



Yearly Status Report - 2018-2019

Part A

Data of the Institution

| | |
|---|--|
| 1. Name of the Institution | KARPAGA VINAYAGA COLLEGE OF ENGINEERING AND TECHNOLOGY |
| Name of the head of the Institution | P. Kasinatha Pandian |
| Designation | Principal |
| Does the Institution function from own campus | Yes |
| Phone no/Alternate Phone no. | 044-27565970 |
| Mobile no. | 9524008938 |
| Registered Email | kvcet@live.com |
| Alternate Email | pkpandian.kvcet@gmail.com |
| Address | GST Road, Chinna Kolambakkam, Padalam - 603308, Madhuranthagam (Tk.), Chengalpet (Dt.) |
| City/Town | Kancheepuram |
| State/UT | Tamil Nadu |

| Pincode | 603308 | | | | | | | | | | | | | | | | | | |
|--|---|-----------------|-----------------------|---------------------------------------|-----------|-------|-------|------|-----------------------|----------|--|-------------|-----------|-----------------------------------|--|--|--|--|--|
| 2. Institutional Status | | | | | | | | | | | | | | | | | | | |
| Affiliated / Constituent | Affiliated | | | | | | | | | | | | | | | | | | |
| Type of Institution | Co-education | | | | | | | | | | | | | | | | | | |
| Location | Rural | | | | | | | | | | | | | | | | | | |
| Financial Status | private | | | | | | | | | | | | | | | | | | |
| Name of the IQAC co-ordinator/Director | Dr. D. Saravanan | | | | | | | | | | | | | | | | | | |
| Phone no/Alternate Phone no. | 04427565486 | | | | | | | | | | | | | | | | | | |
| Mobile no. | 9551841399 | | | | | | | | | | | | | | | | | | |
| Registered Email | saravanan.danapal@gmail.com | | | | | | | | | | | | | | | | | | |
| Alternate Email | principaloffice.kvcet@gmail.com | | | | | | | | | | | | | | | | | | |
| 3. Website Address | | | | | | | | | | | | | | | | | | | |
| Web-link of the AQAR: (Previous Academic Year) | https://www.kvcn.edu.in/naac-3/# | | | | | | | | | | | | | | | | | | |
| 4. Whether Academic Calendar prepared during the year | Yes | | | | | | | | | | | | | | | | | | |
| if yes,whether it is uploaded in the institutional website: Weblink : | https://www.kvcn.edu.in/naac-3/# | | | | | | | | | | | | | | | | | | |
| 5. Accreditation Details | | | | | | | | | | | | | | | | | | | |
| <table border="1"> <thead> <tr> <th rowspan="2">Cycle</th> <th rowspan="2">Grade</th> <th rowspan="2">CGPA</th> <th rowspan="2">Year of Accreditation</th> <th colspan="2">Validity</th> </tr> <tr> <th>Period From</th> <th>Period To</th> </tr> </thead> <tbody> <tr> <td colspan="6" style="text-align: center; color: red;">No Data Entered/Not Applicable!!!</td> </tr> </tbody> </table> | | | | | | Cycle | Grade | CGPA | Year of Accreditation | Validity | | Period From | Period To | No Data Entered/Not Applicable!!! | | | | | |
| Cycle | Grade | CGPA | Year of Accreditation | Validity | | | | | | | | | | | | | | | |
| | | | | Period From | Period To | | | | | | | | | | | | | | |
| No Data Entered/Not Applicable!!! | | | | | | | | | | | | | | | | | | | |
| 6. Date of Establishment of IQAC | 01-Jun-2017 | | | | | | | | | | | | | | | | | | |
| 7. Internal Quality Assurance System | | | | | | | | | | | | | | | | | | | |
| Quality initiatives by IQAC during the year for promoting quality culture | | | | | | | | | | | | | | | | | | | |
| Item /Title of the quality initiative by IQAC | | Date & Duration | | Number of participants/ beneficiaries | | | | | | | | | | | | | | | |

| | | |
|--------------------------------------|-------------------|------|
| Outreach Programmes | 20-Aug-2018 6 | 1100 |
| PMKVY-TI Programme | 29-Sep-2018 88 | 250 |
| Mini Projects | 21-Nov-2018 61 | 350 |
| EDC | 25-Dec-2018 89 | 650 |
| Initiative for New Research Projects | 15-Nov-2019 92 | 10 |
| View File | | |

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

| Institution/Department/Faculty | Scheme | Funding Agency | Year of award with duration | Amount |
|--------------------------------|-----------------------|----------------|-----------------------------|--------|
| Biomedical Engineering | Project | MoES | 2018 1095 | 885000 |
| Biomedical Engineering | Project | ICMR | 2018 730 | 194800 |
| Biomedical Engineering | Seminar | DBT | 2018 2 | 100000 |
| Biomedical Engineering | Seminar | CSIR | 2018 2 | 30000 |
| Biomedical Engineering | Conference | AERB | 2018 2 | 25000 |
| Biotechnology | Seminar cum Workshop | NABARD | 2018 2 | 100000 |
| Biotechnology | Certificate Programme | NCOF | 2018 30 | 300000 |
| Mechanical Engineering | EAC | DST-NIMAT | 2018 15 | 100000 |
| Biotechnology | Project | TNSCST | 2019 180 | 7500 |
| View File | | | | |

| | |
|--|---------------------------|
| 9. Whether composition of IQAC as per latest NAAC guidelines: | Yes |
| Upload latest notification of formation of IQAC | View File |
| 10. Number of IQAC meetings held during the year : | 3 |
| The minutes of IQAC meeting and compliances to the decisions have been uploaded on the institutional website | Yes |

| | |
|---|---------------------------|
| Upload the minutes of meeting and action taken report | View File |
| 11. Whether IQAC received funding from any of the funding agency to support its activities during the year? | No |
| 12. Significant contributions made by IQAC during the current year(maximum five bullets) | |
| Faculty Members have been encouraged to apply for project grants under BIRAC and faculty members were called for presentation before the committee at KIIT, Bhubaneswar | |
| Based on IQAC's effort Rs. 6.62 lakh for organizing various programme and Rs. 10.76 lakh for Research project have been received from DBT, MoES, ICMR, DST-NIMAT etc., for organizing various programme | |
| Industry-Institute Partnership Cell has initiated more programme in collaboration with industries | |
| Applied for MSME incubation centre | |
| Applied for financial assistance for various programme under DST-NIMAT project | |

[View File](#)

13. Plan of action chalked out by the IQAC in the beginning of the academic year towards Quality Enhancement and outcome achieved by the end of the academic year

| Plan of Action | Achivements/Outcomes |
|---|--|
| To apply more programmes under DSTNIMAT programmes | EAC is approved by DSTNIMAT sum of Rs. 100000 received |
| To submit more number of proposal for financial assistance seminars / conferences / workshops | Rs. 5.35 lakh have received from CSIR, DBR, AERB, NABARD, ICOF for organizing various programmes |
| To apply more number of proposal by students and faculty to various funding agencies for projects | 3 projects worth Rs 24.47 lakh have been approved by MoES, ICMR and TNSCST |
| To create incubation centre | Application submitted to the MSME incubation centre |
| To encourage research by providing seed money to faculty from the institute | Rs. 5.80 lakh have been provided as seed money for 10 number of research projects |
| To encourage students to undergo online courses offered by NPTEL and other agencies | More than 120 students have registered for online certificate courses |
| To encourage students to register for internship to enhance their practical knowledge | 652 students have attended internship in various industries |

[View File](#)

14. Whether AQAR was placed before statutory body ?

Yes

Name of Statutory Body

Meeting Date

Governing Council

04-Dec-2019

15. Whether NAAC/or any other accredited body(s) visited IQAC or interacted with it to assess the functioning ?

No

16. Whether institutional data submitted to AISHE:

Yes

Year of Submission

2018

Date of Submission

20-Dec-2018

17. Does the Institution have Management Information System ?

No

Part B

CRITERION I – CURRICULAR ASPECTS

1.1 – Curriculum Planning and Implementation

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

We, Karpaga Vinayaga College of Engineering and Technology adopted the curriculum prescribed by the Anna University, Chennai and implemented the regulations and guidelines as per changes made time to time. The curriculum is effectively implemented to achieve Vision and Mission of the Institute. The institution has good infrastructure for enabling good communication in the context of content delivery. COMMITTEE FOR EFFECTIVE IMPLEMENTATION The college has different committees which prepare guidelines and frameworks to suit requirements of different courses at the departmental level. The college academic committee prepares the academic calendar, timetable and workload of the individual departments and provide directions as per IQAC. The committee is regularly monitoring the effectiveness of the same throughout the semester. Academic and Administrative Audit (AAA) committee will screen the lesson plan, course materials and question banks prepared by the faculty, followed by issue the contents to the students. The evaluation schemes are planned and monitoring for continuous evaluation. The systems have been structured to help maintain uniformity, transparency, academic standards and quality during internal assessment of students. TEACHING AND EVALUATION PROCESS Each department has sub-committee to implement the teaching and learning process. The department level plan is prepared in advance for execution of the course. Each faculty has focused on their subjects to deliver the content in the class room and requirements like AV teaching aids, online simulation, models etc., are discussed. The institution has well planned to meet the curriculum gap, and the departments have conducted guest lectures and invited the renowned professors,

industry persons to fulfill the gap. Apart from this, value added courses, workshops, seminars, industrial visits were organized to meet the curriculum gap. The institution has adopted "outcome based approach" for the effective delivery of the curriculum. In this concern, the setting of the assessment question papers is designed to confirm the attainment of course outcomes. Faculty members are encouraged to do applied research projects and to organize conferences / seminars / workshops and to submit proposals to various funding agencies and also sponsored to attend the technical events. THE SUPPORTIVE INFRASTRUCTURE Supportive infrastructure and facilities are continuously being upgraded to the needs of changing curriculum and pedagogy. The college has well equipped laboratories and classrooms. The college library is well-stocked with online facility to access the e-books, journals and online databases.

