dynamic data	International Journal of Control theory and Applications	International	-
		Implementation of Virtual Office in a Cloud Environment	International Journal of Engineering Research and Management		-
		Evaluating Student's Eligibility for Recruitment Process Using Classification	Karpagam Journal of Engineering Research	National	-
4	R. Gokila AP/MCA	Implementation of Virtual Office in a Cloud Environment	International Journal of Engineering Research and Management	International	-

Department of Science and Humanities

1	D.Gowthami AP/S&H	Performance Evaluation of Tilted Wick - Type Solar Still Integrated with Shallow Solar Pond	IJSTE	International	-
2	S.Premalatha AP/S&H	Stability and Synchronization Analysis of Inertial Memristive Neural Network With Time Delays	SPRINGER	International	-
3	Dr.V.Eswaramurthi ASP/S&H	Effect of TiO ₂ /Reduced Graphene Oxide Composite Thin Film as a Blocking Layer on the Efficiency of Dye –Sensitized	Solid state Electrochemistry	International	-
4	Dr. M.R.Ananthan, AP/S&H	Studies on interface between In ₂ O ₃ and CuInTe ₂ Thin Films	Applied Surface Science (ELSEVIER)	International	-
		Growth and characterization of Au Nanoparticles embedded In ₂ O ₃	Thin Solid films (ELSEVIER)		-
5	P.Mary Rajeswari AP/S&H	Speaking Skill and its Highlights	Emerging Revolutionary Advancements in English Language Teaching	National	-
		Characterization in the novels of Kamala Markandaya's the Netar in the Sieve	International Journal of English Language and Literature Skills	International journal	-
6	D. Sarulatha AP/S&H	Cultivating Corporate Skills and Career Management for Young Engineers	International Journal of English Research	International journal	-

S. No	Name & Designation	Topic / Title	Name Of The Journal	Whether National / International	Citation
7	Dr.S.Alarmal Mangai ASP/S&H & M.Vanithamani AP/S&H	Trichodesma Indicum (Linn) R.Br- A Review on its Pharmacological Properties and Traditional uses in Folk Medicine	Journal of Biology and Nature	International journal	-

3.5 Details on Impact factor of publications:

Citations 1580

h-index 16

i10 Index 43

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

Nature of the Project	Duration Year	Name of the funding Agency	Outlay in Lakhs	Received in Lakhs
Major projects	3 years	Vel Tech. Engineering Works, Chennai	15.95	0.5
Minor Projects	2016-17	CSIR	1.25	1.25
		ICMR	1.0	1.0
		ISRO	1.0	0.4
		ISTE	0.05	0.05
Interdisciplinary Projects	-	-	-	-
Industry sponsored	-	-	-	-
Projects sponsored by the University/ College	-	-	-	-
Any other(Specify) <i>Students research projects</i>	-	-	-	-
Total	-	-	19.25	3.20

3.7 No. of books published

i) With ISBN No.

3

Chapters in Edited Books

-

ii) Without ISBN No.

3

Lab Manuals

90

S.No	Name of the Faculty	Title of the Book	Publisher	ISBN NO
1	Dr.S.Deepa Shri, Prof/Civil N.Mohanraj AP/Civil	Construction Materials	Nirali Publication,Pune	
2	S.Nithyanantham, AP/CSE	Knowledge Management, Vol.1, Edition:2016,	ARS Publications, Chennai	ISBN - 978-93-84608-50-7
3	Dr.K.Nithiyananthan, Sr.Prof./EEE	Hybrid Solar Lighting	Lambert Academic Publishing, Europe.	ISBN: 978-3-659- 485462-0.
4	Dr.K.Nithiyananthan, Sr.Prof./EEE	Environment friendly Voltage Up-graded distribution Power Systems	Lambert Academic Publishing, Europe.	ISBN: 978-3-659- 8834-8
5	N.M.Ramya AP/EEE	Swarm, Evolutionary and Memetic Computing	Springer International Publishing Switzerland LNCS 8947, pp. 686-696	
6	Dr.C.Krishnaraj Prof/Mech	Automobile Technology	Nirali Publications, Pune	

3.8 No. of University Departments receiving funds from

UGC-SAP

-

CAS

-

DST-FIST

-

DPE

-

3.9 For Colleges

Autonomy

✓

CPE

-

DBT Star Scheme

-

INSPIRE

-

CE

-

Any Other (specify)

-

3.10 Revenue generated through consultancy

S. No	Name, Designation	Nature Of Job/ Projects	Sponsor Details	Outlay (Rs in Lakhs)	Relevant Period
1	Dr.S.Saravana Kumar, Prof/CSE, Dr.M.Prakash, Prof/CSE	Implementation for Intelligent Machine Vision System for Toll Wear Monitoring.	Vel Tech. Engineering works , Chennai	15.95 (Sanctioned 0.5 as on November 2016)	2016-19
2	Dr. S. Manoharan, E. Govindakumar M.Janaki AP/EIE	Performance analysis of closed loop interacting and non interacting process with the measurement of nonlinearity	Challenger Pumps India Private Limited	1.38	On going
3	J. Indira Priyadharshini T.Sivaranjani V.Soniya AP/EIE	Design of model based controller for Industrial process	MJ Tech solutions Coimbatore	1.42	On going
4	E.Arunkumar P.Palpandian J.Arulvadvu AP/EIE	PLC based automation for manufacturing process	Annapoorani Electricals Coimbatore	1.29	On going
5	N.Divya A.Agalya N.Gowthaman AP/EIE	Investigations on the applications of state estimation in CSTR control	EMERICK Automation India Private Limited Coimbatore	1.42	On going

3.11 No. of conferences organized by the Institution

Level	International	National	State	University	College
Number	7	2	-	-	-
Sponsoring agencies	IEEE/DRDO/ISTE	Management	-	-	-

Conferences organized by the Institution:

- National Conference on Recent Trends in Engineering, Technology and Management **RTETM-2016** organised by the Dept of Mech Engg on 22nd October 2016
- The 3rd International conference on Electrical, Electronics, Instrumentation and Computer communication (**E²IC²**) **2016** organised by the Dept of EIE on 9th and 10th Dec 2016
- IEEE Sponsored International Conference on Engineering and Technology **ICET'16** organised by Karpagam Innovation Centre on 16th and 17th December 2016
- IEEE Sponsored 11th International Conference on Intelligent Systems and Control (**ISCO'17**) – organised by the Dept of ECE on 5th and 6th January 2017
- IEEE Sponsored International Conference on Electronics and Communication Systems (**ICECS '17**) Organized by Department of Electronics and Communication Engineering on 24th and 25th February, 2017.
- ICMR Sponsored International Conference on Advanced Information and Communication Technology' **AICT'17** Organized by Department of CSE and IT on 24th and 25th Feb 2017
- IEEE Sponsored 4th International Conference on Innovations in Information Embedded and Communication Systems (**ICIECS'17**) organised organized by Karpagam Innovation Centre on 17th and 18th March, 2017
- Sixth National Conference Emerging Trends In Electronics, Instrumentation, Automation and Control (**ETEIAC'17**) organised by the Dept of EIE on 15th March, 2017
- ISTE Sponsored National Conference on “Innovations in Engineering and Technology” (**NCIET-2017**) organised by the Dept of Mech Engg on 25th February 2017
- IEEE Sponsored International Conference on Intelligent Transport System and Vehicle Technology **ITVST 2017**, organised by the Dept of Automobile Engineering on 23rd and 24th March 2017
- Third International Conference on “Advanced Engineering and Technology for Sustainable Development” (**ICAETSD2017**) organised by the Department of Civil Engineering on 30th and 31st March 2017
- National level SCIENCE DAY celebration **CIENCIA FEST '17** organised by the Dept of Science and Humanities on 28th February 2017.

3.12 No. of faculty served as experts, chairpersons or resource persons

16

S. No	Name & Designation	Position/ Assignment	Name of the Program/ Meeting	Name of the University/ College	Whether National / International
1	Dr.J.Ganesh Murali HoD/ Automobile	Resource Person	Short Term course - Energy from Waste	Alagappa Chettiar Engineering College, Karaikudi	National
2	Dr.C.Arvind, Associate Professor ECE	Resource Person	Special and Frequency Independent Antenna	Dr.NGP Institute of Technology	National
			Talk on MOSFET in FDP	Karpagam Institute of Technology	
3	Dr.R.Vimalathithan Associate Professor ECE	Resource Person	National conference on Signal Processing and VLSI Design	Kings College of Engineering	National
4	Dr.V.V.Karthikeyan Associate Professor EEE	Guest Lecture	Power Electronics and Digital Signal Processing	Dhaanish Ahmed Institute of Technology,	National
5	Dr.S.Manoharan, Prof and Head/ EIE	Editorial Board Member	International Journal of Electrical Energy	-	International
		Technical Program Committee Member	2nd International Conference on Electronics Engineering (ICOEE 2017)	Dubai, UAE - United Arab Emirates	
6	Dr.N.K.Karthikeyan HoD/ IT R.InduPoornima AP/ IT	Representing Faculty Member	ICTACT Bridge 2016, Igniting Startup India-Role of Higher Learning Institutions Coimbatore.	ICTACT and Department of Information Technology, Govt of Tamilnadu	International
7	Dr.K.Mahalakshmi, Professor/ IT	Guest Lecture "Big Data in Health Care"	Inauguration of CSE and IT dept Association	Idhaya Engineering College for Women	National
8	Dr.N.K.Karthikeyan HoD/ IT	Expert Member	Board of Studies Meeting	SNS College of Technology, Coimbatore	State
9	Dr.K.Anuradha ASP/ MCA	Chair Person	Paper Presentation	Hindustan College of Engineering and Technology, Coimbatore	National
10	K.Uma Maheshwari AP/MCA	Resource Person	Seminar on PHP on 17 th Sep 2016	Pollachi College of Arts and Science, Coimbatore	State
11	Dr.P.Suresh, Professor and Dean/Mech	Resource Person	NAAC Awareness Workshop on 16.09.2016	Hallmark Business School, Tiruchirappali	National

S. No	Name & Designation	Position/ Assignment	Name of the Program/ Meeting	Name of the University/ College	Whether National / International
			One day workshop on "NAAC - A Deliberate approach" on 21.01.2017	AVS Engineering College, Salem.	
12	J.Anish Jafrin Thilak, AP/Mech	Resource Person	NAAC Awareness Workshop on 16.09.2016	Hallmark Business School, Tiruchirappali	National
13	Dr.M.Rajesh Babu Prof/CSE	Session Chair	International Conference on Innovations in Engineering and Technology	Inventive Research Organization	International
			International Conference on Engineering Systems and Technology		
			International Conference on Inventive Research in Emerging Technology		
14	Dr.S.Angel Latha Mary, Prof/CSE	Session Chair	International Conference on Computing Paradigms (ICCP-2016)	Don Bosco College, Yelagiri Hills, Tamilnadu	International
		Key Note Speaker	IIR Second Virtual Conference on Science , Engineering and Technology Applications	Integrated Intelligent Research (IIR), Chennai.	
		CSI Member	51th Annual Convention (CSI 2016)	Computer Society of India	National
15	Dr.S.Saravana Kumar, Prof/CSE	Session Chair	International Conference on Advance Engineering and Technology	V I Institute, Chennai	International
		Key Note Speaker	International Conference on Engineering Research	Singapore	
		Principal Investigator	Research Board Meeting	Vel Tech Engg. Works, Chennai	National
16	Dr.M.Prakash, Prof/CSE	Session Chair	International Conference on Advanced Engineering and Technology	V I Institute, Chennai	International
		Key Note Speaker			
		Co-investigator	Research Board Meeting	Vel Tech Engg. Works, Chennai	National

3.13 No. of collaborations

International National Any other

3.14 No. of linkages created during this year

3

S.No	Department	Name of the Company
1.	Automobile Engineering	JP Research India Pvt Ltd, Coimbatore
2.	Information Technology	Federation University Australia, Research Centre for Data Mining, Data Analytics Research Lab
		National Cyber Safety and Security Standards (NCSSS)

3.15 Total budget for research for current year: (Rs in Lakhs)

From funding agency 56.88 From Management of University/College 21.87

Total 78.75

3.16 No. of patents received during 2016-17

Type of Patent		Number
National	Applied	7
	Granted	1
International	Applied	-
	Granted	-
Commercialised	Applied	-
	Granted	-

S. No	Name	Patent Title	Patent No (or) Application No
1	Deepa S	Hybrid Gripper Unit for a Bore well Rescue Machine	Patent Awarded- Indian Patent
2	Dr.Arvind.C	Remote Sliding Gate Opening And Closing System Using a Wireless Module	IPR 201641019635
3	Arunkumar R	Self Assessment Fuel Meter (SAF-Meter)	IPR201641034421
4	Dr.B.Nagaraj, Arunkumar R Mithya V	Audience Behavioural Rating	IPR201641034413
5	Dr.Arvind.C	An energy efficient multichannel Temperature monitoring and Controlling PCB for foundry Automation	IPR 201641028076
6	Dr.Arvind.C	Smart hose Inventor and puller (SHIP) for bore well	IPR 201641030312
7	Dr.S.Deepa Shri (HoD/Civil) N.Mohanraj (AP/Civil) and 4 Students	Fibre Brick Using Mushroom	IPR 201741000042

3.17 No. of research awards/ recognitions received by faculty and research fellows

of the institute in the year

Total	International	National	State	University	Dist	College
2	1	1		-	-	-

S.No	Name with Designation	Nature of work for which awarded	Felicitating body	Details of award, cash prize, certificate...	Date
1	Dr.M.Rajesh Babu, Prof/CSE	Research and Development	Global Economic Progress and Research Association	Bharat Ratna Dr.Abdul Kalam Gold Medal Award with certificate	15 th Oct 2016
2	Dr.K.Nithyanandan Prof/EEE	Academics	Engineering council, UK	Chartered Engineer	27 th Oct 2016

3.18 No. of faculty from the Institution who are Ph. D. Guides

27

and students registered under them

120

3.19 No. of Scholars obtained Ph.D. from the Institution

4

3.20 No. of Research scholars receiving the Fellowships (Newly enrolled + existing ones)

JRF

-

SRF

-

Project Fellows

-

Any other

-

3.21 No. of students Participated in NSS events:

University level

State level

51

National level

International level

-

The Institution has an actively participated National Service Scheme (NSS) unit with Prof.P.Lakshmana Kumar, ASP/Auto as the Programme Officer. S. Suthagar, student of 3rd Year Mech Engg is the Secretary and Divya Priya, student of 2nd Year CSE is the Joint Secretary for this unit.

LIST OF NSS ACTIVITIES

S. No	Date & Venue	Name of the Activity	Organized by	Remarks
1	21 st June 2016 Campus premises	International Yoga Day Celebrations	Dr. S. Shiv Kumar, Faculty, Art of Living International Foundation, Coimbatore	50 volunteers participated
2	07 th July 2016 Campus premises	Swachh Bharat Mission	NSS	Cleaning the Institution's campus
3	30 th July 2016, Kundha, The Nilgiris	Swachh Bharat Mission	NSS	51 volunteers of NSS undertook "Swachh Bharat Mission Programme" and Soft Skills training
4	30 th July 2016, Annamalai, The Nilgiris	Swachh Bharat Mission	NSS	51 volunteers of NSS undertook "Swachh Bharat Mission Programme" at Annamalai Murugan Temple
5	04 th Aug 2016 College premises	Awareness Programme on Food and Nutrition	Dr. N. Prema, Assistant Professor, Department of Obstetrics and Gynaecology, Karpagam Faculty of Medical Sciences and Research, Coimbatore.	185 participants attended the programme
6	13 th & 14 th Aug 2016	Soft Skills Training Camp for students at PUP School at Denadu and Avalanche, Nilgiris	NSS	8 volunteers of NSS were involved in the activity
7	10 th Sep 2016	Campus Cleaning Programme	NSS	Cleaning the Institution's campus
8	21 st Sep 2016	Awareness Programme on Life Insurance	Mr. R. Sankar, Chief Manager, Life Insurance Corporation of India, Pollachi	50 volunteers of NSS participated
9	26 th Nov 2016	Traffic Regulation Work, Ooty	NSS Boys volunteers	Volunteers are involved in Traffic regulation work at Ooty on all Saturdays and Sundays w.e.f Nov 2016.

S. No	Date & Venue	Name of the Activity	Organized by	Remarks
10	26 th Jan 2017, Yellanalli, Ooty	Soft Skills Training Programme	NSS volunteers	Offered Soft Skills Training Programme for Panchayat Union Public School at Yellanalli, Ooty on all alternate Saturdays w.e.f 26.01.2017
11	21 st Feb 2017, VOC Park, Coimbatore	International Tamil Day Rally	Tamil Sangam, Coimbatore	15 volunteers participated in the rally held at Coimbatore
12	26 th March 2017, Avalanche, Ooty	Set up a Library for Tribal students	In association with Thoorigai Charitable Trust, Coimbatore	A Library with 1,000 books was set up by the NSS unit for tribal students at Avalanche, Ooty

3.22 No. of students participated in NCC events:

University level	-	State level	-
International level	-	National level	-

3.23 No. of Awards won in NSS:

University level	1	State level	
National level	-	International level	-

- Ms. S. T. Nivetha, Student III year ECE received, Best NSS Volunteer on 17th September 2016 award for the year of 2015-16 by the NSS Cell, Anna University, Chennai.
- A MoU signed with M/S Edudharma an academic scholarship crowd funding platform for funding various activities through NSS.

3.24 No. of Awards won in NCC:

University level	-	State level	-
National level	-	International level	-

3.25 No. of Extension activities organized

University forum	-	College forum	14
NCC	-	NSS	12
		YRC	17

Student Clubs

Twelve Student clubs have been formed on 5th August 2016 to connect, engage and explore the talents of the students. Highlights of activities of the clubs are as under

Sl. No	Name of the Club	Club Advisor	Name of the Event
1.	Food and Nutrition Club	T. Rajesh Kumar, AP/Mech	Preparation of Milkshake Varieties, Vegetable Soups Egg Varieties
2.	Film Makers Club	N.Subramani, AP/Mech	Introduction to Good Film Making Short Film Watch and Analyze On Stage Drama
3.	Drawing, Painting and Crafts Club	R. Indupoornima, AP/IT	Pencil Drawing (Eyes, Hair Styling, Face), Painting, Chalk Carving, Erase the Shading, Oil Painting, Soap Carving, Face Painting and Session for 3 D Drawing
4.	Leadership and Toastmasters Club	N. Rameshkumar, AP/S&H	Ice Breaking Session Debate “Is money alone enough to live happily” Extempore and Free Talk
5.	Journalism Club	Dr. S. Natarajan, Professor/ECE	How to be a News Reader Dub Smash Mock Parliament Session
6.	Photography Club	S. Nithiyanantham, AP/CSE	“Incredible KCE”, “Save Water” themes
7.	Ethnic Club	J. Arulvadivu, AP/ EIE	Clay to Toy and Naatupura Olympic
8.	Cycling Club	R. Arunkumar, AP/KIC	Slow Race Miss It Miss It
9.	Yoga/ Health Club	D. Nagarajan, AP/EEE	Orientation Programme on Yoga Basic Course I Story Telling
10.	Free Thinkers and Sky Watching Club	J. Selvakumar, AP/ECE	Fun Events Fun Events Treasure Hunt
11.	Nature Club	S. Manikandan, AP/ETE	Elevator and Fun Games
12.	Music and Dance Club	Dr. P. Sathiyathan, AP/S&H	Introduction Week (Music and Dance) Western Round + Evergreen 80's KCE's Super Singer

Tamil Mandram Activities

The following activities were organized by Tamil Mandram of our college during the academic year 2016-2017.

Sl.No	Type of Event	Name of the Speaker/Judge/Students	Date
1.	Tamil Debate	Event Conducted by the Institution: Judge: Dr.N.K.Karthikeyan, Prof. and Head/ IT Speakers: 1. Dr. J.Ganesh Murali, Prof. and Head/ Auto, with 2 students 2. Dr.S.Natarajan, Prof/ ECE with 2 students	15 th Aug 2016
2.	State Level Essay Writing, Poem Writing and Speech	Conducted by Kurinji Kabilar Kalai Tamil Sangam, Namakkal.	26 th Jan 2017

Youth Red Cross

The Youth Red Cross (YRC) functions with Prof. P.Lakshmana Kumar, ASP/Auto as Programme Officer for this unit. Youth Red Cross unit mainly focuses on Blood Donation, creation of awareness about it among students and lend helping hand for Orphanages by gathering contribution.

LIST OF ACTIVITIES

S. No	Date & Venue	Name of the Activity	Organized by	Remarks
1.	20 th July 2016	Orphanage Visit	YRC	100 volunteers visited Families for Children at Podanur and donated various provisions
2.	1 st Sep 2016	Orphanage Visit	YRC	45 volunteers visited Families for Children at Podanur and donated various provisions
3.	12 camps	Blood Donation Camp	Karpagam Hospital, Coimbatore	179 units of blood were donated
4.	1 st Sep 2016	Blood Donation	Government Hospital, Coimbatore	1 unit of blood was donated
5.	16 th Nov 2016	Blood Donation	GKNM Hospital, Coimbatore	2 units of blood were donated
6.	20 th Feb 2017	Blood Donation	Government Hospital, Pollachi	2 units of blood were donated

3.26 Major Extension and Institutional Social Responsibility Activities

- Blood Donation being a life saver activity, camps are routinely organised by the NSS/YRC volunteers with patronage from Karpagam Faculty of Medical Sciences and Research, Coimbatore
- Intensive programme on Abacus Maths and Vedic Maths for the benefit of Tribal Students was organised by College Volunteers at a Panchayat Union Primary school, The Nilgiris on 13th and 14th Aug 2016.
- Volunteers of Institution are teaching on “Soft skills” such as spoken English, Basic Yoga, Abacus Maths and Training programs on Computer usage on a fortnight basis from 18th Nov 2016, at Government primary school, Yellanalli, a tribal area in The Nilgiris.

Criterion – IV

4. Infrastructure and Learning Resources

4.1 Details of increase in infrastructure facilities:

Facilities	Existing	Newly created	Source of Fund	Total
Campus area	11.43 Ha	-	Trust	11.43 Ha
Class rooms	83	-	Trust	83
Laboratories	72	-	Trust	72
Seminar Halls	6	-	Trust	6
No. of important equipments purchased (\geq 1-0 lakh) during the current year.	-	-	-	-
Value of the equipment purchased during the year (Rs. in Lakhs)	-	58.19	Trust	-
Others	-	-	-	-

4.2 Computerization of administration and library

The total number of computers in central library is 33 with two printers and enabled internet access for the students.

4.3 Library services:

	Existing		Newly added		Total	
	No.	Value Rs. Lakhs	No.	Value Rs. Lakhs	No.	Value Rs. Lakhs
Text Books	43,147	105.45	1157	5.79	44,304	111.24
Reference Books	1,780	6.92	34	0.14	1,814	7.06
e-Books	-	-	-	-	-	-
Journals	281	2.83	6	0.21	287	3.04
e-Journals	223	5.60	-	-	223	5.60
Digital Database	-	-	-	-	-	-
CD and Video	2289	-	115	-	2404	-
Others (specify)						
Back volumes	5325	-	498	-	5823	-
Project reports	1540	-	725	-	2265	-
Question papers	646	-	52	-	698	-

4.4 Technology up gradation (overall)

	Total Computers	Computer Labs	Internet	Browsing Centres	Computer Centres	Office	Dept	Others
Existing Upto May 2016	1935	27	155 Mbps	6	-	11	202	-
Added June2016-May 2017	47	2	155 Mbps	-	-	1	-	-
Total	1982	29	155 Mbps	6	-	12	202	-

4.5 Computer, Internet access, training to teachers and students and any other programme for technology upgradation (Networking, e-Governance etc.)

- One day Seminar on “SYS-CONNECT” was organised by Computer Science and Engineering with 112 participants.
- One day National level workshop on “FOSS-16” was organised by Master of Computer Applications, on 12th August 2016 with 118 participants.
- One day National level workshop on “Open Source Technologies” (OST’2017) was organised by Master of Computer Applications (MCA), on 3rd March 2017.
- One day Hands on Training Workshop on “Light Weight Application Development for IoS and Android” was organised by Computer Science and Engineering, on 09th Sep 2016 with 61 participants.
- Two days workshop on “Big data Analysis” on 23rd and 24th Sep 2016 organised by the Dept of IT
- One day workshop on IEEE student branch sponsored “Embedded system design for Internet-of-things” on 19th Sep 2016 organised by the Dept of ECE
- One day workshop on “Machine to machine communication”- A pathway to smart city on 23rd Sep 2016 organised by the Dept of ECE
- One day workshop on “VLSI system design using CADENCE TOOL” on 30th Sep 2016 organised by the Dept of ECE
- One day IEEE sponsored National level workshop on ‘Electromagnetism and problem solving using SCILAB’ on 24th May 2017

- One day workshop on “Microstrip patch antenna design using ADS tool” on 24th Sep 2016 organised by the Dept of ETE
- Two days National level Workshop on “Internet of Things” on 14th and 15th Oct 2016 organised by the Dept of ETE
- One day lecture on “Higher Educational Opportunities for Instrumentation Engineers” conducted on 5th August 2016
- One day Workshop on “Industrial automation using PLC” was organised by Electronics and Instrumentation Engineering, on 26th Sep 2016.
- Two days National level Workshop on “Mastering MATLAB Power Electronics Toolbox” on 14th and 15th Oct 2016 organised by the Dept of EEE
- Two day National level Workshop on “MATLAB for Power system Applications” on 27th and 28th Jan 2016 organised by the Dept of EEE
- One day workshop on “Ethical Hacking” was organised by Electronics and Telecommunication Engineering, on 29th Sep 2016 with 40 participants.
- One day National level workshop “Engine design development testing and emission control technologies” on 7th Oct 2016 organised by the Dept of Automobile Engineering
- One day National level, RIDE 2016 “Mini Bike Design and Fabrication and Racing contest” was organised by the Department of Automobile Engineering on 23rd Sep 2016. Sponsorship given by Oppo Mobiles, FORD, and Motor Vikatan with 100 participants.
- One day National level workshop on “Mini Bike Design” was organised by Department of Automobile Engineering, on 5th Aug 2016 with 370 participants.
- Guest lecture on “Captive power generation using Bio-mass- gasifier” was organised by Mechanical Engineering, on 24th Aug 2016 with 138 participants.
- Guest lecture on “Composite materials manufacturing and its applications” was organised by Mechanical Engineering, on 29th Aug 2016 with 156 participants.
- Guest lecture on “Operations Research – Scheduling and Assessment models” was organised by Mechanical Engineering, on 30th Aug 2016 with 148 participants.
- One day workshop on “Hands on training in Heat Transfer System Modelling, Meshing and Simulation” was organised by Mechanical Engineering, on 30th Sep 2016 with 68 participants.
- Two days CSIR sponsored National level seminar on ‘Application of Micro Air Vehicles and Aerodynamic Challenges’ on 5th and 6th May 2017 organised by the Department of Mechanical Engineering
- Two days CSIR National level workshop on ‘Application of Rapid prototyping and 3D printing in Biomedical Engineering’ on 15th and 16th April 2017 organised by the Department of Mechanical Engineering

- Two days CSIR sponsored National level seminar on ‘Recent advances in Bio fuel production and Applications’ on 4th and 5th April 2017 organised by the Department of Mechanical Engineering
- One day National level Workshop on “Applications of E-Tabs and MX Road in Civil Engineering” was organised by the department of Civil Engineering with 217 participants

4.6 Amount spent on maintenance: (Rs. in Lakhs)

i) ICT	81.93
ii) Campus Infrastructure and facilities	525.52
iii) Equipments	3.47
iv) Others	1.49
Total :	612.41

Criterion – V

5. Student Support and Progression

5.1 Contribution of IQAC in enhancing awareness about Student Support Services

The student support services offered are:

➤ Tutor Ward Meeting

For a batch of 20 – 25 students, a Tutor from the department concerned is nominated. Every week one hour is allotted for conducting the Tutor Ward Meeting in the class. Tutors will have one-to-one contact with the students to identify the need of the students. Students can also meet their Tutors in their cabins after class hours. Any issues related to academic, co-curricular and extra-curricular activities or others are brought to the knowledge of the Head of the Department and the decisions are taken. Accordingly the Advisors and Tutors counsel the students to remove their hardship.