MONITORING PROCESS To ensure the course outcome of the subjects, to assess the continuous evaluation (assignment, class test and seminar) and internal assessment (unit test and model exam) is carried out. Currently, the curriculum is Choice Based Credit System (CBCS). To meet the curriculum, as per the regulations, tutorial hours are essential for theory subjects. Learning process of students is tested with practical classes. **MENTORING SYSTEM** Institution have well framed mentoring systems. This system enables to provide the feed back to the teachers related to curricular aspects, administrative matters and personal issues. Based on the feedback, mentors will counsel the students and also forwarded to next

1.1.2 – Certificate/ Diploma Courses introduced during the academic year

| Certificate | Diploma Courses | Dates of Introduction | Duration | Focus on employ ability/entrepreneurship | Skill Development |
|---|-----------------|-----------------------|----------|--|-------------------|
| No Data Entered/Not Applicable !!! | | | | | |

1.2 – Academic Flexibility

1.2.1 – New programmes/courses introduced during the academic year

| Programme/Course | Programme Specialization | Dates of Introduction |
|---|--------------------------|-----------------------|
| No Data Entered/Not Applicable !!! | | |
| No file uploaded. | | |

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

| Name of programmes adopting CBCS | Programme Specialization | Date of implementation of CBCS/Elective Course System |
|----------------------------------|---|---|
| BE | Automobile Engineering | 02/07/2018 |
| BE | Biomedical Engineering | 02/07/2018 |
| BE | Civil Engineering | 02/07/2018 |
| BE | Computer Science and Engineering | 02/07/2018 |
| BE | Electronics Communication and Engineering | 02/07/2018 |
| BE | Electrical and Electronics Engineering | 02/07/2018 |
| BE | Mechanical Engineering | 02/07/2018 |
| BTech | Biotechnology | 02/07/2018 |
| ME | Computer Science and Engineering | 02/07/2018 |

| | | |
|-------|----------------------------------|------------|
| ME | Embedded System and Technologies | 02/07/2018 |
| ME | Manufacturing Engineering | 02/07/2018 |
| ME | Power Electronics and Drives | 02/07/2018 |
| ME | VLSI Design | 02/07/2018 |
| Mtech | Biotechnology | 02/07/2018 |
| MBA | Business Administration | 02/07/2018 |
| MCA | Computer Applications | 02/07/2018 |

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

| Certificate | Diploma Course |
|---|----------------|
| No Data Entered/Not Applicable !!! | |

1.3 – Curriculum Enrichment

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

| Value Added Courses | Date of Introduction | Number of Students Enrolled |
|---|----------------------|-----------------------------|
| Value added course on Tekla | 03/01/2019 | 35 |
| Value Added Courses on Embedded Application using Arduino and PIC | 07/01/2019 | 58 |
| Value added course on PHP | 21/01/2019 | 31 |
| Value Added Course on Industrial Automation | 29/01/2019 | 30 |
| Value added course on vehicle onboard diagnostics | 01/03/2019 | 41 |
| Value added course on CAD CAM CAE | 04/03/2019 | 17 |
| Value added course on Advance Excel | 20/02/2019 | 40 |
| Value added course on CCNA | 02/07/2018 | 30 |
| Value added course on ASP.NET | 01/08/2018 | 47 |
| Value added course on Pharmacogenomics | 10/09/2018 | 41 |
| Value added course on Biomedical Instrumentation | 17/09/2018 | 50 |
| Value added course on Asp. Net | 20/12/2018 | 27 |
| View File | | |

1.3.2 – Field Projects / Internships under taken during the year

| Project/Programme Title | Programme Specialization | No. of students enrolled for Field Projects / Internships |
|-------------------------|--------------------------|---|
|-------------------------|--------------------------|---|

| | | |
|---------------------------|---|-----|
| BE | Automobile Engineering | 88 |
| BE | Biomedical Engineering | 110 |
| BE | Civil Engineering | 108 |
| BE | Electronics and Communication Engineering | 188 |
| BE | Electrical and Electronics Engineering | 27 |
| BE | Mechanical Engineering | 54 |
| BTech | Biotechnology | 130 |
| ME | Computer Science and Engineering | 8 |
| ME | Embedded System and Technologies | 6 |
| ME | Manufacturing Engineering | 9 |
| ME | Power Electronics and Drives | 11 |
| ME | VLSI Design | 6 |
| Mtech | Biotechnology | 14 |
| MBA | Business Administration | 51 |
| MCA | Computer Applications | 37 |
| BE | Computer Science Engineering | 20 |
| View File | | |

1.4 – Feedback System

1.4.1 – Whether structured feedback received from all the stakeholders.

| | |
|-----------|-----|
| Students | Yes |
| Teachers | Yes |
| Employers | Yes |
| Alumni | Yes |
| Parents | Yes |

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

| |
|---|
| Feedback Obtained |
| <p>Feedback obtained from various stakeholders such as Students, Teachers, Employers, Alumni and Parents through online / offline. The collected feedback is analysed by the faculty and HoD. The cumulative report will be submitted to Principal, followed by, forwarded to Governing Council for rectification. All the report has been consolidated and discuss by the members. Based on the suggestion from Governing Council, action will be implemented in various aspects like, academic, administration, extracurricular, cocurricular etc., Based on the feedback, following are implemented for rectification • Upgraded the desktop with high resolution • Increased the internet speed • Purchased hightech instruments for Research and Development and regular laboratory classes • As per the regulation and feedback, modernized the laboratory • Enabled the smart class room with AV facility and Internet • Invite more industry persons to the campus for deliver invited lectures • Arranged more</p> |

industrial visits for the students

CRITERION II – TEACHING- LEARNING AND EVALUATION

2.1 – Student Enrolment and Profile

2.1.1 – Demand Ratio during the year

| Name of the Programme | Programme Specialization | Number of seats available | Number of Application received | Students Enrolled |
|-----------------------|---|---------------------------|--------------------------------|-------------------|
| BE | Automobile Engineering | 60 | 10 | 10 |
| BE | Biomedical Engineering | 60 | 38 | 35 |
| BE | Civil Engineering | 60 | 3 | 3 |
| BE | Computer Science and Engineering | 60 | 29 | 27 |
| BE | Electronics and Communication Engineering | 60 | 17 | 17 |
| BE | Electrical and Electronics Engineering | 60 | 13 | 13 |
| BE | Mechanical Engineering | 60 | 19 | 19 |
| BTech | Biotechnology | 60 | 46 | 45 |
| ME | Computer Science and Engineering | 18 | 6 | 6 |
| ME | Embedded System and Technologies | 18 | 6 | 6 |
| ME | Manufacturing Engineering | 18 | 9 | 9 |
| ME | Power Electronics and Drives | 18 | 2 | 2 |
| ME | VLSI Design | 18 | 3 | 3 |
| Mtech | Biotechnology | 24 | 21 | 20 |
| MCA | Computer Applications | 60 | 0 | 0 |
| MBA | Business Administration | 60 | 72 | 60 |

[View File](#)

2.2 – Catering to Student Diversity

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

| Year | Number of students enrolled in the institution | Number of students enrolled in the institution | Number of fulltime teachers available in the | Number of fulltime teachers available in the | Number of teachers teaching both UG |
|------|--|--|--|--|-------------------------------------|
|------|--|--|--|--|-------------------------------------|

| | | | | | |
|------|------|------|--------------------------------------|--------------------------------------|----------------|
| | (UG) | (PG) | institution teaching only UG courses | institution teaching only PG courses | and PG courses |
| 2018 | 1125 | 322 | 101 | 20 | 21 |

2.3 – Teaching - Learning Process

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

| Number of Teachers on Roll | Number of teachers using ICT (LMS, e-Resources) | ICT Tools and resources available | Number of ICT enabled Classrooms | Number of smart classrooms | E-resources and techniques used |
|----------------------------|---|-----------------------------------|----------------------------------|----------------------------|---------------------------------|
| 148 | 101 | 6 | 20 | 20 | 9 |

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

The institute is adopted the mentoring system. It is one of the best practices in NAAC. The mentors take the feedback during the mentor period. Subsequently, take necessary action on their requirements regarding academic, administration and personal issues. Students are counsels, who are in slow learners and personal issues students. Chief mentors are consolidated the mentoring system and forwarded to the higher authority for necessary action. Dr. Sethumathavan, Psychiatrist, Karpaga Vinayaga Institute of Medical Sciences regularly visit and counsel our students for their health and stress management and fostering their resilience and tools to express and overcome grief and adversity

| Number of students enrolled in the institution | Number of fulltime teachers | Mentor : Mentee Ratio |
|--|-----------------------------|-----------------------|
| 1447 | 148 | 1:10 |