➤ Class committee meeting

Every class shall have a Class Committee consisting of teachers of the class concerned, student representatives and a chairperson who is not a teacher for the class. It is like the “Quality Circle” (more commonly used in industries) with the overall goal of improving the teaching-learning process. The class committee for a class under a particular branch is normally constituted by the Head of the Department. The functions of the class committee include the following:

- Addressing the difficulties experienced by students in Class room and Laboratories
- Clarifying the regulations of the Degree programme and the rules in there particularly, should be displayed on College Notice Board
- Informing the students representatives, the academic schedule including the dates of assessments and the syllabus coverage for each assessment
- Informing the student representatives the details of Regulations regarding weightage used for each assessment. In the case of practical courses (laboratory / drawing / project work / seminar etc.) the breakup of marks for each experiment / exercise / module of work, should be clearly discussed in the class committee meeting and informed to the students
- Analyzing the performance of the students of the class after each test and finding the ways and means of solving hardships, if any
- Identifying the slow learners and requesting the teachers concerned to provide some academic help or guidance or coaching to such weak students

➤ Physically challenged/differently abled students:

These students are provided with barrier free environment or provided with class rooms in the ground floor itself for their easy mobility.

➤ SC/ST, MBC, BC and economically weaker sections:

Students belonging to such of the above are given scholarships by the management in deserving cases. The College also facilitates students of the above category to get scholarships from Government of Tamilnadu.

➤ Students to participate in various competitions/conferences:

Students are encouraged to participate in various Seminars, Symposiums, Workshops, Conferences and Internship programmes. Students are given on-duty leave for participation. Special classes are conducted during Saturdays and evenings for the students as compensation.

➤ Health centre, health insurance etc.:

A health centre functions inside the campus which has a Part time Doctor and an attendant Nurse. Students can make use of the service for any minor ailments. A full-fledged MCI approved Hospital run by the Trust “Karpagam Faculty of Medical Sciences and Research” is situated just a Kilometre away from the College. An ambulance is available in the College 24×7 for any emergency needs. Group health insurance facility is available for all the students, faculty and Non-Teaching staff of the College.

A guest lecture on the Importance of Life Insurance was conducted on 21st Sep 2016 by Mr.R.Sankar, Chief Manager, Life Insurance Corporation of India, Pollachi.

➤ Skill development (spoken English, computer literacy, etc.):

The Institution in collaboration with Cambridge University conducts Training for Business English Certification and 292 students got certified. Further the computer literacy courses like C Programming and Laboratory are also offered to all the students. Students are divided into Batches as per skill sets and need based coaching classes are conducted starting from second year of their study (such as Aptitude, Reasoning / Problem Solving, etc.)

The detail of such programmes organised during 2016-17:

S.No	Skill Development Programs	Duration
1	Computer Networking-SDC36	6 Months
2	Web Designing- SDC12	6 Months
3	Mobile Servicing – SDC10	6 Months

- Performance enhancement for slow learners/ students who are at risk of failure and dropouts:

The slow learners are identified through Result Analysis of CIA tests and class tests. Remedial classes are conducted to improve their performance. Question banks consisting of last five years Question papers of the End Semester Examinations along with answers are compiled and provided to those students. The e-content of the same is uploaded in the College Intranet which can be downloaded via Wi-Fi facility by the students.

- Exposure of students to other Institutions of higher learning/corporate /business houses, etc.:

Awareness programmes are conducted to provide the details about the higher studies in India and abroad. Orientation programmes are also conducted for the students on various competitive civil service examinations regularly by engaging outside experts. Each department releases a magazine every year, where in students of the department can contribute their Technical articles, Paintings, Themes, Poems. Students are encouraged to contribute for publications.

5.2 Efforts made by the Institution for tracking the progression of the students:

- Based on the feedback from Class Committee Meeting, Tutor Ward Meeting and Result Analysis of the Continuous Internal Assessment Tests, slow learners are identified and remedial classes are conducted during evening hours and holidays
- Identifying the slow learners and requesting the teachers concerned to provide some additional help or guidance or coaching towards academic performance.
- All teaching faculty prepare course materials for the courses which are offered before commencement of each semester. Such course materials are given to the slow learners to improve their performance in the CIA tests.

- Question bank with objective type questions with keys are provided to the students to enable them score better in the examinations. The e-content of the same is also uploaded in the College intranet which the students can access anywhere inside the campus through Wi-Fi facility.

5.3 (a) Total Number of students

UG	PG	Research	Others
4052	171	106	-

(b) No. of students from outside the state

(c) No. of international students

Men	No	%	Women	No	%
	3080	72.93		1143	27.07

Last Year						This Year					
General	SC	ST	OBC	Physically Challenged	Total	General	SC	ST	OBC	Physically Challenged	Total
258	446	17	3728	2	4449	223	377	16	3605	2	4223

Demand ratio: 77.5% Dropout : 0.95 %

5.4 Details of student support mechanism for coaching for competitive examinations (If any)

The College offers training classes for students to appear in the

- (i) GATE examination (ii) Civil services and (iii) Indian Defence Service.

The classes are regularly conducted during evening hours.

No. of student beneficiaries

5.5 No. of students qualified in these examinations

NET	<input type="text" value="-"/>	SET/SLET	<input type="text" value="-"/>	GATE	<input type="text" value="-"/>	CAT	<input type="text" value="-"/>
IAS/IPS etc	<input type="text" value="-"/>	State PSC	<input type="text" value="-"/>	UPSC	<input type="text" value="-"/>	Others	<input type="text" value="-"/>

5.6 Details of student counselling and career guidance

Tutor Ward system with Class Tutor and Advisor is being followed.

- For each batch of 20 – 25 students, a Tutor from the department is assigned. Every week one hour is allotted for conducting the Tutor Ward Meeting in the class. Each tutor will have one-to-one contact with the students to identify the needs of the students. Any issues related to academic, co-curricular and extra-curricular activities, health problem communication problem, family problem, others are brought to the knowledge of the Head of the Department and decisions are taken; accordingly the Advisors and Tutors counsel the students.
- Every class shall have a Class Committee consisting of teachers of the class concerned, student representatives and a chairperson who is not teaching the class. It is like the “Quality Circle” (more commonly used in industries) with the overall goal of improving the teaching-learning process. Special care is taken to improve the personality and Soft Skills of the students. Soft skills is one of the Practical Courses for all UG students in which they are trained in areas/taught the topics like Effective English, Art of Communication, Group discussion and Interview Skills and also on Business Etiquettes and Ethics
- Students are also given orientation on personality development through “Infosys Campus Connect” Programmes
- The “Training and Placement Cell” handles classes on various topics related to career guidance for all the students
- Awareness programmes are conducted to provide the details about higher studies in India and abroad
- Orientation programmes are conducted for the students on various competitive exams
- In order to make the Mentoring system effective, an one day workshop on mentoring was conducted for the faculty on 11th June 2016 with Dr. P.Vijayakumar, Principal and Dr.B.Nagaraj, Head/ KIC as resource persons

Training and Placement Cell

A full-fledged Training and Placement Cell, headed by Dean (Training and placement) with the assistance of Manager (Corporate Relations) and Manager (Extension Activities) is functioning in the College effectively since 2003-04. Some major activities of the cell are:

- Starting from II year of study the students are given hands-on training on Aptitude, Problem Solving Skills, Test of Reasoning, Oral and Written Communication Skills
- Providing Tailor made training on certain modules like software testing, cloud computing etc to a select set of interested students
- Such modules are identified based on the feedback from the previous employers and college Alumni
- Helping the students in preparing their Resume in such a way that their potentials are exhibited
- Identifying the companies based on their profile for campus recruitment
- Arranging the HR interactions meet, wherein the students can meet the HRs, and get to know about the companies
- Mapping the profile of the companies with the skill sets of the students and arranging campus drive for those matching students
- Getting post employment feedback from the employers and pass on the information to the final year students so that any lacuna in the training is overcome
- Getting feedback from the immediate graduates after they join the companies and provide valuable information, if any to the junior students for their placement

No. of student benefited

725

5.7 Details of campus placement

Organizations Visited		Students Participated	Students placed		Offers received		Total Offers Received
<i>On campus</i>	<i>Off Campus</i>		<i>On campus</i>	<i>Off Campus</i>	<i>On Campus</i>	<i>Off Campus</i>	
44	35	725	461	96	654	106	760

On Campus Recruitment

S.No	Name of the Company	No of students appeared	Offers
1	EVIVE HEALTH	321	0
2	SOLITON	317	2
3	JUSPAY	300	1
4	VIA.COM	212	6
5	INFORMATICA	90	4
6	AMAZON	306	13
7	VOONIK	426	1
8	ODESSA	612	3
9	ZOHO	600	20
10	URJANET	205	8
11	INAUTIX	175	33
12	NATIONSTAR MORTGAGE	200	1
13	LUCID	30	0
14	CLOUD ASSERT	90	5
15	MALLOW	150	1
16	IONIXX	180	3
17	EXCELACOM	99	7
18	GLOBAL EDGE	359	5
19	SKAVA	67	9
20	NOKIA ALCATEL	53	9
21	CTS	612	125
22	WIPRO	482	158
23	GYANMATRIX	315	7
24	INFOSYS	581	65
25	PHOTON INFOTECH	44	0
26	TECHM	263	42
27	TNQ	30	2
28	AIRTEL	44	20

S.No	Name of the Company	No of students appeared	Offers
29	AMAZON CS	29	5
30	APPRANIX	85	2
31	ADWAITH	15	4
32	VERIZON	17	1
33	TORRY HARISE	18	3
34	UGAM	34	2
35	SERVION	76	2
36	WELDCRAFT	19	0
37	CIGITAL	125	2
38	INFOVIEW	52	4
39	EVEREST	10	0
40	KGISL	24	2
41	AADHI MARUTHI	30	20
42	IDBI	76	40
43	CAMPUS IMAGE	5	2
44	RELIGARE SECURITIES	35	15
		TOTAL	654

Off Campus Recruitment

S.No	Name of the Company	No of students appeared	Offers
1	PAYODA	60	2
2	ECON	51	0
3	VMWARE	9	1
4	COMMVault	50	0
5	VURAM	237	5
6	GOFRUGAL	54	1
7	YODLEE	112	1
8	HP	156	44
9	PAYPAL	28	3

S.No	Name of the Company	No of students appeared	Offers
10	PROCYON	107	0
11	FSS	76	0
12	NTT	10	0
13	IBS	211	2
14	KAAR TECH	43	0
15	TITAN	45	1
16	KL TECH	35	2
17	PANTECH	49	11
18	BOSCH	15	1
19	SURYA INFORMATICS	10	0
20	ASPIRE SYSTEMS	17	0
21	STERNA	55	10
22	SOPRA STERIA	25	1
23	AATHI MEDI SYSTEMS	4	1
24	SPIRO SOLUTIONS	3	2
25	A2B2 IT SERVICES	6	5
26	BERRY TECH	4	1
27	ADHI CONTROLS	3	1
28	TECHNO PACK	5	1
29	INFOTECH	4	3
30	GSV CORP	2	2
31	CSS CORP	12	1
32	SUZLON	5	1
33	NAV AGRO	7	1
34	EASY DESIGN SYSTEM	10	1
35	RBV ELECTRONICS	15	1
		TOTAL	106

5.8 Details of gender sensitization programmes

Women Development Centre is functioning in the College and all the girl students are its members. 85 girl students and 12 female faculty members from all the departments participated in the Gender Sensitization Program organised by the Women Development Centre during the academic year 2016-17.

S. No	Name of the Programme	Resource person	Date
1.	Trekking	Dr.D.Sarulatha,, Department of English, joined hands with the girl students for trekking at Ooty	30 th July 2016
2.	Blood Donation Camp	Dr.D.Sarulatha, Department of English, Coordinated the girl students and donated blood at Karpagam Hospital.	3 rd Sep 2016
3.	An awareness Programme on Woman and Social Media	Dr.S.Deepashri, HOD/Civil gave a guest lecture for all the first year girl students on the topic “Woman and Social Media”.	10 th Oct 2016
4.	Women's Day Celebrations	Karpagam Institutions organised the Women's Day celebration and Karpagam College of Engineering joined hands with them. Dr. S.Angel Latha Mary, Prof/CSE, Indra Priyadarshini AP/EIE and Dr.D.Sarulatha AP/S&H along with all the WDC-members and students of the college conducted various events for the public and the function was a grand success.	8 th Mar 2017

5.9 Students Activities

5.9.1 No. of students participated in Sports, Games and other events

State/ University level

139

National level

-

International level

-

5.9.2 No. of medals /awards won by students in Sports, Games and other events

Sports:

State/ University level

21

National level

-

International level

-

Sports and Games Achievements 2016-17

S.No	Name of the event	Category	Achieved	Organised by	Level
1	Badminton	Women	First	Nehru Institute of Engineering and Technology, Coimbatore	Anna University Zone 10
2	Ball Badminton	Women	First	Hindustan College of Engineering and Technology, Coimbatore	Anna University Zone 10
3	Volley Ball	Women	First	Sri Ramakrishna Institute of Technology, Coimbatore	Anna University Zone 10
4	Table Tennis	Women	First	Sri Krishna College of Engineering and Technology, Coimbatore	Sri Krishna Trophy
5	Basket Ball	Men	First	Adithya Institute of Technology, Coimbatore	Adithya Trophy
6	Athletics	Men and Women	One Gold and two Bronze Medals	Hindusthan College of Engineering and Technology, Coimbatore	Anna University Zone 10
7	Push up Championship	Men	Silver Medal	Coimbatore	State level
8	Volley Ball	Women	Runners up	Coimbatore Institute of Technology, Coimbatore	CIT Trophy
9	Table Tennis	Women	Runners up	Hindusthan College of Engineering and Technology, Coimbatore	Anna University Zone 10
10	Chess	Men	Runners up	Sri Krishna College of Technology, Coimbatore	Anna University Zone 10
11	Hockey	Men	Runners up	Dr. Mahalingam College of Engineering and Technology, Pollachi	Anna University Zone 10
12	Volleyball	Men	Runners up	Akshaya College of Engineering and Technology, Coimbatore	Anna University Zone 10
13	Ball Badminton	Women	Third	Adithya Institute of Technology, Coimbatore	Adithya Trophy
14	Table Tennis	Women	Third	Kumaraguru College of Technology, Coimbatore	KICS Trophy
15	Hockey	Men	Third	Kumaraguru College of Technology, Coimbatore	KICS Trophy
16	Ball Badminton	Men	Third	In the Institution	Anna University Zone 10
17	T-10 Cricket	Men	Third	Karpagam University, Coimbatore	Karpagam Trophy
18	Handball	Men	Third	SVS College of Engineering, Coimbatore	Anna University Zone 10

S.No	Name of the event	Category	Achieved	Organised by	Level
19	Tennis	Men	Third	In the Institution	Anna University Zone 10
20	Table Tennis	Men	Fourth	Hindusthan Institute of Technology, Coimbatore	Anna University Zone 10

Events Organized

The Department of Physical Education organized Ball Badminton and Tennis Men Tournaments for Zone 10 of Anna University Chennai and also organized the Karpagam Educational Inter Institutional Sports Tournaments events like Badminton (M&W), Ball Badminton (M&W), Table Tennis (M&W), Chess (M&W), Volley Ball (W), Throw Ball (W) Tournament in the year 2016-17.