2.4 – Teacher Profile and Quality

2.4.1 – Number of full time teachers appointed during the year

| No. of sanctioned positions | No. of filled positions | Vacant positions | Positions filled during the current year | No. of faculty with Ph.D |
|-----------------------------|-------------------------|------------------|--|--------------------------|
| 148 | 148 | 29 | 29 | 26 |

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

| Year of Award | Name of full time teachers receiving awards from state level, national level, international level | Designation | Name of the award, fellowship, received from Government or recognized bodies |
|---------------|---|-------------|--|
| 2018 | Dr. V. Karthikeyan | Professor | Award On Green Environment from Tamilnadu State Government |
| 2018 | Dr.P.Kasinatha Pandian | Principal | Charered Engineer (India) |
| 2018 | Dr.P.Kasinatha Pandian | Principal | Dr.APJ Abdul Kalam Award for Teaching Excellence |
| 2018 | Dr.P.Kasinatha Pandian | Principal | Albert Nelson Marquis Lifetime Achievement Award. |
| 2018 | Dr.P.Kasinatha Pandian | Principal | Official istee in Marquis Whos who in |

[View File](#)**2.5 – Evaluation Process and Reforms**

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

| Programme Name | Programme Code | Semester/ year | Last date of the last semester-end/ year-end examination | Date of declaration of results of semester-end/ year- end examination |
|----------------|----------------|----------------|--|---|
| BE | 102 | Semester | 23/03/2019 | 22/06/2019 |
| BE | 103 | Semester | 23/03/2019 | 22/06/2019 |
| BE | 104 | Semester | 23/03/2019 | 22/06/2019 |
| BE | 105 | Semester | 23/03/2019 | 22/06/2019 |
| BE | 106 | Semester | 23/03/2019 | 22/06/2019 |
| BE | 114 | Semester | 23/03/2019 | 22/06/2019 |
| BE | 121 | Semester | 23/03/2019 | 22/06/2019 |
| BTech | 214 | Semester | 23/03/2019 | 22/06/2019 |
| ME | 405 | Semester | 23/03/2019 | 22/06/2019 |
| ME | 410 | Semester | 23/03/2019 | 22/06/2019 |
| ME | 415 | Semester | 23/03/2019 | 22/06/2019 |
| ME | 419 | Semester | 23/03/2019 | 22/06/2019 |
| ME | 431 | Semester | 23/03/2019 | 22/06/2019 |
| Mtech | 509 | Semester | 23/03/2019 | 22/06/2019 |
| MCA | 621 | Semester | 23/03/2019 | 22/06/2019 |
| MBA | 631 | Semester | 23/03/2019 | 22/06/2019 |

[View File](#)

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

The college has conducted the Continuous Internal Evaluation as prescribed by the Anna University, Chennai. For internal assessment 3 assessments per semester are being conducted. The first and second internal assessment is conducted for 50 marks (which is split into Part - A (10 marks) and Part - B (40 marks)) and converted into 100 marks and third internal assessment as a model examination for 100 marks (which is split into Part - A (20 marks), Part - B (65 marks) and Part - C (15 marks)). Evaluation is a continuous process assists to improve student quality and participation in practicals classes. Continuous Internal Evaluation is helpful for assessing the students to attainment level of the course outcome. If the students are not attain, the teaching strategy of the respective subjects can be modified.

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

The institution has prepared academic calendar as prescribed by the University. All the departments are strictly adhered to the academic calendar related to conduct of internal assessments, portion completion, submission of assignments and other curricular activities.

2.6 – Student Performance and Learning Outcomes

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

<https://www.kvcn.edu.in/departments-2/>

2.6.2 – Pass percentage of students

| Programme Code | Programme Name | Programme Specialization | Number of students appeared in the final year examination | Number of students passed in final year examination | Pass Percentage |
|----------------|----------------|---|---|---|-----------------|
| 102 | BE | Automobile Engineering | 22 | 5 | 22.72 |
| 103 | BE | Civil Engineering | 44 | 12 | 27.27 |
| 104 | BE | Computer Science and Engineering | 25 | 17 | 68 |
| 105 | BE | Electrical and Electronics Engineering | 30 | 8 | 26.67 |
| 106 | BE | Electronics and Communication Engineering | 39 | 15 | 38.46 |
| 114 | BE | Mechanical Engineering | 96 | 29 | 30.21 |
| 121 | BE | Biomedical Engineering | 54 | 46 | 85.19 |
| 214 | BTech | Biotechnology | 51 | 40 | 78.43 |
| 405 | ME | Computer Science and Engineering | 13 | 10 | 76.92 |
| 410 | ME | Manufacturing Engineering | 12 | 6 | 50 |
| 415 | ME | Power Electronics and Drives | 16 | 2 | 12.5 |
| 419 | ME | VLSI Design | 5 | 2 | 40 |
| 509 | Mtech | Biotechnology | 19 | 18 | 94.74 |
| 621 | MCA | Computer Applications | 37 | 22 | 59.46 |
| 631 | MBA | Business Administration | 57 | 9 | 15.79 |
| 431 | ME | Embedded System and Technologies | 7 | 7 | 100 |

[View File](#)

2.7 – Student Satisfaction Survey

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

<https://www.kvcn.edu.in/naac-3/>

CRITERION III – RESEARCH, INNOVATIONS AND EXTENSION

3.1 – Resource Mobilization for Research

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

| Nature of the Project | Duration | Name of the funding agency | Total grant sanctioned | Amount received during the year |
|--------------------------------------|----------|--|------------------------|---------------------------------|
| Major Projects | 1095 | MoES | 20.51 | 8.85 |
| International Projects | 730 | U.S Common Grant Program (PADI foundation) | 3.57 | 0 |
| Major Projects | 730 | ICMR | 7.79 | 3.89 |
| Projects sponsored by the University | 365 | Management | 0.3 | 0.3 |
| Projects sponsored by the University | 365 | Management | 0.21 | 0.21 |
| Projects sponsored by the University | 365 | Management | 0.15 | 0.15 |
| Projects sponsored by the University | 365 | Management | 1.3 | 1.3 |
| Projects sponsored by the University | 365 | Management | 0.25 | 0.25 |
| Projects sponsored by the University | 365 | Management | 0.7 | 0.7 |
| Projects sponsored by the University | 365 | Management | 0.4 | 0.4 |
| Projects sponsored by the University | 365 | Management | 1.6 | 1.6 |
| Projects sponsored by the University | 365 | Management | 1 | 1 |

[View File](#)

3.2 – Innovation Ecosystem

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

| Title of workshop/seminar | Name of the Dept. | Date |
|---|---|------------|
| One Day National Seminar on Recent Trends in Automobile Safety System | Automobile Engineering | 10/08/2018 |
| Awareness Programme on IPR/ Patent right | Biotechnology | 29/08/2018 |
| Intellectual property rights on challenges and issues | Business Administration | 10/10/2018 |
| Workshop on Patent Right and Drafting | Biotechnology | 10/12/2018 |
| National Seminar on IPR and its Emerging Trends | Biomedical Engineering | 20/02/2019 |
| Workshop cum Seminar on IPR Awareness Opportunities in Civil Engineering | Civil Engineering | 22/02/2019 |
| One day National Workshop on Additive Manufacturing Using 3d Printer With Hands On Training | Automobile Engineering | 28/02/2019 |
| Kinematics simulation and 3D photorelastic rendering | Mechanical Engineering | 28/02/2019 |
| National Seminar on IPR for Electrical drives | Electrical and Electronics Engineering | 30/03/2019 |
| Recent Trends in Castings | Mechanical Engineering | 04/01/2019 |
| IPR awareness and opportunities in Embedded systems | Electronics and Communication Engineering | 12/02/2019 |

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

| Title of the innovation | Name of Awardee | Awarding Agency | Date of award | Category |
|---|-----------------|-------------------|---------------|-------------|
| Development of Hand assist device for paralyzed patients using wireless control | Rubeshram | Texas Instruments | 16/01/2019 | Preliminary |
| View File | | | | |

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

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

3.3 – Research Publications and Awards

3.3.1 – Incentive to the teachers who receive recognition/awards

| | | |
|---|----------|---------------|
| State | National | International |
| No Data Entered/Not Applicable !!! | | |

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

| | |
|---|-------------------------|
| Name of the Department | Number of PhD's Awarded |
| No Data Entered/Not Applicable !!! | |

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

| Type | Department | Number of Publication | Average Impact Factor (if any) |
|---------------|---|-----------------------|--------------------------------|
| National | Computer Science and Engineering | 2 | 0.15 |
| International | Biomedical Engineering | 3 | 2.03 |
| International | Biotechnology | 3 | 2.05 |
| International | Civil Engineering | 7 | 0.38 |
| International | Electronics and Communication Engineering | 2 | 0.15 |
| International | Computer Applications | 6 | 1.5 |

[View File](#)

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

| Department | Number of Publication |
|---|-----------------------|
| Automobile Engineering | 3 |
| Biomedical Engineering ³ | 3 |
| Biotechnology | 8 |
| Civil Engineering | 3 |
| Computer Science and Engineering | 9 |
| Electronics and Communication Engineering | 20 |
| Electrical and Electronics Engineering | 13 |
| Mechanical Engineering | 5 |
| Science and Humanities | 5 |
| Business Administration | 3 |
| Computer Applications | 4 |

[View File](#)

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

| Title of the Paper | Name of Author | Title of journal | Year of publication | Citation Index | Institutional affiliation as mentioned in the publication | Number of citations excluding self citation |
|--------------------|----------------|------------------|---------------------|----------------|---|---|
| Design and | A.Manimara | Indonesian | 2018 | 0 | Karpaga | 0 |

| | | | | | | |
|--|---|---|------|---|--|---|
| implementation of 32 point split radix SDC algorithm | n | Journal of Electrical engineering and computer science | | | Vinayaga College of Engineering and Technology | |
| Design of high speed low power parameter extracted on CAM architecture using 4T XOR module | A.Lavanya | International Journal of Communication System | 2018 | 0 | Karpaga Vinayaga College of Engineering and Technology | 0 |
| Wireless heart attack detection and tracking via GPS and GSM | K.S. Abbirame, V.SarveshwaranJ. Charumathi, M. Gunapriya, P. Illakiya | International Journal of Latest Technology in Engineering, Management and Applied Science | 2018 | 0 | Karpaga Vinayaga College of Engineering and Technology | 0 |
| Invitro antifungal study of green synthesized silver nanoparticles from Acacia nilotica leaves extract against a plant and human pathogens | Magesh R, Sivakumar K, Karthik eyan V, Mohanasundaram S, Subathra M, Joseph J, Venugopal K and Sasikala | International journal of research in Pharmaceutical sciences | 2018 | 0 | Karpaga Vinayaga College of Engineering and Technology | 0 |
| Pharmacological analysis of hydroethanolic extract of Sennaalata (L.) for in vitro free radical scavenging and cytotoxic | S Mohanasundaram, V. Arokiadas, P. Meddise tti, R. Magesh, K. Sivakumar and M. Subhathara | Pakistan Journal of Pharmaceutical Science | 2018 | 0 | Karpaga Vinayaga College of Engineering and Technology | 0 |

| | | | | | | |
|--|----------------------|---|------|---|--|---|
| activities against HepG2 cancer cell line | | | | | | |
| Identification of anticancer activity of phytoconstituents from mangrove | Dr. A. Sheela Devi | International Journal of Research in Pharmaceutical Sciences | 2018 | 0 | Karpaga Vinayaga College of Engineering and Technology | 0 |
| Studies on Physicochemical Analysis of Water from Different Sources | Dr. V.Karthikeyan | International Journal of Research in Pharmaceutical Sciences | 2019 | 0 | Karpaga Vinayaga College of Engineering and Technology | 0 |
| Pharmacological analysis of hydroethanolic extract of Senna alata (L.) for invitro free radical scavenging and cytotoxic activities against HepG2 cancer cell line | Dr.S.Mohan asundaram | Pakistan Journal of Pharmaceutical Sciences | 2018 | 0 | Karpaga Vinayaga College of Engineering and Technology | 0 |
| Developing AN Enhanced High Speed Key Transmission Technique to Avoid Fraud Activity in ECommerce | Mrs.AB.HajiraBe | Indonesian Journal of Electrical engineering and computer science | 2018 | 0 | Karpaga Vinayaga College of Engineering and Technology | 0 |
| Improving Cloud Platform | Mrs.C.Jayapratha | Journal of Advanced Research | 2018 | 0 | Karpaga Vinayaga College of | 0 |

| | | | | | | |
|---|------------------------|---|------|---|--|---|
| Access by open Tag in Wide Area Network | | in Dynamical and Control Systems | | | Engineering and Technology | |
| Single Objective for an Integer Partial Flexible Open Shop Scheduling Problem Using Developed Ant Colony Optimization | Dr.D.Saravanan | International Journal of Mechanical and Production Engineering Research and Development (IJMPERD) | 2018 | 0 | Karpaga Vinayaga College of Engineering and Technology | 0 |
| Biobjective Firefly Algorithm for Flexible Open Shop Scheduling Problem | Dr.D.Saravanan | Journal of Advanced Research in Dynamical Control Systems (JARDC) | 2018 | 0 | Karpaga Vinayaga College of Engineering and Technology | 0 |
| Pareto based Hybrid Multi Objective Firefly Algorithm for Flexible Open Shop Scheduling Problem (PHMOFAFOSSP) | Dr.D.Saravanan | International Journal of Pure and Applied Mathematics (IJPAM) | 2018 | 0 | Karpaga Vinayaga College of Engineering and Technology | 0 |
| Multi Objective Partial Flexible Open Shop Scheduling Problem Using an Advance Ant Colony Optimization | Dr.D.Saravanan | Journal of Advanced Research in Dynamical Control Systems (JARDC) | 2018 | 0 | Karpaga Vinayaga College of Engineering and Technology | 0 |
| Valorization of crushed | Dr.P.Kasinthan Pandian | Civil and Environmental Engine | 2018 | 0 | Karpaga Vinayaga College of | 0 |

| | | | | | | |
|---|-------------------------------|--|------|---|--|---|
| glass as a potential replacement for sand in cement stabilized fly ash bricks | | ering | | | Engineerin g and Technology | |
| Estimation and mapping chlorophyll a concentration in pulicat lagoon, south india using sentinel 2A | Dr.P.Kasin atha Pandian | Indian journal of ecology | 2018 | 0 | Karpaga Vinayaga College of Engineerin g and Technology | 0 |
| Geospatial study on pichavaram mangroves region : remote sensing and GIS approach | Dr.P.Kasin atha Pandian | Internatio nal journal of applied en gineering research | 2018 | 0 | Karpaga Vinayaga College of Engineerin g and Technology | 0 |
| Strength and microstructure of micro ceramic dust admixed lime stabilized soil | Dr.P.Kasin atha Pandian | Revista De La Constru ction | 2018 | 0 | Karpaga Vinayaga College of Engineerin g and Technology | 0 |
| Select geo technical properties of a lime stabilized expansive soil amended with bagasse ash and coconut shell powder | Dr.P.Kasin atha Pandian | SSP Journal of Civil engi neering | 2018 | 0 | Karpaga Vinayaga College of Engineerin g and Technology | 0 |
| Bagasse ash as an | Dr.P.Kasin atha | Advances in civil e | 2018 | 0 | Karpaga Vinayaga | 0 |

| | | | | | | |
|---|-------------------------|---------------------------------------|------|---|--|---|
| auxiliary additive to lime stabilized expansive soil : Strength and microstructural investigation | Pandian | ngineering | | | College of Engineering and Technology | |
| Mapping and modelling of chlorophyll A in the water of pulicat lake | Dr.P.Kasinaatha Pandian | Ecology, Environment and Conservation | 2018 | 0 | Karpaga Vinayaga College of Engineering and Technology | 0 |
| View File | | | | | | |

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

| Title of the Paper | Name of Author | Title of journal | Year of publication | h-index | Number of citations excluding self citation | Institutional affiliation as mentioned in the publication |
|--|--------------------|--|---------------------|---------|---|---|
| Identification of anticancer activity of phytoconstituents from mangrove | Dr. A. Sheela Devi | International Journal of Research in Pharmaceutical Sciences | 2018 | 0 | 15 | yes |
| Invitro antifungal study of green synthesized silver nanoparticles from Acacia nilotica Leaves extract against a plant and human pathogens | Dr R Magesh | International Journal of Research in Pharmaceutical Sciences | 2018 | 0 | 15 | yes |
| Studies on Physicochemical Analysis of Water from | Dr. V.Karthikeyan | International Journal of Research in Pharmaceutical | 2019 | 0 | 15 | yes |

| Different Sources | | Sciences | | | | |
|--|--|---|------|---|----|-----|
| Pharmacological analysis of hydroethanolic extract of Senna alata (L.) for invitro free radical scavenging and cytotoxic activities against HepG2 cancer cell line | Dr.S.Mohan asundaram | Pakistan Journal of Pharmaceutical Sciences | 2018 | 0 | 35 | yes |
| Design and implementation of 32 point split radix SDC algorithm | A.MANIMARAN | Indonesian Journal of Electrical engineering and computer science | 2018 | 0 | 0 | yes |
| Design of high speed low power parameter extracted on CAM architecture using 4T XOR module | A.LAVANYA | International Journal of Communication System | 2018 | 0 | 0 | yes |
| Wireless heart attack detection and tracking via GPS and GSM | K.S. Abbirame, V. Sarveshwaran, J. Charumathi, M. Gunapriya, P. Illakiya | International journal of latest technology in Engineering, Management and Applied Science | 2018 | 0 | 0 | yes |
| Invitro antifungal study of green synthesized silver nanoparticles | Magesh R, Sivakumar K, Karthikayan V, Mohanasundaram S, Subathra | International journal of research in Pharmaceutical sciences | 2018 | 0 | 0 | yes |