Cultural Events

- ‘Dhruva Fest’ is one of the biggest vibrant techno management cultural fest organized by Karpagam College of Engineering, Coimbatore on 3rd and 4th of February 2017. It is initiated with an aim of providing opportunities to the student community to bring out the immense talent in the competitions modelled to test the technical acumen, programming skills, flair for business management, dancing and other cultural abilities of the participants. Special events like DJ nights, colour splash, reality game show were conducted.
- Cinea Fest 2017, National Science Day celebrations held on 28th Feb 2017 with events like Science quiz, Science Model, Paper presentation, Short film, Connections, Spell bee exclusively for the first year students.
- KALAM 2017 is an inter-collegiate cultural fest conducted on 12th March 2017.

5.10 Scholarships and Financial Support

	No. of students	Amount Rs. Lakhs
Financial support from Institution	23	5.91
Financial support from government	2775	515.77
Financial support from other sources	-	-
Number of students who received International/ National recognitions	-	-

5.11 Student organised / initiatives

Fairs :

State/ University level

National level

International level

Exhibition:

State/ University level

National level

International level

5.12 No. of social initiatives undertaken by the students

List of social initiatives

- “Swachh Bharat Abhiyan”- cleaning the Institution’s campus was conducted on 07th July 2016.
- “Swachh Bharat Abhiyan” - cleaning programme was organised by volunteers of NSS at Annamalai Murugan Temple, The Nilgris on 30th July 2016
- Intensive programme on Abacus Maths and Vedic Maths, for the benefit of Tribal students was organised by volunteers at Panchayat Union Primary school, Denadu Village, The Nilgiris on 13th and 14th Aug 2016.
- A team of NSS volunteers visited “Families for Children” at Coimbatore and donated various provisions on 20th July and 01st Sep 2016.
- Volunteers of Institution are teaching on “Soft skills” such as spoken English, Basic yoga, abacus maths and training programs on computer usage regularly on a fortnight basis from 18th Nov 2016, at Government primary school, Yellanalli, a tribal area in the Nilgiris
- A team of NSS Volunteers are helping the police in Traffic regulation work at Ooty on all Saturdays and Sundays from Nov 2016.
- Blood Donation Camps were organised by NSS/ YRC volunteers and 184 units of blood were donated.
- The NSS unit in association with ‘Thoorigai Charitable Trust’, Coimbatore setup a library for school children at Avalanche, The Nilgiris, on 26th March 2017.

5.13 Major grievances of students (if any) redressed:

NIL

Criterion – VI

6. Governance, Leadership and Management

6.1 State the Vision and Mission of the Institution

Vision

To become one of the best Institutions at the National and International level by incorporating innovative teaching learning methods to enable the students to secure a high-value career, motivate to pursue higher education and research to serve the society

Mission

- To bring out knowledgeable engineers and professionals in their field of specialization by having qualified and trained faculty members and staff besides necessary infrastructure and to create highly conducive teaching and learning environment
- To work in close association with stakeholders by way of enhanced industry – institute interaction, to take up need based research and industry specific programmes
- To organize co-curricular and extracurricular activities for character and personality development to produce highly competent and motivated engineers and professionals to serve and lead the society

6.2 Does the Institution has a management Information System

Yes. The College maintains centralised ERP software for the following.

- To capture students data
- To maintain their attendance and to track their presence
- Data maintenance on continuous assessment process
- Enable automated result analysis
- To identify the slow learners by data analysis
- Enable students to know their attendance status and marks online
- Enable the parents to know the attendance status and academic performance of their wards online

6.3 Quality improvement strategies adopted by the Institution for each of the following:

6.3.1 Curriculum Development

- The curriculum and syllabi revision originates from faculty members and students by way of feedback; thus forming input to Curriculum Development and then placed to Board of Studies (BoS)
- The BoS is the primary decision making body for the curriculum development and further process
- The Academic Council is the apex body that decides (based on the recommendations of the BoS) and approve the curriculum and regulations.

6.3.2 Teaching and Learning

- Fine tuning of the existing programmes by updating course contents by BoS in line with industry needs
- Introducing innovation in the existing programme
- Introduction of new programme
- Introduction of additional electives based on the feedback from Industry, employers.
- Complete digitalization of the Central Library
- Greater focus on ICT based learning
- Special coaching facilities for the students to appear in competitive and entrance examinations
- Conducting industry focussed Training and Placement classes
- CBCS provides the students greater flexibility in choice of their courses chosen viz, multi-disciplinary, basic/advanced levels, inter-disciplinary etc., to acquire job oriented skills.

6.3.3 Examination and Evaluation

- CIA test dates and End Semester Examination schedule are provided in advance by providing academic calendar
- The students are appraised on the above through Tutors and also in Class Committee Meetings followed by issue of periodic circulars
- The complete evaluation procedure and the rules and regulations for various programmes are printed in Academic Calendar which is distributed to the students. Any changes/ amendments made in the regulations are conveyed to the students through their Tutors.

- The End Semester Examination results once declared will be hosted in the Institution's website (www.karpagam.edu.in)
- The academic and evaluation processes are also explained to the parents during the Orientation programme for First year students conducted at the beginning of each year.

6.3.4 Research and Development

- Improvement and Modernisation of Laboratories relevant for research
- Encourage the faculty for Journal publications, attending workshops and guest lectures by giving incentives
- Apply and seek funding from various Government agencies for research activities
- Establishing formal and informal linkages with research Institutions of repute
- Inculcating the spirit of research among students by introducing projects and Skill based assignments
- Undertaking consultancy works from Industries with active participation of the faculty / students

6.3.5 Library, ICT and physical infrastructure / instrumentation

Contents	Details / Description
Total area of the Library (in Sq. Mts.)	1479 Sq. mts
Total seating Capacity	242
Working hours (on working days, on holidays, Before Examination days, during examination days, during vacation)	8.00 am to 8.00 pm (on working days) 9.00 am to 5.00 pm (on holidays)
Access to the premises through prominent display of clearly laid out floor plan; adequate signage; fire alarm; access to differently abled users and mode of access to collection.	All are available

DETAILS ON THE LIBRARY HOLDINGS

Details of Library Holdings	Total No.
A. Print	
i. Books	71894
ii. Special collection : Text Books	6350
iii. Special collection : Reference Books	2264
iv. Thesis	4508
B. Journals	
i. e-Journals	25772
ii. Back Volumes	8798
C. Non Print (Microfiche, AV)	3501

The library deploy to provide access to the collection

- OPAC - Available (with 5 PCs)
- Electronic Resource Management package for e-journals: Yes
- Federated searching tools to search articles in multiple databases: DELNET
- Library Website (intranet) : <http://172.16.100.11/Library>
- In-house/remote access to e-publications: Available

The Central Library has subscription to the following e-journals:

- All IEEE Journals – 196 Nos
- All ASME Journals – 26 Nos

ICT deployed in the library

Library Automation	Yes
Total number of Computers for public access	39
Total numbers of Printers for public access	1
Internet bandwidth speed	155Mbps
Institutional Repository	Yes
Content Management system for e-learning	Yes
Participation in Resource sharing networks/consortia (like INFLIBNET)	DELNET

Provide details

Average number of walk-ins	400 (per day)
Average number of books issued/returned	200 (per day)
Ratio of library books to students enrolled	1:16
Average number of books added during last four years	5975
Average number of login to OPAC	400 per day
Average number of login to e-resources	45
Average number of e-resources downloaded/printed	20
Number of information literacy trainings organized	Twice in a semester

Infrastructural development of the library over the last four years.

- Additional area of 930 Sq.metres has been added for digital library
- Twenty Computers were added for referring on-line resources
- Furniture worth Rupees Five Lakhs were added in reading room

6.3.6 Human Resource Management

- Faculty are permitted to attend orientation programmes and refresher courses organized by the affiliated Institutions of the University
- The faculty are encouraged to attend Seminars, Workshops etc. organized by other Colleges, to have more contacts with the outside Institutions
- Organizing Seminars and FDPs in the College for supporting the faculty in improvising their academic skills
- Encouragement and assistance to in submitting research proposals
- Encouraging the faculty by providing on duty leaves to pursue their Ph.D
- Regular up gradation of ICT learning infrastructure and familiarizing it to faculty
- Orientation programmes are conducted for non-teaching staff for their skill upgradation

6.3.7 Faculty and Staff recruitment

Teaching Staff Recruitment

The notice of vacancy calling for various posts will be published in newspapers and also in Institution website. As the Institution is an equal opportunity employer, invites prospects to join hands to build a platform of excellence in teaching and learning. The professionals who are interested in a Career with the Institution will submit their profile online to Institutional website.

For teaching positions, proven research expertise/demonstrated interest in research, by way of quality publications/sponsored projects/patents are preferred. Candidates with industry experience will be given preference. The Institution follows two tier staff recruitment process for teaching positions. The selected applicants will be called for a written examination. The examination will be conducted in core subject and subject based on their specialization. Based on the performances the meritorious candidates will be called for an interview. The expert panel members analyses the candidate, his/her subject knowledge, communication skills and attitude towards teaching. The candidate exhibiting good skills will be selected.

Non-Teaching Staff Recruitment

The notice of vacancy calling for various posts will be published in newspapers and also in the Institution's website. Candidates who are Interested in a Career will submit their profiles online the Institutional website. Or they can also submit their profile to administrative office. Suitable educational qualification and sufficient experience in the respective field is preferred. The selected applicants will be called for interview. Interview will be conducted by the section heads to test their skills and candidate with sufficient skill level will be selected.

6.3.8 Industry Interaction / Collaboration

Industry interaction makes a good platform to bridge the gap between industry and the academic Institutions. This encourages the faculty and students to interact with industry in all possible ways with the spirit of deriving mutual benefit. The following were the linkages created during the academic year 2016-17

S.No	Department	Name of the Company
1.	Automobile Engineering	JP Research India Pvt Ltd, Coimbatore
2.	Information Technology	Federation University Australia, Research Centre for Data Mining, Data Analytics Research Lab
		National Cyber Safety and Security Standards (NCSSS)

6.3.9 Admission of Students for the academic year 2016-17

Under Graduate Programmes

S. No	Programmes	Sanctioned Intake	Admitted
1	Automobile Engineering	60	50
2	Civil Engineering	90	78
3	Computer Science and Engineering	120	113
4	Electronics and Communication Engineering	180	156
5	Electrical and Electronics Engineering	180	148
6	Electronics and Instrumentation Engineering	90	74
7	Electronics and Telecommunication Engineering	60	47
8	Information Technology	120	103
9	Mechanical Engineering	180	167
	UG Total	1080	936

Post Graduate Programmes

S. No	Programmes	Sanctioned Intake	Admitted
1	MBA- Master of Business Administration	180	41
2	MCA- Master of Computer Applications (Lateral Entry)	120	32
3	M.E- Communication Systems	18	1
4	M.E- Mechatronics	18	1
5	M.E- VLSI Design	18	-
	PG Total	354	75

6.4 Number of Welfare schemes provided

Teaching	7
Non teaching	7
Students	1

Details of welfare schemes:

S.No	Welfare Scheme	% of Faculty and Staff Beneficiaries
1	Group insurance scheme for both Faculty and Students.	100
2	Employee Provident Fund	100
3	Maternity Leave for Lady Faculty	10
4	Subsidized transport Facility	100
5	On-duty leaves for staff pursuing higher studies	22
6	Sponsorship for attending Seminars/ workshops/ conferences	18
7	Gratuity	100

6.5 Total corpus fund generated

6.6 Whether annual financial audit has been done Yes ☒ No ☐

6.7 Whether Academic and Administrative Audit (AAA) has been done?

Audit Type	External		Internal	
	Yes/No	Agency	Yes/No	Authority
Academic	-	-	Yes	IAA
Administrative	-	-	Yes	Principal

6.8 Does the University/ Autonomous College declare results within 30 days?

For UG Programmes Yes ☒ No ☐

For PG Programmes Yes ☒ No ☐

6.9 What efforts are made by the University/ Autonomous College for Examination Reforms?

Anna University plays a vital role in the academic and administrative affairs by nominating representatives on various bodies like Board of Studies, Academic Council and Result Passing Board of the Institution.

The availability of adequate level of Human resources and infrastructure is monitored by the University. The inspection team from the University carries out a detailed inspection for starting a new programme and also for the extension of affiliation. The reports provide meaningful inputs for establishment of the facilities in the Institution.

6.10 What efforts are made by the University to promote autonomy in the affiliated/constituent Colleges?

- The role of Centre for Academic Courses of the Anna University is to administer all academic matters of Affiliated Engineering colleges coming under it.
- Centre for Academic Courses is responsible for organizing meetings of all Academic bodies such as Academic Council, Board of Studies, Standing Committees and Syllabus Committees.
- Centre for Academic Courses provide permanent affiliation for colleges which helps them to go for seeking autonomy. The applications for autonomy from the colleges are forward to UGC after proper scrutiny and necessary support in respect of older colleges which completes atleast ten years of service. Upon receiving the University's recommendation, UGC appoints an "expert committee"

that takes inspection of the affiliated colleges for verification of relevant facilities and academic excellence for grant of autonomy.

6.11 Activities and support from the Alumni Association

Karpagam College of Engineering has a registered Alumni Association under the Tamil Nadu Societies Registration Act, 1975 (Tamil Nadu Act 27 of 1975) on 31st December 2015.

The Management, Principal, Deans, Directors, all HoDs and office bearers of the KCE Alumni association feel very grateful for the grant of Rs. 30 Lakhs offered by the alumni for the association. The amount is kept in fixed deposit with Lakshmi Vilas Bank (Echanari Extension Counter). The income by way of interest earned is used in the following manner:

- On the ‘graduation day’, best projects in every programme is awarded with cash prize of Rs. 2500/-
- Rs. 25,000 per student is provided for six students chosen from all the departments who are meritorious and pursuing higher studies in our Institution every year.
- Rs. 25,000 is given for Product Development Cell and Entrepreneurship Development Cell (EDC) every year for improvement in the facilities.

6.12 Activities and support from the Parent – Teacher Association

Not Applicable

6.13 Development programmes for support staff:

Non-teaching staff are one of the stakeholders in the Institution. Realising the importance for up-gradation of their skill levels, a number of initiatives/ concessions are extended for improvement.

- Workshops conducted with in-house experts every year
- Sponsorship given for attending training / other programmes outside the campus.
- Encourage them for acquiring additional qualification towards their career development by issue of no objection certificate.

6.14 Initiatives taken by the Institution to make the campus eco-friendly

a) Energy conservation:

- Awareness created by sign boards to switch off fans and lights whenever students/faculty leave the Class Room, Bathroom, Laboratories, hostel rooms, etc. Hoarding and Sign Boards are kept in prominent places of the campus
- Copper chokes in tube lights are converted to electronic chokes and LED fittings which consume less energy
- Ceiling fans were fitted with Electronic regulators which are used in the class rooms and hostels
- Capacitor bank is employed in the Power House to improve the power factor
- Water usage has been regulated in the campus in taps by spring loaded stoppers thereby saving energy in pumping

b) Use of renewable energy:

- Solar powered street lamps were installed in the College premises. These lights function independently with their own photo-voltaic panels

c) Water harvesting:

- Rain water harvesting facilities are provided at multiple locations in the academic campus

d) Efforts for Carbon neutrality:

- The campus is situated in a serene atmosphere away from the main road/ human habitats and it is pollution free
- Majority of the labs are non AC except for few (Computer Labs, and Seminar Hall). Hence, leakage of green house gases produced by the air conditioners is very minimal
- The greenery and large coconut trees in the campus helps to neutralize carbon by products that are generated in the campus
- Plying of Automobiles is restricted inside the campus and the parking area is earmarked separately outside the college premises.

e) Plantation:

- All the construction of lab and classroom buildings are well surrounded by trees
- To keep the campus green, the gardens are properly watered and maintained by the maintenance staff
- Coconut trees are grown inside the campus to an extent of ten acres

- The Estate maintenance division of the College by planting different varieties of plants, to keep the College free from pollution at the same time maintaining aesthetics
- Tree planting programmes outside the campus, programs for plantation of saplings in the campus and Awareness Camps on prevention of pollution are regularly arranged by NSS wing of the college.

f) Hazardous waste management:

- Students are educated to minimize wastes and avoid using plastic products. Dust bins inside the campus have been placed at various points
- The wastes generated from the campus are segregated as biodegradable and non degradable. The bio-degradable wastes are used to prepare manure and non degradable wastes are disposed safely.
- The waste water from the College and hostel collected is treated with Five Lakhs LPD Sewage Treatment Plant and used for Gardening purposes.
- Soak pits are built separately for discharging waste water
- Usage of Polythene bags is banned inside the campus

g) e-waste management:

- The e-wastes like empty toners, cartridges, outmoded computers and electronic items, outdated items related to other ICT equipments were sold as scrap for recycling to outside agencies.

h) Any other:

- The College has Eco Care Club. The club is conducting awareness programmes, arranging seminars and workshops etc

Criterion – VII

7. Innovations and Best Practices

7.1 Innovations introduced during this academic year which have created a positive impact on the functioning of the Institution. Give details.

Karpagam Innovation Centre (KIC) and Karpagam skill Development Centre (KSDC)

Innovation and skill development are twin-engines for the nation's prosperity, competitiveness, and knowledge-based development. Karpagam Innovation Centre (KIC) and Karpagam Skill Development Centre (KSDC) have been established by the Institution to develop leading-edge innovation and skill development for related sectors of Indian industry and society.

The Karpagam Innovation Centre nurtures innovation, and encourages entrepreneurial talents among students, faculty and people of the region. It facilitates inter-disciplinary research and provides incubation facilities to start ups and budding entrepreneurs.

Karpagam Skill Development Centre is to prepare students ready for the industry. It realized that there is a big gap between academic knowledge and technical skills required by the industry. Therefore at KSDC with the excellence set of academic teaching, various technical skills required by the industry/corporate world are also taught to the students. Students here are trained to be practically oriented than just academically proficient.

The Karpagam Innovation Centre stands for openness, collaboration, creativity, and transparency. It makes the innovative ideas to blossom. The centre is designed to inspire the visitors and awaken their creativity.

List of events organized by Karpagam Innovation Centre in the Academic Year 2016-17

Sl. No	Date	Event description
1.	23 rd July 2016	Challenges of a Creative Entrepreneur
2.	29 th and 30 th July 2016	Startup Weekend
3.	10 th Aug 2016	Class of 2020 Orientation Fest
4.	10 th Aug 2016	KCEians Note to Heaven
5.	18 th Aug 2016	Cybercrime Threats and Safety Measures

Sl. No	Date	Event description
6.	-	KIC Idea Challenge
7.	15 th Sep 2016	“Engineers’ Day”- Guinness World Record Attempt for the title “Largest Human Image of a Music Instrument (Guitar).
8.	21 st Oct 2016	Epiphany
9.	16 th and 17 th Dec 2016	IEEE Sponsored International Conference on Engineering and Technology
10.	9 th Feb 2017	DET Talks- An Interactive Session on Animation and Visual Effects
11.	3 rd and 4 th Feb 2017	Dhruva- A National Level Techno Management Cultural Fest and Guinness World Record Attempt for the title “Largest Human Image of a Country (India)”
12.	17 th Feb 2017	Ideathon
13.	5 th Mar 2017	KCEians Cheerio
14.	10 th Mar 2017	Offer Day
15.	12 th Mar 2017	Kalam’17
16.	17 th and 18 th Mar 2017	Fourth IEEE sponsored International Conference on Innovations in Information Embedded and Communication Systems’ 17 (ICIIECS–17)”

Startups Incubated in KIC

- My Laundry Kart
- Design Your Gifts
- Selfie Innovators
- Feel WoW
- Washup
- 1PLUSONE Technologies

Achievements of KIC

- Patents Filed: 16.
- MoU signed with seven companies/ entities namely,
 - E- Cell NIT Trichy
 - Tacitine
 - App Incubator
 - Search N Score
 - By the Satarups
 - ATA Retail
 - Frug Labs Tech Solutional
 - Nello App
- Conducted five IEEE Sponsored International Conferences.
- Conducted Startup Weekend, a great pitching platform for young entrepreneurs in July 2016 in collaboration with Google for Entrepreneurs.
- “Epiphany”- Ideation Bootcamp in association with E-Cell NIT Trichy was organized. E- Cell NIT, Trichy organized Epiphany in ten cities. Our College is one among them, to conduct this on every October.
- On Engineer's Day 15th Sep 2016, organized huge campaign "YES WE CAN" with a crowd of 3110 members and formed a “Largest Human Image of a Music Instrument” - GUITAR. An Attempt for Guinness World Record.
- Vishnu Priya and S. Arunkumar, Students of ECE Department, bagged “Infymaker 2016” award given by Infosys on the category "Social Change Solution" incubated by KIC.
- Contributed valuable ideas for the “Make your City Smart- Coimbatore” contest.
- The Institution in association with NSDC (National Skill Development Centre) has started a Skill Development courses under the scheme of PMKVY (Pradhan Mantri Kaushal Vikas Yojana). Grant aid of Rs.7.5 Lakhs was sanctioned and 74 participants undergone skill development courses on three courses.
- Successfully in planted 12 Clubs to unite and make the students feel good inside the campus.
- Bagged IEEE awards for conducting large number of events for last three years.
- Conducted IDEATHON'17 for the first year students to spark their attitude and made them to find a solution for water scarcity problem.

7.2 Provide the Action Taken Report (ATR) based on the plan of action decided upon at the beginning of the year

- For Broad based participation of IQAC, three additional members were nominated - two from academic and one from Industrialist cum parent totalling 18 members
- Seeking Financial assistance from NAAC for conducting Seminar, a proposal is sent to NAAC on 22nd Feb 2017 on 'Curriculum Design and Development for enhancement of Core Competence in Professional Education'
- To improve the Teaching Learning and Evaluation, Centre for Excellence in Learning and Teaching (CELT) is started during the year. Workshops are arranged periodically for skill enhancements of the faculty
- For the Improvement in Research and Consultancy activities of the Institution, 'KCE Research Committee' was formed which periodically reviews the research process and applying for funding from reputed agencies

7.3 Give two Best Practices of the Institution (*please see the format in the NAAC Self-study Manuals*)

Practice I

(a) Title of the Practice:

Technical Academy for high impact in Teaching-Learning

(b) Objectives of the Practice:

- To develop student friendly teaching methodology for fundamental, analytical and industry focussed courses.
- To bring active participation of the students in the teaching- learning process.
- To teach theory courses integrated with Industry oriented laboratory experiments for clear understanding.
- To identify the real potential of the students and convert them into industry ready with domain exposure.
- To create a healthy competition among the peer groups to bring their best talents out.

(c) The Context:

The Technical Academy is functional from 2012 for the students of B.E/B.Tech programmes. A set of courses to understand fundamental concepts that enable analytical skills by focussing practical/ programming orientation are identified. The lectures are

delivered in an interactive way such that the students actively participate in the teaching-learning process. Hence the learning of theory and practice go concurrently.

(d)The Practice:

The first step is to identify and recruit suitable faculty who are specialized in the above courses. Faculty then prepares course materials and design laboratory experiments/ programmes following an integrated approach. The teaching-learning of these courses through theory and practical classes go together and supplement each other wherever necessary. Activities, tutorials, quizzes and slip tests are introduced wherever necessary making the learning a 'joyful experience' for the students. Take away assignments which require knowledge beyond usual text books are given in such a way that they kindle the minds of the students and make them more creative. Students are also given with mini projects for them to apply theoretical concepts and create working models and prototypes. Application oriented case studies are also given to the students for analysis and solving. Domain specific electives are offered to the students to make them specialists in that area.

(e) Evidence of Success:

- Better academic performance of students in the basic courses handled by Technical Academies.
- Low dropout rates of the students.
- Improved performance in the placement interviews.
- Feedbacks from the recruiters also ensure the success of the system.
- Placement of the students in domain specific companies.
- Increases in the number of students offered internships by the recruiters / companies.

(f) Problems Encountered and Resources Required:

- Identifying domain specific faculty for recruitment.
- Difficulty in matching the expectations of heterogeneous groups of students in a programme.

Practice-II

(a) Title of the Practice:

Internal Academic Audit- Continuous Auditing of the Teaching, Learning and Evaluation Process

Objectives of the Practice:

- Enabling service for attainment of NAAC's stipulations/ objectives in the Institution
- It is a continuous process and catalytic in nature
- Primarily concerned with Teaching – Learning and Evaluation processes
- Extendable to all other curricular / extracurricular activities in case of need
- Helps for quality appraisal to enable the Institution in upgradation of good work
- Duty is to acquire, create, transmit and preserve knowledge besides promote understanding
- Aimed at improvement in pedagogical practices
- Monitor in house academic procedure and suggest remedial steps, if deviations observed
- A value system for promotion of the Institution flagship identity in the country
- Helps to Climb the ladder of excellence gradually

(b) The Context:

- A Team Head supported by a group of field – experts having sufficient exposure in the academics
- Have orientation on the basics of Quality Management System viz; academic process and procedure

(c) The Practice:

- Teaching – Learning and Evaluation processes auditing
- Research / consultancy developments and progress
- Related documents verification
- Spot visit to verify the process of implementation
- Check for effective utilisation of resources
- Documentation of audit trails
- Ensure authentication and reliability of processes subjecting to EAA/ Accreditation

(d) Evidence of Success:

- Ensure systemic approach in Teaching, Learning and Evaluation

- Remedial steps in academic process, when deviations noticed, undertaking continuous monitoring
- Reliable database for staff appraisal
- Database maintenance for AQAR preparation for submitting to NAAC
- Input as feedback for revision of syllabi and courses
- Creating a sense of moral obligation in campus towards the development of major stakeholders viz; students and their progression

(e) Problems Encountered and Resources Required:

- Lack of participation in the process
- Lukewarm response to quality initiatives in the campus
- Lack of leadership and urge to excel in the field by stakeholders
- Lack of broad approach in the learning practice / performance

7.4 Contribution to environmental awareness / protection

- The College is located in a rural area which is surrounded by coconut trees and agricultural lands. The College has adopted various measures to maintain the greeneries of the campus
- The College has a Horticulture Section headed by a Supervisor appointed permanently. This section is under the administrative control of a Manager. There are ten gardeners and ten maintenance workers who were recruited on contract basis to carry out the horticulture work in the campus
- The College maintains eco-friendly and energy conservation in an environment efficient manner. The College campus contains large number of trees and plants to give a pleasant feeling to the staff and students
- The different academic blocks are located at a distance apart. All the blocks are architecturally designed following green building concept with natural lighting and ventilation
- All the buildings have spacious corridors and wide steps for easy mobility

7.5 Whether environmental audit was conducted? Yes

☒
☐

We have engaged M/s ABC Techno Labs India Pvt Ltd, an environmental engineering and consultancy organisation to audit the campus on environmental issues.

7.6 Any other relevant information the Institution wishes to add.

8. Plans of Institution for next year

- NBA accreditation process for non-accredited UG programs
- Outcome Based Education (OBE) and pan campus implementation
- Broad based Internal Academic Audit by taking up by comprehensive reporting and observing delivery methodology in classes.
- Periodical workshops about OBE on skill developments / FDP through CELT.
- Linking Bloom's Taxonomy in an effective manner in TLE process to active academic excellence.
- Changing to "Quality culture" - The way forward in the academic campus
- Voluntary participations of all the stakeholder is quality awareness
- Effective communication in all spheres of the academic process
- Paperless communication using effectively ICT facilities
- Making a Green campus and litter free one
- Conservation of Energy, (scarce) water sources
- Harnessing of renewable sources of energy
- Better focus on extension activities such as
 - Adoption of village
 - Blood donation
 - Helping local body in environmental cleanliness and conservation
 - Support of local government school



Signature of the Director, IQAC
Mr. P. Sundaram
Associate Professor
Department of Mechanical Engineering



Signature of the Chairperson, IQAC

Dr. P. Vijayakumar
Principal
PRINCIPAL
KARPAGAM COLLEGE OF ENGINEERING
COIMBATORE - 32.