| | | | | | | |
|--|---|---|------|---|---|-----|
| from Acacia nilotica leaves extract against a plant and human pathogens | M, Joseph J, Venugopal K and Sasikala | | | | | |
| Pharmacological analysis of hydroethanolic extract of Sennaalata (L.) for in vitro free radical scavenging and cytotoxic activities against HepG2 cancer cell line | S Mohanasundaram, V. Arokiadas, P. Meddiseetty, R. Magesh, K. Sivakumar and M. Subhathara | Pakistan Journal of Pharmaceutical Science | 2018 | 0 | 0 | yes |
| Developing AN Enhanced High Speed Key Transmission Technique to Avoid Fraud Activity in ECommerce | Mrs.AB.HajiraBe | Indonesian Journal of Electrical engineering and computer science | 2018 | 0 | 0 | yes |
| Improving Cloud Platform Access by open Tag in Wide Area Network | Mrs.C.Jayapratha | Journal of Advanced Research in Dynamical and Control Systems | 2018 | 0 | 0 | yes |
| Single Objective for an Integer Partial Flexible Open Shop Scheduling | Dr.D.Saravanan | International Journal of Mechanical and Production Engineering Research | 2018 | 0 | 0 | yes |

| | | | | | | |
|---|------------------------|---|------|---|---|-----|
| Problem Using Developed Ant Colony Optimization | | and Development (IJMPERD) | | | | |
| Biobjective Firefly Algorithm for Flexible Open Shop Scheduling Problem | Dr.D.Saravanan | Journal of Advanced Research in Dynamical Control Systems (JARDC) | 2018 | 0 | 0 | yes |
| Pareto based Hybrid Multi Objective Firefly Algorithm for Flexible Open Shop Scheduling Problem (PHMOFAFOSSP) | Dr.D.Saravanan | International Journal of Pure and Applied Mathematics (IJPAM) | 2018 | 0 | 0 | yes |
| Estimation and mapping chlorophyll a concentration in pulicat lagoon, south india using sentinel 2A | Dr.P.Kasinthan Pandian | indian journal of ecology | 2018 | 0 | 0 | yes |
| Geospatial study on pichavaram mangroves region : remote sensing and GIS approach | Dr.P.Kasinthan Pandian | International journal of applied engineering research | 2018 | 0 | 0 | yes |
| Strength and microstructure of micro ceramic dust | Dr.P.Kasinthan Pandian | Revista De La Construccion | 2018 | 0 | 0 | yes |

| | | | | | | |
|---|-------------------------|---------------------------------------|------|---|---|-----|
| admixed lime stabilized soil | | | | | | |
| Select geo technical properties of a lime stabilized expansive soil amended with bagasse ash and coconut shell powder | Dr.P.Kasin atha Pandian | SSP Journal of Civil engineering | 2018 | 0 | 0 | yes |
| bagasse ash as an auxiliary additive to lime stabilized expansive soil : Strength and micro structural investigation | Dr.P.Kasin atha Pandian | Advances in civil engineering | 2018 | 0 | 0 | yes |
| Mapping and modelling of chlorophyll A in the water of pulicat lake | Dr.P.Kasin atha Pandian | ecology, environment and conservation | 2018 | 0 | 0 | yes |
| Valorization of crushed glass as a potential replacement for sand in cement stabilized fly ash bricks | Dr.P.Kasin atha Pandian | Civil and Environmental Engineering | 2018 | 0 | 0 | yes |

[View File](#)

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

| Number of Faculty | International | National | State | Local |
|-------------------|---------------|----------|-------|-------|
| Attended/Semina | 5 | 9 | 0 | 2 |

| | | | | |
|---------------------------|----|----|---|---|
| rs/Workshops | | | | |
| Presented papers | 32 | 12 | 0 | 0 |
| Resource persons | 0 | 3 | 1 | 0 |
| View File | | | | |

3.4 – Extension Activities

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

| Title of the activities | Organising unit/agency/ collaborating agency | Number of teachers participated in such activities | Number of students participated in such activities |
|--|---|--|--|
| Awareness Program on road safety | NSS | 3 | 40 |
| Unity in diversity | NSS | 3 | 48 |
| Impact on social media | NSS | 2 | 32 |
| Awareness programme on optimism | NSS | 2 | 40 |
| Awareness programme on health | YRC | 2 | 40 |
| Rally on awareness of plastics and swachh bharat | NSS | 2 | 40 |
| Camp for eye donation | YRC | 7 | 34 |
| Awarness programme on save water | NSS | 7 | 36 |
| Programme on clean india children day festival | NSS | 7 | 35 |
| Programme on green practices plastic awarness | NSS | 7 | 35 |
| Programme on health festival | YRC | 7 | 36 |
| Dengue awareness program | YRC | 3 | 10 |
| National values on church | NSS | 3 | 30 |
| Career guidance program | NSS | 4 | 5 |
| Project expo curriculum teaching | NSS | 15 | 25 |
| Awareness on save water | NSS | 3 | 20 |
| Awareness program on save energy | NSS | 2 | 50 |

| | | | |
|---|-----|---|----|
| Awareness program on save energy | NSS | 2 | 40 |
| Awareness program on save energy | NSS | 2 | 45 |
| Waste management | YRC | 3 | 50 |
| Plastic awarness chennai | NSS | 3 | 50 |
| Awareness programme on avoid plastic | NSS | 3 | 15 |
| Awareness programme on solid waste management | NSS | 2 | 10 |
| Awareness programme on clean india | NSS | 3 | 10 |
| Prosopisjuli flora (seemai karuvelam) tree removal | NSS | 3 | 15 |
| Beach cleaning | NSS | 3 | 20 |
| Global warming | NSS | 2 | 16 |
| Arivom tamizh | NSS | 1 | 10 |
| Tree plantation | NSS | 2 | 12 |
| Avoid plastics | NSS | 2 | 16 |
| REDUCE, REUSE, RECYCLE (RRR) | NSS | 3 | 4 |
| Be a volunteer help others | NSS | 4 | 10 |
| View File | | | |

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

| Name of the activity | Award/Recognition | Awarding Bodies | Number of students Benefited |
|---|-------------------|-----------------|------------------------------|
| No Data Entered/Not Applicable !!! | | | |
| No file uploaded. | | | |

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

| Name of the scheme | Organising unit/Agency/collaborating agency | Name of the activity | Number of teachers participated in such activities | Number of students participated in such activities |
|--------------------|---|---------------------------------------|--|--|
| Road safety | Chengalpet town traffic police station | Awarenes program | 2 | 53 |
| Swachh bharat | Uthiramerur municipality | Mass cleaning | 2 | 50 |
| Swachh bharat | Achirapakkam panchayat | Green practices and plastic awareness | 7 | 35 |

| | | | | |
|---------------------------|-----------------------------------|--|----|-----|
| Swachh bharat | Uthiramerur town panchayat | Health festival | 7 | 36 |
| Swachh bharat | Department of police, Kanchipuram | Rally on solid waste management | 4 | 50 |
| Swach bharat | Tindivanam police station | Road safety rally program | 10 | 120 |
| Swach bharat | Villupuram district police | Plastic awareness program | 10 | 120 |
| Swachh bharat | Vandular zoo | Awarness display board regarding agriculture | 2 | 45 |
| View File | | | | |

3.5 – Collaborations

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

| Nature of activity | Participant | Source of financial support | Duration |
|---|-------------|-----------------------------|----------|
| No Data Entered/Not Applicable !!! | | | |
| No file uploaded. | | | |

3.5.2 – Linkages with institutions/industries for internship, on-the- job training, project work, sharing of research facilities etc. during the year

| Nature of linkage | Title of the linkage | Name of the partnering institution/ industry /research lab with contact details | Duration From | Duration To | Participant |
|-------------------|---|--|---------------|-------------|-------------|
| Industrial Visit | One day Visit to the Industry | Biovision Pvt ltd., New No 103 (old No.45), 1st floor, St Marys Rd, Abhiramapuram, Chennai, 600018 | 12/09/2019 | 12/09/2019 | 55 |
| Industrial Visit | One day Visit to the Industry | Biometric cables, Guindy, Chennai | 29/01/2019 | 29/01/2019 | 54 |
| Internship | Internship in Real Time Concepts of Embedded and Robotics using Arduino | Polenza Technologies Pvt Ltd, Chengalpet | 10/12/2018 | 15/12/2018 | 7 |
| Inplant | 4 days | Uniq Technol | 03/12/2018 | 06/12/2018 | 3 |

| | | | | | |
|------------------|--|--|------------|------------|----|
| Training | Inplant Training | ogies, T. Nagar, Chennai | | | |
| Inplant Training | 6 days Inplant Training | Medway Hospitals, Kodambakkam | 10/12/2018 | 15/12/2018 | 4 |
| Internship | 5 days Internship in Real Time Concepts of Embedded and Robotics using Arduino | Polenza Technologies Pvt Ltd, Chengalpet | 03/12/2018 | 07/12/2018 | 8 |
| Inplant Training | 5 days Hospital Training | Venkateswara Hospitals, Nandanam, Chennai | 19/06/2018 | 23/06/2018 | 3 |
| Inplant Training | 6 days Inplant Training on Hospital Equipments | Division of Telemedicine and Biomedical Engineering, Raja Muthaiah Medical College and Hospital, Chidambaram | 07/06/2018 | 12/06/2018 | 11 |
| Inplant Training | 5 days Inplant Training | Star Technologies, T. Nagar, Chennai | 06/06/2018 | 12/06/2018 | 1 |
| Internship | 3 days Internship | Govt. Stanley Hospital | 27/06/2018 | 29/06/2018 | 1 |
| Internship | 10 days Internship in the Department of Biomedical Engineering | Noorulislam Institute of Medical Science and Research Foundation, Thiruvananthapuram, Kerala | 04/06/2018 | 15/06/2018 | 1 |
| Inplant Training | 6 days Inplant Training | Medway Hospitals, Kodambakkam | 11/06/2018 | 16/06/2018 | 1 |
| Inplant Training | 5 days Inplant Training | Madras Atomic Power Station, | 04/06/2018 | 08/06/2018 | 1 |
| Internship | 12 days Internship in the | Sparsh Hospitals, Bangalore | 15/06/2018 | 26/06/2018 | 1 |

| | | | | | |
|------------------|---|---|------------|------------|---|
| | Department of Biomedical Engineering | | | | |
| Inplant Training | 6 days Inplant Training | Medway Hospitals, Kodambakkam | 25/06/2018 | 30/06/2018 | 1 |
| Internship | 5 days Internship | Kaashiv Infotech, Annanagar, Chennai | 12/06/2018 | 16/06/2018 | 1 |
| Internship | 5 days Internship | Kaashiv Infotech, Annanagar, Chennai | 19/06/2018 | 23/06/2018 | 1 |
| Internship | 5 days Internship | Kaashiv Infotech, Annanagar, Chennai | 04/06/2018 | 08/06/2018 | 2 |
| Internship | 5 days Internship | Kaashiv Infotech, Annanagar, Chennai | 18/06/2018 | 22/06/2018 | 2 |
| Internship | 13 days Internship | Erbe Medical India Pvt. Ltd. , Nandhambakkam, Chennai | 11/12/2018 | 23/12/2018 | 6 |
| Inplant Training | 3 days Inplant training in the Department of Biomedical Engineering | Sri Durga Surgical Clinic and Research Center, Pudukottai | 26/06/2018 | 28/06/2018 | 4 |
| Internship | 6 days Internship in Biomedical Department | Billroth Hospitals, Chennai | 23/06/2018 | 28/06/2018 | 5 |
| Internship | 6 days Internship | Vi Microsystems Pvt. Ltd., Chennai | 22/06/2018 | 27/06/2018 | 3 |
| Internship | 7 days Internship in Biomedical Department | Billroth Hospitals, Chennai | 19/06/2018 | 25/06/2018 | 3 |
| Internship | 10 days Internship | Asia Medical Systems, Salem | 29/05/2018 | 07/06/2018 | 6 |

| | | | | | |
|------------------|--------------------------|--|------------|------------|----|
| Inplant Training | 5 days Hospital Training | Venkateswara Hospitals, Nandanam, Chennai | 12/06/2018 | 18/06/2018 | 2 |
| Internship | 7 days Internship | Adroit Solutions, Chennai | 25/06/2018 | 01/07/2018 | 4 |
| Inplant Training | 7 days Inplant Training | Biochiptronics Technologies, Melmaruvathur | 08/06/2018 | 14/06/2018 | 4 |
| Inplant Training | 6 days Inplant training | Ultraserve Systems, Chennai | 11/06/2018 | 16/06/2018 | 8 |
| Industrial Visit | Industrial Visit | SNJ Breweries Pvt.ltd, Mampattu | 14/03/2019 | 14/03/2019 | 49 |
| Industrial Visit | Industrial Visit | IIFPT ,Thanjavur | 31/08/2019 | 31/08/2019 | 50 |
| Industrial Visit | Industrial Visit | OfERR | 11/03/2019 | 11/03/2019 | 51 |
| Internship | Internship | Sarva Seva Dairy Federation | 04/06/2019 | 29/06/2019 | 14 |
| Internship | Internship | Innovative Health Care (India)Pvt Ltd, Chinna Kolambakkam | 24/05/2019 | 01/06/2019 | 17 |
| Internship | Internship | Pasteur Institute Of Coonor | 11/06/2018 | 14/06/2018 | 16 |
| Internship | Internship | Innovative Health Care (India)Pvt Ltd, Chinna Kolambakkam | 10/06/2018 | 25/06/2018 | 16 |
| Internship | Internship | CLRI, Chennai | 24/04/2019 | 25/04/2019 | 1 |
| Internship | Internship | Sarva Seva Milk Plant | 11/12/2018 | 14/12/2018 | 13 |
| Internship | Internship | Sarva Seva Milk Plant, Pooriyambakkam | 10/06/2019 | 25/06/2019 | 5 |
| Internship | Internship | SNJ Breweries pvt limited | 14/06/2019 | 22/06/2019 | 8 |
| Internship | Internship | Jasmine foundation, | 06/06/2019 | 18/06/2019 | 4 |

| | | | | | |
|---------------------------|-------------------------------|--|------------|------------|----|
| | | perungudi | | | |
| Internship | Internship | Thirumala milk products pvt.Ltd Plant | 15/12/2018 | 20/12/2018 | 7 |
| Placement | Placement | GEESYS Technologies, Chennai | 02/01/2019 | 15/02/2019 | 6 |
| Internship | Internship | Brakes India Private Ltd Polambakkam | 06/12/2018 | 09/12/2018 | 8 |
| Internship | 14 days Internship | SICAME INDIA CONNECTORS PRIVATE Ltd | 03/12/2018 | 14/12/2018 | 2 |
| Internship | 21 days internship | TANGEDCO AND TANTRANSO Subsidiary of TNEB | 03/06/2019 | 21/12/2019 | 1 |
| Inplant Training | 1 week Inplant training | Neyveli Lignite Corporation Ltd Employee Development Centre Neyveli | 17/06/2019 | 21/06/2019 | 1 |
| Industrial Visit | One day Visit to the Industry | VI Micro Systems, No.75, Electronics Estate, Perungudi, Chennai 600096 | 06/10/2018 | 06/10/2018 | 51 |
| View File | | | | | |

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

| Organisation | Date of MoU signed | Purpose/Activities | Number of students/teachers participated under MoUs |
|---------------------------------------|--------------------|---|---|
| Axis global automation | 25/03/2019 | Research work, student project, Intenship training and IV | 23 |
| Reem Engineering Enterprises, Chennai | 12/11/2019 | Research work, student project, Intenship training and IV | 56 |
| Retech Technology | 03/05/2018 | Seminar Workshops | 95 |
| Kalam Institute Of Health Technology | 03/07/2018 | Guest Lectures, Seminars, Workshops and Placement | 6 |

| | | | |
|---|------------|--|----|
| Pharma fabrikon Pvt.ltd , | 13/03/2018 | Research work, Value added course Industrial Visit , InPlant Training and Placement | 8 |
| IDesign Technologies Pvt ltd | 13/03/2018 | Value Added courses, Industrial visit and InPlant training | 50 |
| Indo American Hybrid Seeds (India) Pvt. Ltd | 15/07/2018 | Research work, Value added course Industrial Visit , InPlant Training and Placement | 1 |
| Aqua engineers and consultant India Pvt.ltd | 17/12/2018 | Research work, Value added course Industrial Visit , InPlant Training and Placement4 | 4 |
| Golden Jubilee Biotech Park For Women Society | 20/08/2018 | Research work, Value added course Industrial Visit and InPlant Training | 8 |
| Sharpsys Software Solutions India Pvt Ltd. | 04/01/2018 | Research work, Value added course Industrial Visit and InPlant Training | 4 |
| View File | | | |

CRITERION IV – INFRASTRUCTURE AND LEARNING RESOURCES

4.1 – Physical Facilities

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

| | |
|--|--|
| Budget allocated for infrastructure augmentation | Budget utilized for infrastructure development |
| 105 | 110.26 |

4.1.2 – Details of augmentation in infrastructure facilities during the year

| Facilities | Existing or Newly Added |
|---|-------------------------|
| Campus Area | Existing |
| Class rooms | Existing |
| Laboratories | Existing |
| Seminar Halls | Existing |
| Classrooms with LCD facilities | Existing |
| Seminar halls with ICT facilities | Existing |
| Value of the equipment purchased during the year (rs. in lakhs) | Existing |
| Classrooms with Wi-Fi OR LAN | Existing |

4.2 – Library as a Learning Resource

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

| Name of the ILMS software | Nature of automation (fully or partially) | Version | Year of automation |
|--|---|---------|--------------------|
| AutoLib Library Automation Management Software multiuser LAN MSSQL | Fully | 5.1 | 2018 |

4.2.2 – Library Services

| Library Service Type | Existing | | Newly Added | | Total | |
|-----------------------|----------|---------|-------------|-------|-------|---------|
| Text Books | 37984 | 7596800 | 421 | 84200 | 38405 | 7681000 |
| Reference Books | 7560 | 2268000 | 220 | 66000 | 7780 | 2334000 |
| e-Books | 15321 | 13570 | 0 | 0 | 15321 | 13570 |
| e-Journals | 1840 | 1752631 | 763 | 13570 | 2603 | 1766201 |
| Journals | 739 | 1290683 | 0 | 0 | 739 | 1290683 |
| Digital Database | 4 | 13570 | 0 | 0 | 4 | 13570 |
| CD & Video | 1090 | 218000 | 20 | 4000 | 1110 | 222000 |
| Library Automation | 1 | 94224 | 0 | 0 | 1 | 94224 |
| Weeding (hard & soft) | 1920 | 122450 | 212 | 19360 | 2132 | 141810 |