Annexure – I

Details of the UGC Recognition

18/20/09/08/08

Spec. April

Ph. 23236351, 23232701, 23237721, 23234116
23235733, 23232317, 23236735, 23239437

UGC Website: www.ugc.ac.in



विश्वविद्यालय अनुदान आयोग
बहादुरशाह जफर मार्ग
नई दिल्ली-110 002

UNIVERSITY GRANTS COMMISSION
BAHADURSHAH ZAFAR MARG
NEW DELHI-110 002

F. 8-83/2008 (CPP-I)

The Registrar,
Anna University,
Coimbatore-641 013 (Tamilnadu).

KARPAGAM COLLEGE OF ENGINEERING COIMBATORE - 32.	
CORRESPONDENT	
CHIEF EXECUTIVE	
PRINCIPAL	✓

April, 2008

MAY 2008

Sub:- List of Colleges prepared under Section 2 (f) of the UGC Act, 1956-Inclusion of New College-

Sir,

I am directed to refer to the letter dated 28.02.2008 received from the Secretary, Karpagam College of Engineering, Coimbatore on the subject cited above and to say that the name of the following College has been included in the list of Colleges prepared under Section 2 (f) of the UGC Act, 1956 under the head Non-Government Colleges teaching upto Post-Graduate Degree:-

Name of the College	Year of Establishment	Remarks
Karpagam College of Engineering, S.F. No. 758 759,760, Othakkal Mandapam, Coimbatore-641 032 (T.N). (On temporary affiliation/Self Financing College)	2000	The College is not eligible to receive Central assistance in terms of rules framed under Section 12 (B) of the UGC Act, 1956.

The Indemnity Bond and other documents submitted in respect of the above College have been accepted by the Commission.

Yours faithfully

(P.K. Sharma)
Under Secretary

Copy to:-

1. The Principal, Karpagam College of Engineering, S.F. No. 758 759,760, Othakkal Mandapam, Coimbatore-641 032 (Tamilnadu). **B.N.P.L. SCHEME**
2. The Secretary, Government of India, Ministry of Human Resource Development, Department of Secondary & Higher Education, Shastri Bhawan, New Delhi-110 001.
3. The Secretary to the Government of Tamilnadu, Department of Higher Education, Chennai (Tamilnadu).
4. Education Officer, UGC; South Eastern Regional Office, P.B. No. 152, A.P.S.F.C. Building, IV Floor, 5-9-194, Chirag Ali Lane, Hyderabad-500 001 (A.P).
5. Publication Officer, UGC-Website, New Delhi.
6. Section Officer, FD-III Section, UGC, New Delhi.
7. All Sections, UGC, New Delhi.
8. Guard file.

(Mrs. Sunita Gulati)
Section Officer



UGC Website: www.ugc.ac.in
Ph. 011-23604414 (CPP-I/Colleges)



Speed Post

विश्वविद्यालय अनुदान आयोग
University Grants Commission
(मानव संसाधन विकास मंत्रालय, भारत सरकार)
Ministry of Human Resource Development,
Govt. of India)

बहादुर शाह जफर मार्ग, नई दिल्ली - 110 002
Bahadur Shah Zafar Marg, New Delhi - 110 002

F. No. 8-538/2015 (CPP-I/C)

The Registrar,
Anna University
Sardar Patel Road, Chennai - 600 025
Tamil Nadu

Received on 10.6.2016
Forwarded to Tamil Nadu
P. H. S.
10/06/16
June, 2016
7 JUN 2016

Sub: - Declaring a College fit to receive Central Assistance under Section 12 (B) of the UGC Act, 1956.

Sir,

I am directed to refer to your letter no. 099/CAI/AU/2016 dated 19.02.2016 on the above subject and to say that it is noted that the following college is **un-aided/self financed** and **permanently** affiliated to **Anna University, Chennai**. The college is already included under Section 2(f) of the UGC Act, 1956 vide this office letter no.F.8-83/2008 (CPP-I), dated April, 2008. I am further to say that the name of the following college has been included in the list of colleges prepared under Section 12 (B) of the UGC Act, 1956 under the head '**Non-Government, self financed** College teaching upto **Master's Degree**':-

Name of the College	Year of Establishment	Remarks
Karpagam College of Engineering, S.F.No. 758,759,760, Othakkal Mandapam, Coimbatore - 641 032, Tamil Nadu.	2000	The College is now declared fit to receive Central assistance in terms of Rules framed under Section 12 (B) of the UGC Act, 1956. However, the College, being a self financing & unaided, would be eligible to receive UGC's support only in respect of teachers & students related schemes as per the decision of the Commission dated 8 th July 2011.

The documents submitted in respect of the above College have been accepted by the University Grants Commission.

Yours faithfully,

(Charan Dass)
Under Secretary

Copy to:-

- ✓ The Principal, Karpagam College of Engineering, S.F.No. 758,759,760, Othakkal Mandapam, Coimbatore - 641 032, Tamil Nadu.
- The Secretary, Government of India, Ministry of Human Resource Development, Department of Higher Education, Shastri Bhawan, New Delhi - 110 001.
- The Secretary, Higher Education Deptt. Government of Tamilnadu, Secretariat, Chennai - 600 009, (Tamil Nadu).
- The Joint Secretary, UGC, South Eastern Regional Office (SERO), P.B. No. 152, A.P.S.F.C. Building, IV Floor, 5-9-194, Chirag Ali Lane, Hyderabad - 500 001, (Telangana).
- Publication Officer (UGC-Website), New Delhi.
- Section Officer (FD-III Section), UGC, New Delhi.
- Guard file.

(M.P. Singh)
Section Officer

Annexure – II

Details of Recognition / Approval by Statutory / Regulatory Bodies



ANNA UNIVERSITY

CHENNAI - 600 025, INDIA

176
14 NOV 2014

REGISTRAR

Phone : (O) 22352161, 22357004

Fax : 91-44-2235 1956

Gram : ANNATECH

E-mail : registrar@annauniv.edu

Lr. No. 467 / CAI / Permanent Affin. / 2014-15

Dated:12.11.2014

To

The Principal,
Karpagam College of Engineering(Autonomous),
Othakkal Mandapam,
Coimbatore South,
Coimbatore – 641 032.

Sir,

Sub: **Permanent Affiliation** - Granting of Permanent Affiliation for the existing programmes – 2014-15 – Reg.

Ref: Your application for the grant of Permanent Affiliation.

I am to inform that under the provisions of section 7.6.2 of the Anna University statutes for affiliation, **Permanent Affiliation** for the existing programme(s) is granted for the following B.E. / B.Tech. / B.Arch. / M.E. / M.Tech. / M.B.A / M.C.A programme(s) with the sanctioned intake indicated against each from the academic year 2014-15 at **Karpagam College of Engineering(Autonomous),** Othakkal Mandapam, Coimbatore South, Coimbatore – 641 032.

Sl. No.	Degree	Programme(s)	Sanctioned intake	Year from which Permanent Affiliation is granted
1.	B.E.	Computer Science and Engineering	120	2014-15
2.	B.E.	Electrical and Electronics Engineering	180	
3.	B.E.	Electronics and Communication Engineering	180	
4.	B.E.	Mechanical Engineering	180	
5.	B.Tech.	Information Technology	120	
6.	M.B.A.	Master of Business Administration	180	

The above said status of Permanent Affiliation is granted subject to the following conditions:

1. The college should obtain extension of approval by the UGC / AICTE / COA / DGS as applicable for every academic year for the above mentioned programmes with the corresponding sanctioned intake. In the absence of extension of approval from the appropriate authority, the Permanent Affiliation now granted will not be valid.

2. In case of increase in intake granted by the appropriate authority for a permanently affiliated programme, the college should apply to the University for the grant of affiliation for the increased intake and orders of the University should be obtained for increasing the intake of the permanently affiliated programme.
3. The college should continue to fulfill the requirements for the above mentioned programmes as per the norms and standards of the University and the laboratory requirements as per the curricula and syllabi of Anna University, Chennai for these programmes.
4. The college should strictly adhere to and comply with the provisions of Anna University Act / Statutes / Regulations norms and standards / guidelines or any other law time being in force.
5. The permanent affiliation granted may be suspended / withdrawn after adopting the procedures laid down in the Regulations, if the college fails to comply with the provisions made in this behalf or the college has failed to observe / implement any of the conditions of affiliation or the college has conducted in a manner which is prejudicial to the interests of University education and/or students.
6. Notwithstanding the granting of Permanent Affiliation, the university reserves its right to inspect the college to verify the continued fulfillment of the affiliation requirements as prescribed by the University for the Programmes concerned.
7. The Permanent Affiliation is granted without prejudice to the right of the University of requiring production of certificate required under Section 37-B of Tamil Nadu Land Reforms (LC) Act 1961 subject to the decision of the Hon'ble High Court of Madras in W.A.No. 3454 / 2002 batch and W.A.No. 3482 / 2002 batch.
8. The Management is directed to submit a duly signed undertaking on a Rs.100/- non-judicial stamp paper to the Registrar, Anna University Chennai, Chennai-600 025, within 15 days from the date of receipt of this letter to the effect that the conditions specified above will be fulfilled.

Yours sincerely



Copy to:

1. The Commissioner of Technical Education, Chennai – 600 025.
2. The Controller of Examinations, Anna University Chennai, Chennai – 600 025.
3. The Director, Student Affairs, Anna University Chennai, Chennai – 600 025.
4. The Director, Academic Courses, Anna University Chennai, Chennai – 600 025.
5. Master File.

REGISTRAR
REGISTRAR
ANNA UNIVERSITY
CHENNAI-600 025



ANNA UNIVERSITY

CHENNAI - 600 025, INDIA

Phone : (O) 22352161, 22357004

Fax : 91-44-2235 1956

Gram : ANNATECH

E-mail : registrar@annauniv.edu

REGISTRAR

Lr No. 02 /AFFLN/CAI//CBE/AU/2016-17/7178

Date: 13-05-2016

To

The Principal,
Karpagam College of Engineering (Autonomous),
Othakkal Mandapam, Coimbatore South, Coimbatore-
641032

Sir,

Sub: AU - AFFILIATION - Provisional Affiliation for the existing course(s) / New course(s) / variation in intake - U.G. / P.G. for the academic year 2016-17 Granted - Reg.

- Ref: 1. Your application for affiliation for the academic year 2016-17
2. AICTE Approval for the academic year 2016-17.

I am to inform that under the provisions of Section 7.6.1 of the Statutes for affiliation of Anna University, Chennai, **Provisional Affiliation** for the continuation of the existing course(s) / new course(s) / variation in intake in the existing course(s) is granted for the following U.G / P.G. courses with the sanctioned intake mentioned against each course for the academic year **2016-17** at **Karpagam College of Engineering (Autonomous), Othakkal Mandapam, Coimbatore South, Coimbatore-641032**.

Sl. No.	Degree	Course(s)	Sanctioned Intake	
			2015-16	2016-17
1	B.E.	Automobile Engineering	60	60
2	B.E.	Civil Engineering	90	90
3	B.E.	Electronics and Instrumentation Engineering	90	90
4	B.E.	Electronics and Telecommunications Engineering	60	60
5	M.C.A.	Master of Computer Applications	120	120
6	M.E.	Communication Systems	18	18
7	M.E.	Mechatronics	18	18
8	M.E.	VLSI Design	18	18

The above said Provisional Affiliation is being granted subject to the fulfillment of the conditions mentioned below:

- Production of Originals of AICTE / COA / DGS approval and all other related documents for verification, whenever demanded by the University.
- Verification by a Committee towards the fulfillment of the conditions mentioned above and the continued fulfillment of the requirements for the above-mentioned course(s) as per the norms and standards of AICTE / University and the laboratory requirements as per the curricula and syllabi of Anna University, Chennai for the above courses. In the event of any violation/infringement of the above said conditions and / or the provisions of Anna University, Chennai Act / Statutes / Regulations, AICTE Act, norms & standards / regulations / guidelines or any other law being in force, suitable action including suspension / withdrawal of affiliation of course(s) may be initiated against the college.
- Students should not be admitted for the above course(s) for the next academic year without obtaining

the order of continuation of provisional affiliation for the next academic year from the University.

The Provisional Affiliation is granted without prejudice to the right of the University of requiring production of certificate required under Section 37-B of TAMILNADU Reforms (LC) Act 1961 subject to the decision of the Hon'ble High Court of Madras in W.A. No. 3454 / 2002 batch and W.A. No. 3482 / 2002 batch.



Yours sincerely,


REGISTRAR
ANNA UNIVERSITY
CHENNAI-600 025

Copy to:

1. The Director of Technical Education, DOTE campus, Chennai - 600 025.
2. The Regional Officer, Southern Regional Office, AICTE, 26, Haddows Road, Shastri Bhawan, Chennai 600 006.
3. Master file.