[View File](#)

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

| Name of the Teacher | Name of the Module | Platform on which module is developed | Date of launching e-content |
|---|--------------------|---------------------------------------|-----------------------------|
| No Data Entered/Not Applicable !!! | | | |
| No file uploaded. | | | |

4.3 – IT Infrastructure

4.3.1 – Technology Upgradation (overall)

| Type | Total Computers | Computer Lab | Internet | Browsing centers | Computer Centers | Office | Departments | Available Bandwidth (MGBPS) | Others |
|----------|-----------------|--------------|----------|------------------|------------------|--------|-------------|-----------------------------|--------|
| Existing | 560 | 405 | 30 | 30 | 60 | 8 | 21 | 64 | 6 |
| Added | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 560 | 405 | 30 | 30 | 60 | 8 | 21 | 64 | 6 |

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

| |
|---------------|
| 64 MBPS/ GBPS |
|---------------|

4.3.3 – Facility for e-content

| Name of the e-content development facility | Provide the link of the videos and media centre and recording facility |
|--|--|
| No Data Entered/Not Applicable !!! | |

4.4 – Maintenance of Campus Infrastructure

4.4.1 – Expenditure incurred on maintenance of physical facilities and academic support facilities, excluding salary component, during the year

| Assigned Budget on academic facilities | Expenditure incurred on maintenance of academic facilities | Assigned budget on physical facilities | Expenditure incurred on maintenance of physical facilities |
|--|--|--|--|
| 90 | 95.01 | 7 | 6.82 |

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

Maintenance Policy Physical and Academic support facilities ? The institute is having one Campus Maintenance Engineer, to take care of the maintenance of the infrastructure facilities of the institute, buildings for academic, workshop, hostels, quarters, playgrounds, gymnasium, RO plant and water coolers, Rain water harvesting, auditorium and seminar halls Electrician and Technicians, to take care of campus lighting, lift service, air conditioners, Genset, Solar Plant Gardener, to take care of trees, gardens and plant saplings Plumber for plumbing works and housekeeping staff for periodical cleaning of rest rooms, cleaning of classrooms, halls, laboratories and verandahs. ? Library is maintained by the team of staff. Stock verification is carried out every year. Purchase and utilization are done by the librarian and racks are maintained by the library assistant and cleaning is maintained by the supporting staff. ? Carpentry and welding works are taken care on contract basis for repair of furniture in the Classrooms, Laboratories and Office every semester of the academic year. ? The Computers, Printers, UPS and LCD Projectors are maintained by the campus service personnel and on AMC by external agencies during the academic year. Internet services are installed in the campus by Airtel, service provider and are maintained by technicians. System Administrator maintains the Server room with appropriate softwares. Website is maintained by the external agency coordinated with faculty incharge. ? The laboratory equipments are maintained by the external service personnel, every semester on requirement. ? The transport vehicles are well maintained by the Mechanic appointed in the workshop and fitness certificate is obtained from RTO for ensuring safety. A separate transport in charge is appointed to look after day to day affairs ? Campus security is maintained by the Security Officer along with security personnel to ensure the safety of the campus and CCTV cameras are installed in the buildings for surveillance. Fire extinguishers are installed for the safety purpose. Utilizing Policy ? The built up infrastructure is used effectively for academic activities such as classrooms, workshop, laboratories, library, seminar halls, tutorial rooms, drawing halls etc. ? Computers with internet facilities are being utilized by the academic staff, administrative staff and students. ? Student stakeholders utilize the facilities of playgrounds for extracurricular activities, NSS, YRC and Outreach activities as cocurricular activities. ? As a Social Responsibility, the institution support the Government departments and organizations for their programmes such as training, workshops, etc without affecting regular academic sessions. ? The institution extends its infrastructure during vacation to the government departments such as Postal department, Education department, Revenue department etc., for conducting training programme for their staff. The institution extends support to TNPSC and other Government bodies to conduct their public examinations

during holidays

<https://www.kvcn.edu.in/naac-3/>

CRITERION V – STUDENT SUPPORT AND PROGRESSION

5.1 – Student Support

5.1.1 – Scholarships and Financial Support

| | Name/Title of the scheme | Number of students | Amount in Rupees |
|--------------------------------------|--------------------------|--------------------|------------------|
| Financial Support from institution | Management Scheme | 8 | 340000 |
| Financial Support from Other Sources | | | |
| a) National | BC/MBC/SC/ST | 974 | 21596915 |
| b) International | 0 | 0 | 0 |
| View File | | | |

5.1.2 – Number of capability enhancement and development schemes such as Soft skill development, Remedial coaching, Language lab, Bridge courses, Yoga, Meditation, Personal Counselling and Mentoring etc.,

| Name of the capability enhancement scheme | Date of implementation | Number of students enrolled | Agencies involved |
|---|------------------------|-----------------------------|---|
| Soft skill development | 02/07/2018 | 1123 | Training and Placement Cell, KVCET |
| Remedial Classes | 02/07/2018 | 255 | Faculty members of respective department |
| Language lab | 02/07/2019 | 309 | Ms. K. Sharmila Jane, English Department |
| Bridge courses | 17/08/2018 | 169 | Faculty member of SH, KVCET |
| Yoga | 21/06/2018 | 150 | Dr. Saravanan, HoD of MCA/ UGC |
| Personal Counseling | 11/02/2019 | 15 | Dr. Sethuraman , Karpaga Vinayaga Institute of Medical Sciences |
| Mentoring | 02/07/2018 | 1123 | Mentors of respective department |
| View File | | | |

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

| Year | Name of the scheme | Number of benefited students for competitive examination | Number of benefited students by career counseling activities | Number of students who have passed in the comp. exam | Number of students placed |
|---|--------------------|--|--|--|---------------------------|
| No Data Entered/Not Applicable !!! | | | | | |

[View File](#)

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

| Total grievances received | Number of grievances redressed | Avg. number of days for grievance redressal |
|---------------------------|--------------------------------|---|
| 1 | 1 | 7 |

5.2 – Student Progression

5.2.1 – Details of campus placement during the year

| On campus | | | Off campus | | |
|--|---------------------------------|---------------------------|---|---------------------------------|---------------------------|
| Name of organizations visited | Number of students participated | Number of students placed | Name of organizations visited | Number of students participated | Number of students placed |
| Visionary RCM, Sutherland and Global Services, Redmarbles, Sutherland, T SMT, Yamaha, Taiwan Surface Mounting Technology, Geesys Technology (INDIA) pvt. Ltd, Global Management Solution, JBM Auto Systems Private Limited, SNJ Distillers Pvt Ltd, Rane | 826 | 226 | EPISOURCE, PENTAGON MEDICAL SYSTEMS, SUNSHINE BIOMEDICAL SOLUTIONS, SHREE IMAGING TECHNOLOGIES, APPASAMY ASSOCIATES, ULTRASERVE SYSTEMS, INFINITY MEDICARE PVT. LTD., MEDIOTEK HEALTH SYSTEMS, FIRST SOURCE SOLUTIONS, BIONATRIUM MEDICAL CARE PVT LTD, C | 215 | 78 |

[View File](#)

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

| Year | Number of students enrolling into higher education | Programme graduated from | Department graduated from | Name of institution joined | Name of programme admitted to |
|------|--|--------------------------|---------------------------|---|-------------------------------|
| 2019 | 1 | Biomedical Engineering | Biomedical Engineering | Panimalar College of Engineering | MBA |
| 2019 | 5 | Biotechnology | Biotechnology | Karpaga Vinayaga College of Engineering and | MTech |

| | | | | | |
|---------------------------|---|------------------------|------------------------|--|-------|
| | | | | Technology | |
| 2019 | 1 | Biotechnology | Biotechnology | Cape Breton University, Canada | MS |
| 2019 | 1 | Mechanical Engineering | Mechanical Engineering | Karpaga Vinayaga College of Engineering and Technology | ME |
| 2019 | 1 | Computer Applications | Computer Applications | Bharth University | MPhil |
| View File | | | | | |

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

| Items | Number of students selected/ qualifying |
|---------------------------|---|
| GMAT | 1 |
| Any Other | 3 |
| Any Other | 1 |
| View File | |