All India Council for Technical Education
(A Statutory body under Ministry of HRD, Govt. of India)

7th Floor, Chandralok Building, Janpath, New Delhi- 110 001
PHONE: 23724151/52/53/54/55/56/57 FAX: 011-23724183 www.aicte-india.org

F.No. Southern/1-2811303399/2016/EOA

Date: 30-Apr-2016

To,

The Principal Secretary
(Higher Education) Govt. of Tamil Nadu,
N. K. M. Bld. 6th Floor Secretariat,
Chennai-600009

Sub: Extension of approval for the academic year 2016-17

Ref: Application of the Institution for Extension of approval for the academic year 2016-17

Sir/Madam,

In terms of the provisions under the All India Council for Technical Education (Grant of Approvals for Technical Institutions) Regulations 2012 notified by the Council vide notification number F-No.37-3/Legal/2012 dated 27/09/2012 and norms standards, procedures and conditions prescribed by the Council from time to time, I am directed to convey the approval to

Regional Office	Southern	Application Id	1-2811303399
Name of the Institute	KARPAGAM COLLEGE OF ENGINEERING	Permanent Id	1-4285391
Name of the Society/Trust	KARPAGAM CHARITY TRUST	Institute Address	SF NO : 758, 759, 760 OTHAKKAL MANDAPAM COIMBATORE - 641 032, COIMBATORE, COIMBATORE, Tamil Nadu, 641032
Institute Type	Unaided - Private	Society/Trust Address	14-A LIC COLONY, KURUCHI, COIMBATORE- 641021.,COIMBATORE,COIMBATORE,Tamil Nadu,641021

Opted for change from Women to Co-ed and Vice versa	No	Opted for change of name	No	Opted for change of site	No
Change from Women to Co-ed approved and Vice versa	Not Applicable	Change of name Approved	Not Applicable	Change of site Approved	Not Applicable

To conduct following courses with the intake indicated below for the academic year 2016-17

Application Id: 1-2811303399			Course	Full/Part Time	Affiliating Body	Intake 2015-16	Intake Approved for 2016-17	NRI Approval status	PIO / FN / Gulf quota Approval status	Foreign Collaboration/Twinning Program Approval status
Program	Shift	Level								
ENGINEERING AND	1st Shift	POST GRADUATE	COMMUNICATION SYSTEMS	FULL TIME	Anna University, Chennai	18	18	NA	NA	NA

Application Number: 1-2811303399

Note: This is a Computer generated Report.No signature is required.

Printed By : ae885291

Page 1 of 4
Letter Printed On:3 May 2016



All India Council for Technical Education
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7th Floor, Chandralok Building, Janpath, New Delhi- 110 001
PHONE: 23724151/52/53/54/55/56/57 FAX: 011-23724183 www.aicte-india.org

TECHNOLOGY		DUAL								
ENGINEERING AND TECHNOLOGY	1st Shift	POST GRADUATE	MECHATRONICS	FULL TIME	Anna University, Chennai	18	18	NA	NA	NA
ENGINEERING AND TECHNOLOGY	1st Shift	POST GRADUATE	VLSI	FULL TIME	Anna University, Chennai	18	18	NA	NA	NA
ENGINEERING AND TECHNOLOGY	1st Shift	UNDER GRADUATE	AUTOMOBILE ENGINEERING	FULL TIME	Anna University, Chennai	60	60	NA	NA	NA
ENGINEERING AND TECHNOLOGY	1st Shift	UNDER GRADUATE	CIVIL ENGINEERING	FULL TIME	Anna University, Chennai	90	90	NA	NA	NA
ENGINEERING AND TECHNOLOGY	1st Shift	UNDER GRADUATE	COMPUTER SCIENCE AND ENGINEERING	FULL TIME	Anna University, Chennai	120	120	NA	NA	NA
ENGINEERING AND TECHNOLOGY	1st Shift	UNDER GRADUATE	ELECTRICAL AND ELECTRONICS ENGINEERING	FULL TIME	Anna University, Chennai	180	180	NA	NA	NA
ENGINEERING AND TECHNOLOGY	1st Shift	UNDER GRADUATE	ELECTRONICS AND INSTRUMENTATION ENGINEERING	FULL TIME	Anna University, Chennai	90	90	NA	NA	NA
ENGINEERING AND TECHNOLOGY	1st Shift	UNDER GRADUATE	ELECTRONICS AND TELECOMMUNICATIONS ENGINEERING	FULL TIME	Anna University, Chennai	60	60	NA	NA	NA
ENGINEERING AND TECHNOLOGY	1st Shift	UNDER GRADUATE	ELECTRONICS & COMMUNICATION ENGG	FULL TIME	Anna University, Chennai	180	180	NA	NA	NA
	1st	UNDER	INFORMATION	FULL	Anna	120	120	NA	NA	NA

Application Number: 1-2811303399

Note: This is a Computer generated Report.No signature is required.
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Page 2 of 4
Letter Printed On:3 May 2016



All India Council for Technical Education
(A Statutory body under Ministry of HRD, Govt. of India)

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PHONE: 23724151/52/53/54/55/56/57 FAX: 011-23724183 www.aicte-india.org

ENGINEERING AND TECHNOLOGY	Shift	ER GRADUATE	TECHNOLOGY	TIME	University, Chennai					
ENGINEERING AND TECHNOLOGY	1st Shift	UNDER GRADUATE	MECHANICAL ENGINEERING	FULL TIME	Anna University, Chennai	180	180	NA	NA	NA
MANAGEMENT	1st Shift	POST GRADUATE	MASTERS IN BUSINESS ADMINISTRATION	FULL TIME	Anna University, Chennai	180	180	NA	NA	NA
MCA	1st Shift	POST GRADUATE	MASTERS IN COMPUTER APPLICATIONS	FULL TIME	Anna University, Chennai	120	120	NA	NA	NA

The above mentioned approval is subject to the condition that KARPAGAM COLLEGE OF ENGINEERING shall follow and adhere to the Regulations, guidelines and directions issued by AICTE from time to time and the undertaking / affidavit given by the institution along with the application submitted by the institution on portal.

In case of any differences in content in this Computer generated Extension of Approval Letter, the content/information as approved by the Executive Council / General Council as available on the record of AICTE shall be final and binding.

Strict compliance of Anti-Ragging Regulation:- Approval is subject to strict compliance of provisions made in AICTE Regulation notified vide F. No. 37-3/Legal/AICTE/2009 dated July 1, 2009 for Prevention and Prohibition of Ragging in Technical Institutions. In case Institution fails to take adequate steps to Prevent Ragging or fails to act in accordance with AICTE Regulation or fails to punish perpetrators or incidents of Ragging, it will be liable to take any action as defined under clause 9(4) of the said Regulation.

Note: Validity of the course details may be verified at www.aicte-india.org

Prof. Alok Prakash Mittal
Member Secretary, AICTE

Copy to:

- The Regional Officer,**
All India Council for Technical Education
Shastri Bhawan 26, Haddows Road
Chennai - 600 006, Tamil Nadu
- The Director Of Technical Education,**
Tamil Nadu
- The Registrar,**
Anna University, Chennai
- The Principal / Director,**
KARPAGAM COLLEGE OF ENGINEERING
SF NO : 758, 759, 760

Application Number: 1-2811303399
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Page 3 of 4
Letter Printed On:3 May 2016



All India Council for Technical Education
(A Statutory body under Ministry of HRD, Govt. of India)

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PHONE: 23724151/52/53/54/55/56/57 FAX: 011-23724183 www.aicte-india.org

OTHAKKAL MANDAPAM
COIMBATORE - 641 032,
COIMBATORE, COIMBATORE,
Tamil Nadu, 641032

5. **The Secretary / Chairman,**
KARPAGAM CHARITY TRUST
14-A, LIC COLONY,
KURUCHI,
COIMBATORE-641021.,
COIMBATORE, COIMBATORE,
Tamil Nadu, 641021

6. **Guard File(AICTE)**

Application Number: 1-2811303399
Note: This is a Computer generated Report.No signature is required.
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Letter Printed On:3 May 2016

NATIONAL BOARD OF ACCREDITATION

NBCC Place, East Tower, 4th Floor, Bhisham Pitamah Marg,
Pragati Vihar, New Delhi-110 003
Tel: +91 11 2436 0620-22, 2436 0654 Telefax: +91 11 2436 0682
Website: www.nbaiind.org



F.No.33-131/2010-NBA

Dated: 15-04-2016

To,

The Principal
Karpagam College of Engineering
S.F.No 758.759.760, Othakkal Mandapam,
Coimbatore-641032
Tamil Nadu.
Ph: 0422 - 2619030
Email: ankhod@gmail.com ; chairmankce@gmail.com

Subject: Accreditation status of programmes applied by Karpagam College of Engineering, S.F.No 758.759.760, Othakkal Mandapam, Coimbatore-641032, Tamil Nadu.

Sir,

This has reference to your application dated 18-04-2015 in Tier-I format seeking accreditation by National Board of Accreditation to UG Engineering programmes offered by Karpagam College of Engineering, S.F.No 758.759.760, Othakkal Mandapam, Coimbatore-641032, Tamil Nadu.

2. An Expert Team conducted on-site evaluation of the programmes during 18th – 20th December, 2015. The report submitted by the Expert Team was considered by the concerned Committees constituted for the purpose in NBA. The competent authority in NBA has approved the following accreditation status to the programmes as given in the table below:

Sl. No.	Name of the Programmes (UG)	Basis of Evaluation	Accreditation Status	Period of validity w.e.f. 01.01.2016	Remarks
(1)	(2)	(3)	(4)	(5)	(6)
1.	Computer Science & Engineering	Tier-I Document	Provisionally Accredited	2 years	Accreditation status granted is valid for the period indicated in Col.5 or till the program has the approval of the competent authority, whichever is earlier
2.	Information Technology		Provisionally Accredited	2 years	
3.	Electrical & Electronics Engineering		Provisionally Accredited	2 years	
4.	Electronics & Communication Engineering		Provisionally Accredited	2 years	

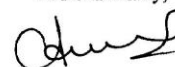
3. It may be noted that only students who graduate during the validity period of accreditation, will be deemed to have graduated with an NBA accredited degree.

4. The programs have been granted Provisional Accreditation for 2 years. As such, Karpagam College of Engineering, S.F.No 758.759.760, Othakkal Mandapam, Coimbatore-641032, Tamil Nadu is required to submit the Compliance report after 18 months. It may require submission of pre-qualifier before sending the Compliance report for granting further Accreditation. The process for submitting Pre-Qualifiers and Compliance report has been notified on the website of National Board of Accreditation.

Contd/...

5. The accreditation status awarded to the programmes as indicated in the above table does not imply that the accreditation has been granted to Karpagam College of Engineering, S.F.No 758.759.760, Othakkal Mandapam, Coimbatore-641032, Tamil Nadu as a whole. **As such the Institution should nowhere along with its name including on its letter head etc. write that it is accredited by NBA because it is programme accreditation and not Institution accreditation. If such an instance comes to NBA's notice, this will be viewed seriously.** Complete name of the programme(s) accredited, level of programmes and the period of validity of accreditation, as well as the date from which the accreditation is effective should be mentioned unambiguously whenever and wherever it is required to indicate the status of accreditation by NBA.
6. The accreditation status of the above programmes is subject to change on periodic review, if needed by the NBA. It is desired that the relevant information in respect of accredited programmes as indicated in the table in paragraph 2, appears on the website and information bulletin of the Institute.
7. The accreditation status awarded to the programmes as indicated in table in paragraph 2 above is subject to maintenance of the current standards during the period of accreditation. If there are any changes in the status (major changes of faculty strength, organizational structure etc.), the same are required to be communicated to the NBA, with an appropriate explanatory note.
8. Copy of the Report of Chairman of the Visiting Team and Evaluators' Reports in respect of the above programmes are also enclosed.
9. If the Institute is not satisfied with the decision of NBA, it may appeal within thirty days of receipt of this communication giving reasons for the same and by paying the requisite fee.

Yours faithfully,



(Dr. Anil Kumar Nassa)
Member Secretary

Encls: 1.Copy of Report of Chairman of the Visiting Team.
2.Copies of Expert Reports of the Visiting Team.

Copy to:

1. The Secretary,
Department of Technical Education
Government of Tamil Nadu, Chennai - 600 009,
Tamil Nadu
2. The Registrar,
Anna University
Sardar Patel Road, Old Highways Building,
Guindy, Chennai- 600025, Tamil Nadu
3. Accreditation File
4. Master Accreditation file of the State

Annexure – III

Feedback Analysis (Sample Only)

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING
ALUMNI SURVEY-ANALYSIS
2012-2016 BATCH

Percentage of Responses

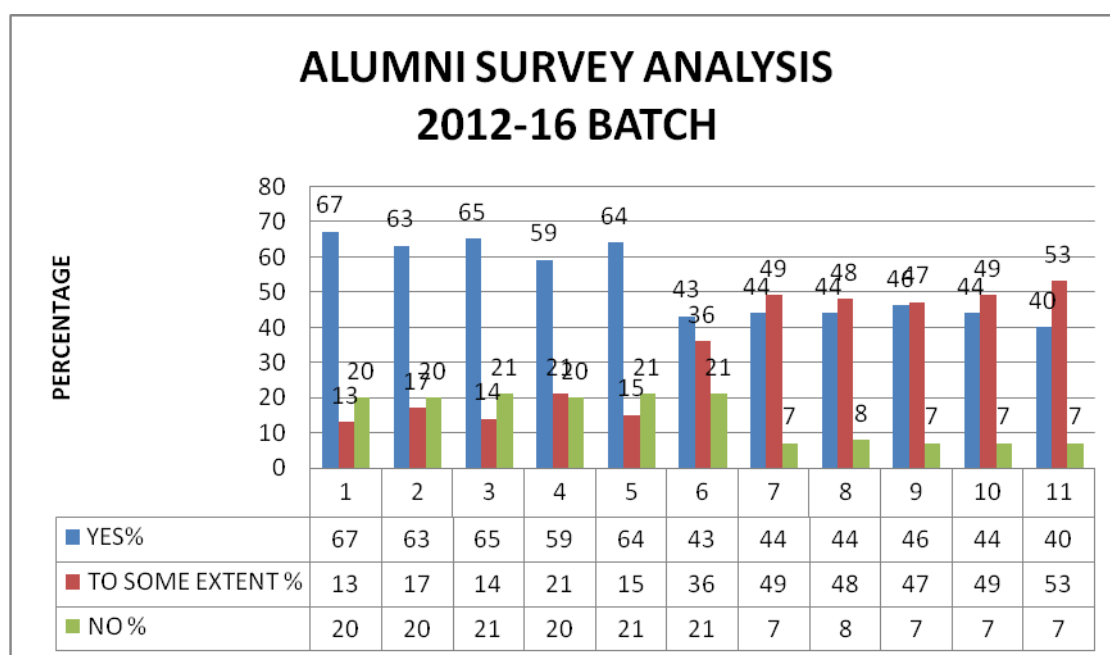
Total No of Responses Received: 100

S.No.	Questions	Assessment Method And Weightage(in %)		
		Yes (%)	To some extent (%)	No (%)
1	Are you able to analyze engineering problems with the knowledge you gained?	67	13	20
2	Are you able to identify, formulate and solve engineering problems?	63	17	20
3	Are you able to apply, use techniques, skills and modern engineering tools necessary for engineering practices?	65	14	21
4	Are you able to function in multi disciplinary projects and multi disciplinary teams?	59	21	20
5	Were you able to design and conduct experiments, analysis and interpret data given by your faculty which were not in the syllabus, and analyse and interpret data?	64	15	21
6	Were you able to undertake project works which were useful to society?	43	36	21
7	Are you fully aware your responsibility as a professional engineer?	44	49	7
8	Have you got sufficient knowledge other know in you domain so that we can take up multidisciplinary projects?	44	48	8
9	Are you aware of the latest problems and solutions concerned with your domain?	46	47	7
10	Have you acquired sufficient managerial skill to manage and situation which rose while graduating?	44	49	7
11	Are you able to communicate easily and effectively?	40	53	7

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

ALUMNI SURVEY ANALYSIS

2012-2016 BATCH



DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

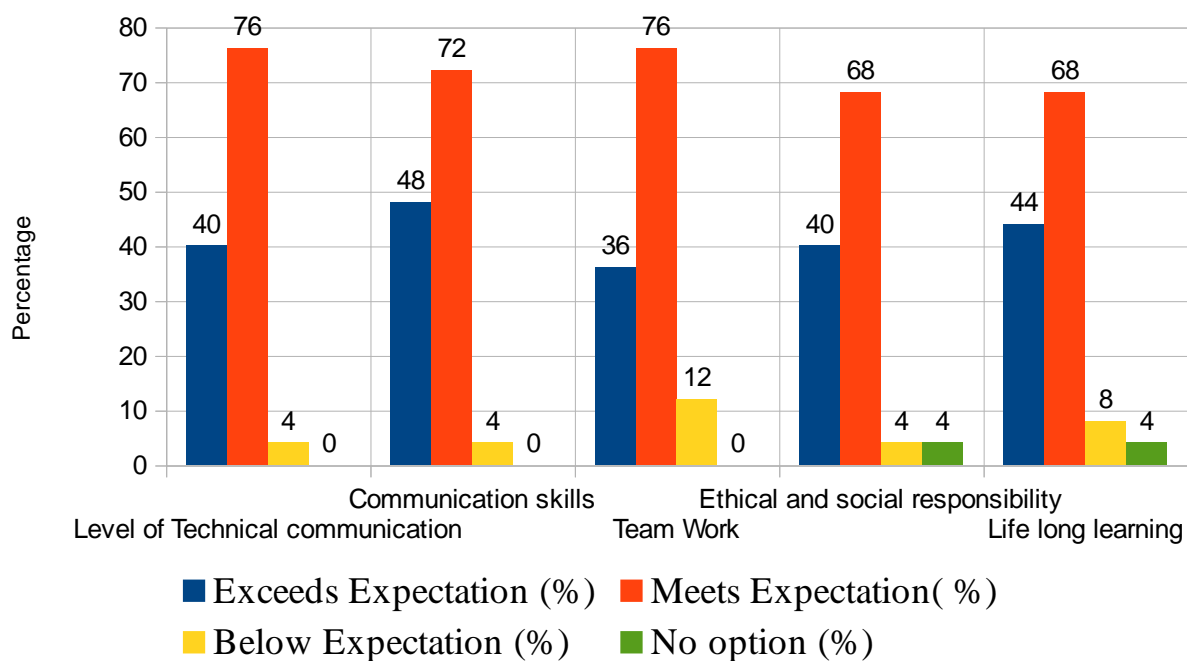
EMPLOYER SURVEY

2012-2016 BATCH

S.No	Key Component	Exceeds Expectation (%)	Meets Expectation (%)	Below Expectation (%)	No Option (%)
1.	Levels of Technical Contribution	40	76	4	0
2.	Communication skills	48	72	4	0
3.	Team Work	36	76	12	0
4.	Social and Ethical Responsibility	40	68	4	4
5.	Lifelong Learning	44	68	8	4

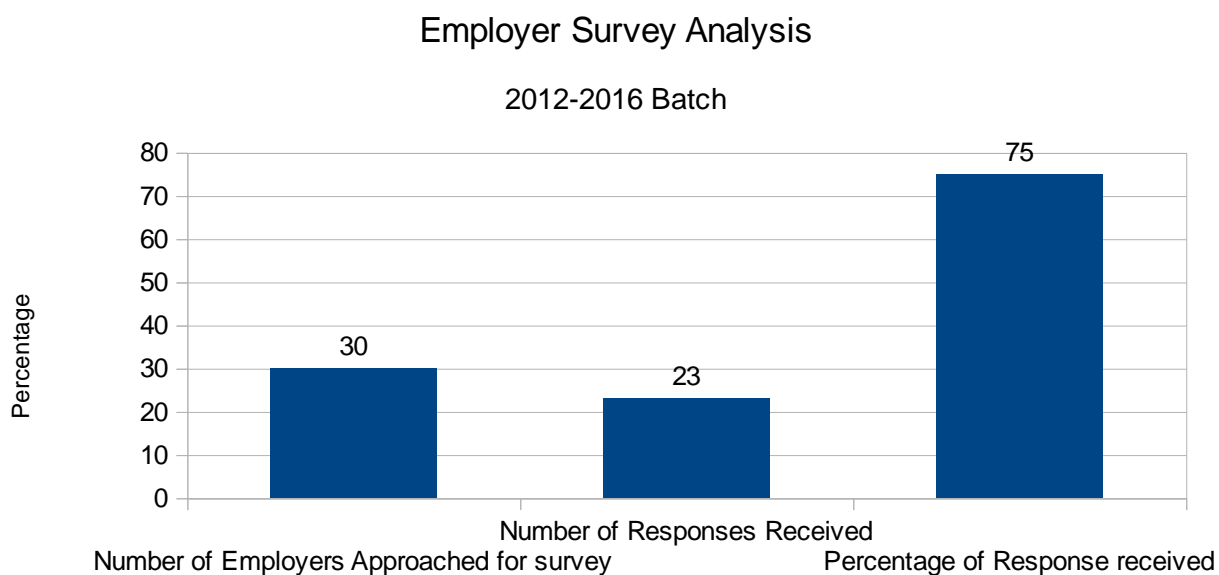
Employer Survey

2012-2016 Batch



DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

EMPLOYER SURVEY ANALYSIS



DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING
EXIT SURVEY ANALYSIS
2013-2017 BATCH

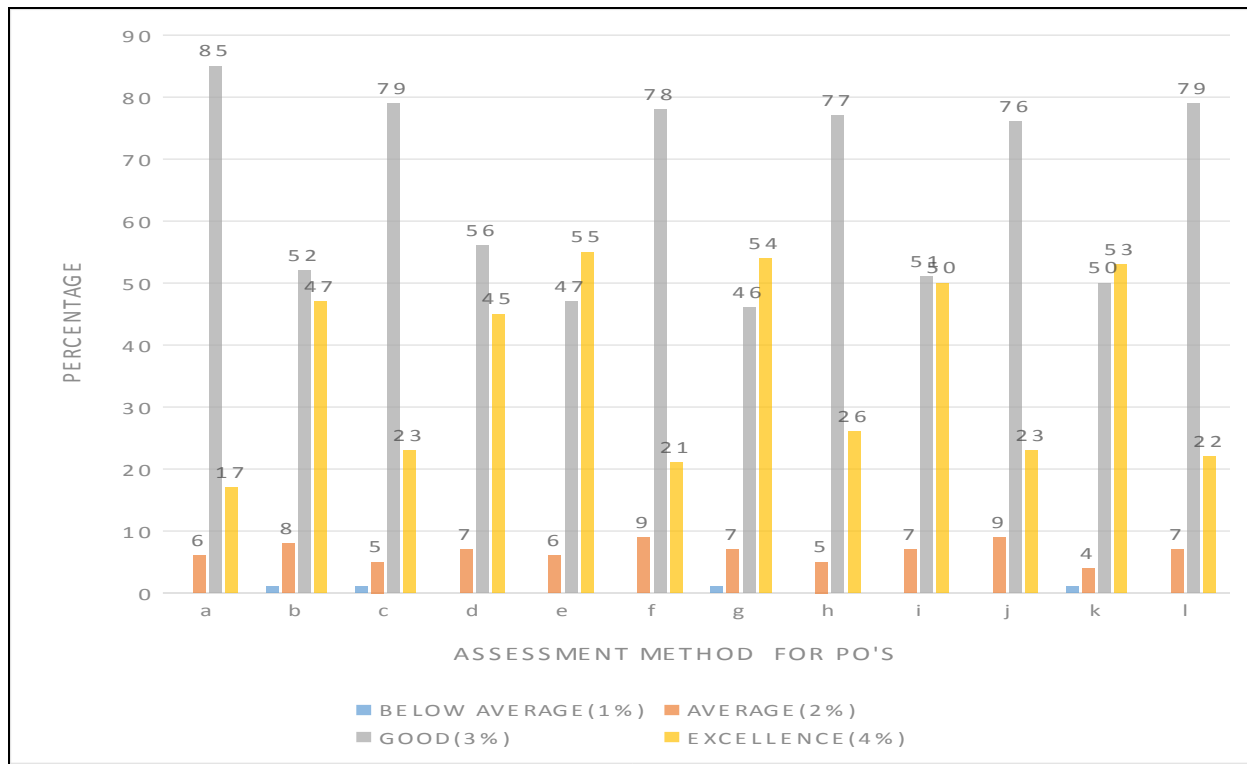
TOTAL NUMBER OF RESPONSES-108

S.N O	POs	Assessment Method And Weightage					PO Attain ment %
		1	2	3	4	Weig hted avera ge	
1	Ability to apply knowledge of mathematics, science and engineering principles to the problems in Computer Science and Engineering domain.	0	6	85	17	3.10	70
2	Ability to design and conduct experiments, as well as to analyze and interpret data.	1	8	52	47	3.34	80
3	Ability to use the techniques, skills, and modern engineering tools necessary for engineering practice.	1	5	79	23	3.15	70
4	Ability to design a system, component, or process to meet desired goals in their domain considering environmental, social and ethical aspects.	0	7	56	45	3.35	80
5	Ability to function on multidisciplinary teams.	0	6	47	55	3.45	80
6	Ability to identify, formulate and solve engineering problems.	0	9	78	21	3.11	70
7	Understanding of professional and ethical responsibility.	1	7	46	54	3.42	80
8	Ability to communicate effectively.	0	5	77	26	3.19	70
9	Ability to understand the impact of software solutions in a global, environmental and societal context.	0	7	51	50	3.40	80
10	Ability to realize the need to engage in life-long learning.	0	9	76	23	3.13	70
11	Knowledge of contemporary issues.	1	4	50	53	3.44	80
12	Ability to manage the projects in the relevant areas of Computer Science and Engineering and enhance research through engineering and management principles.	0	7	79	22	3.14	70

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

EXIT SURVEY ANALYSIS

2013-2017 BATCH



Sample of Feedback Analysis by Students about Faculty 2016-17 Odd Semester

Class Wise Report

Department		ETE		Section						A					
Semester		I		Batch						2016					
STAFF ID	STAFF NAME	SUBJECT CODE	SUBJECT NAME	Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	COUNT	AVG
KE0742	BRINDHA S	15OA13	BUSINESS ENGLISH	4.2	3.8	3.87	3.87	3.4	3.93	4.07	3.4	4.4	3.93	15	3.89
KE0743	MADHU RAGHUVANSHI	15OA11	TECHNICAL ENGLISH	4	3.46	3.05	3.59	3.28	2.87	3.87	3.41	3.87	3.33	39	3.47
KE0577	ARIVUMANI	15OB01	CALCULUS AND ITS APPLICATIONS	4.71	3.88	4.61	4.13	3.89	4.21	4.39	3.89	4.48	4.27	56	4.25
KE0707	MANIMARAN S	15AC01	C PROGRAMMING I	4.39	4.29	4.18	3.84	4.09	4.36	4.29	3.54	4.23	4.05	56	4.13
KE0729	SAJEESH S	15TC05	ELECTRIC CIRCUITS	4.51	3.32	3.54	3.68	3.95	3.68	4.23	3.7	3.98	3.89	57	3.85
KE0655	DR Y DOMINIC RAVICHANDRAN	15OA03	ENVIRONMENTAL SCIENCE FOR ENGINEERS	3.95	3.55	3.79	3.27	3.66	3.66	3.55	3.46	3.77	3.32	56	3.6
KE0716	ESWARAMOORTHY V	15OB22	PHYSICS FOR ELECTRICAL SCIENCES	4.68	4.56	4.51	4.37	4.23	4.44	4.56	4.19	4.51	4.25	57	4.43

QUESTION NO.	QUESTIONS
1	Punctual to the Class and Handling the class for entire Duration.
2	Presentation, Clarity of expression and Voice Modulation.
3	Completion of Syllabus in time.
4	Clarity of Writing in the Board.
5	Review of previous class subjects content.
6	Control of students in the class.
7	Clearing doubts in the class and outside.
8	Motivating and Encouraging students to use Library for Journals / Ref. Books.
9	Treating every student equally without favoritism.
10	Fulfillment of expectation of the course (over all satisfaction).

P. Sri
16/08/16

Sample of Feedback Analysis by Students about Faculty 2016-17 Even Semester

Karpagam College of Engineering

Class Wise Report

Department		AUTO		Section										A	
Semester		8		Batch										2013	
STAFF ID	STAFF NAME	SUBJECT CODE	SUBJECT NAME	Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	COUNT	AVG
KE0145	GANESHMURALI J	12A801	AUTOMOTIVE SAFETY	4.7	4.45	4.4	4.4	4.5	4.7	4.35	4.55	4.65	4.6	20	4.53
KE0687	KONDUSAMY V	12A007	COMMERCIAL FLEET OPERATIONS	4.75	4.6	4.55	4.65	4.6	4.6	4.75	4.8	4.7	4.65	20	4.67
KE0689	PRAKASH S	12A011	TOTAL PRODUCTIVE MAINTENANCE	4.6	4.6	4.6	4.45	4.45	4.55	4.45	4.5	4.55	4.5	20	4.53

QUESTION NO.

- 1
- 2
- 3

QUESTIONS

- Punctual to the Class and Handling the class for entire Duration.
- Presentation, Clarity of expression and Voice Modulation.
- Completion of Syllabus in time.

P. Jini
02/12/16