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

| Activity | Level | Number of Participants |
|--|---------------------|------------------------|
| Hockey | Intramural Level | 72 |
| Volley Ball | Intramural Level | 120 |
| Foot ball | Intramural Level | 72 |
| Cricket | Intramural Level | 80 |
| Throw ball | Intramural Level | 60 |
| Hand ball | Intramural Level | 60 |
| Ball badminton | Intramural Level | 80 |
| Track events | Intramural Level | 145 |
| Tennis | Intramural Level | 12 |
| Shuttle Badminton | Intramural Level | 24 |
| Carrrom | Intramural Level | 24 |
| Table Tennis | Intramural Level | 24 |
| Chess | Intramural Level | 24 |
| Kabaddi | Intramural Level | 60 |
| Kho - Kho | Intramural Level | 60 |
| AU Zonal level Ball Badminton (Men) Tournament | Inter Zonal Level | 15 |
| AU Zonal level Table Tennis (Men) | Inter Zonal Level | 4 |
| Skit | Institutional Level | 40 |

| | | |
|---------------------------|---------------------|-----|
| Folk dance | Institutional Level | 18 |
| Classical dance | Institutional Level | 4 |
| Western dance | Institutional Level | 32 |
| Music Western Classical | Institutional Level | 18 |
| Mime | Institutional Level | 40 |
| Short film | Institutional Level | 8 |
| Singing | Institutional Level | 10 |
| Variety events | Institutional Level | 54 |
| Quiz | Institutional Level | 12 |
| AdZap | Institutional Level | 24 |
| Club activities | Institutional Level | 145 |
| Debate | Institutional Level | 36 |
| Extempore | Institutional Level | 12 |
| Just a minute | Institutional Level | 56 |
| Drawing | Institutional Level | 254 |
| Rangoli | Institutional Level | 168 |
| Essay writing | Institutional Level | 356 |
| Paper presentations | Institutional Level | 89 |
| View File | | |

5.3 – Student Participation and Activities

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

| Year | Name of the award/medal | National/ Internaional | Number of awards for Sports | Number of awards for Cultural | Student ID number | Name of the student |
|---|-------------------------|------------------------|-----------------------------|-------------------------------|-------------------|---------------------|
| No Data Entered/Not Applicable !!! | | | | | | |
| No file uploaded. | | | | | | |

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

The institution has constituted student council and various committees with student volunteer as active members. Student Council The Student Council of our Institution is constituted in the year 201516. It provides students with opportunities to engage in cultural, educational, social and recreational activities, which are an integral part of the livinglearning community of KVCET. Students develop their talents and abilities in leadership and teamwork through their participation. The Student President, Vice President and Secretary are members of IQAC. The Student Council is responsible for all student activities. They are communicating between the Principal, faculty and the student body as a whole. The Student President, Vice President and Secretary are frequently contact the Principal to evaluate the plan of student and Society activities in college.

5.4 – Alumni Engagement

5.4.1 – Whether the institution has registered Alumni Association?

Yes

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

5.4.2 – No. of enrolled Alumni:

371

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

185500

5.4.4 – Meetings/activities organized by Alumni Association :

10 alumni meetings were organized by the department and institution. Alumni have assisted the placement and arrangement of industrial visit and inplant training

CRITERION VI – GOVERNANCE, LEADERSHIP AND MANAGEMENT

6.1 – Institutional Vision and Leadership

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

1. Peer group project students and faculty members are involved in innovative projects implementation 2. ED cell activities students and faculty members are actively involved in ED activities, awareness programmes, to encourage students to become entrepreneurs.

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

No

6.2 – Strategy Development and Deployment

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

| Strategy Type | Details |
|----------------------------|--|
| Curriculum Development | Curriculum is developed by the Anna University, Chennai. If any suggestions, queries received from stakeholders, it will be forwarded to the affiliating university through proper channel. |
| Teaching and Learning | Curriculum delivery is implemented in the class room through black board, AV aids, demonstration methods and participative learning methods. Apart from this regular mode of teaching, conducted guest lectures, seminars, conferences, workshops, value added course and industrial visits for learning the current trends of the subjects. Peer group projects and mini projects are encouraged to learn the subjects in practical approach. |
| Examination and Evaluation | Throughout the year class tests were |

conducted and evaluated immediately and in the subsequent week scrutinizing the paper by the committee. As per the academic calendar Continuous Internal Assessment and Model Examination were conducted. These examinations conducted at the end of every semester will give confidence to the students to face the University Examinations. The results were published in the notice board and also intimate to the parents through letter. As per the University norms, 20 marks are awarded as internal marks and remaining 80 marks are awarded external marks both theory and practical.

Research and Development

Research and Development Cell regularly organizes the meeting regarding conduct of research by the faculty and students. The cell is also insisting faculty to apply proposal for funding support to conduct research and outreach activities by faculty and students. The institution is also providing seed money for conduct the research work based on the merits of the research problem.

Library, ICT and Physical Infrastructure / Instrumentation

The institute has sufficient class rooms enabled with ICT facilities. All the students can access the desktop with internet facility to learn the online courses (Eg. NPTEL) during evening hours and also provide the facility in the hostels. The library is regularly updated with the text books, reference books, magazines, journals and news papers. ejournals and ebooks can be accessed through DELNET.

Human Resource Management

The institute is monitoring the teaching and non teaching staff strength of these responsibilities. The strength of the faculty are maintained as per the norms of the statutory body. Every academic year the appraisal is carried out for all the faculty based on their academic performance of the previous academic year. Junior Research Fellow and Senior Research Fellow are recruited for the Projects as per norms. Administrative and clerical staffs are recruited to the concerned departments and all are governed by the services values of the institution.

Industry Interaction / Collaboration

The institute has signed more than 40 MoUs for exchange of work, consultation, guest lectures, industrial visit etc.,

| | |
|-----------------------|--|
| Admission of Students | The institute has admitted the students as per the State Government norms. 65 of students are filled by single window system and 35 students are filled by institution. Institution is admitting the students who fulfill the minimum criteria of the prescribed norms specified by the government |
|-----------------------|--|

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

| E-governance area | Details |
|-------------------|--|
| Examination | All the students detail are uploaded in the Web portal. Assessment and attendance details are uploaded periodically. Hall tickets and university attendance are generated through online. Absentees of practical and theory examination are updated immediately after 30 minutes after commencement of examination. Results are published through online |

6.3 – Faculty Empowerment Strategies

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

| Year | Name of Teacher | Name of conference/ workshop attended for which financial support provided | Name of the professional body for which membership fee is provided | Amount of support |
|------|-----------------------|---|---|-------------------|
| 2018 | Ms. Shree Rama | National Conference on Future Trends in Marine Biotechnology | NA | 3500 |
| 2018 | Ms. Shree Rama | Two days National level workshop on Intellectual Property rights and art of writing funding proposals and journal articles | NA | 1500 |
| 2018 | Mr. K. Prakash | Fundamentals of Machine learning for image processing using MATLAB and PYTHON | NA | 1300 |
| 2018 | Dr. K. Jayaprakash | International Conference CRTMMT | NA | 1500 |

| | | | | |
|------|---------------------|--|----|------|
| 2018 | Dr.V.Karthikeyan | National Conference Personalized medicine nutrition An insight | NA | 1000 |
| 2018 | Mr. R. Magesh | National Conference Personalized medicine nutrition An insight | NA | 1000 |
| 2018 | Dr.S.Mohanasundaram | International Conference CRTMMT | NA | 1500 |
| 2018 | Dr.S.Mohanasundaram | National Conf Biochemistry Therapeutics of Diabetes cancer treatment challenges | NA | 1000 |
| 2018 | A. Sheela Devi | International Conference CRTMMT | NA | 1500 |
| 2018 | Dr.K. Jayaprakash | National Conf Biochemistry Therapeutics of Diabetes cancer treatment challenges | NA | 1000 |
| 2018 | Ms.R.Priyavarshiny | Recent Trends in Civil Engineering | NA | 1000 |
| 2018 | Mrs.S.R.Lavanya | Recent Trends in Civil Engineering | NA | 1000 |
| 2018 | Mr.P.Vinothkumar | International Conference on Innovations in Power and Advanced Computing Technologies (iPACT2019) | NA | 5000 |
| 2018 | Mrs. S. Bellarose | International Conference on Advances In Power Engineering And Control Technology - APECT | NA | 5000 |
| 2018 | T.Perarasi | Emerging trends | NA | 5000 |

in electronics,
instrumentation
, automation
and control

[View File](#)

6.3.2 – Number of professional development / administrative training programmes organized by the College for teaching and non teaching staff during the year

| Year | Title of the professional development programme organised for teaching staff | Title of the administrative training programme organised for non-teaching staff | From date | To Date | Number of participants (Teaching staff) | Number of participants (non-teaching staff) |
|------|---|---|------------|------------|---|---|
| 2018 | Four days Faculty Development Training Programme on "OBT552 Basics of Bioinformatics" | | 18/12/2018 | 21/12/2018 | 25 | 0 |
| 2018 | Workshop on Advance Biotechnological tools and its Applications | Workshop on Advance Biotechnological tools and its Applications | 10/12/2019 | 12/12/2019 | 20 | 3 |
| 2019 | Workshop on Scope of Genomics and Proteomics in Biological Research | | 17/06/2019 | 19/06/2019 | 20 | 0 |
| 2018 | Short term Training on Biological Instruments | Short term Training on Biological Instruments | 19/11/2019 | 21/11/2019 | 8 | 3 |
| 2018 | Faculty Development Programme on CE8491 Soil Mechanics | | 13/12/2018 | 15/12/2018 | 20 | 0 |
| 2018 | SIX DAYS FDTP ON OM D551Basics | | 17/12/2018 | 22/12/2018 | 18 | 0 |

| | | | | | | |
|---------------------------|---|--|------------|------------|----|----|
| | of Biomedical Instrument ation | | | | | |
| 2019 | SIX DAYS FDTP ON EE 8402Transm ission and Distributi on | | 10/06/2019 | 15/06/2019 | 20 | 0 |
| 2018 | Faculty De velopment Training Programme on digital electronic s | | 18/06/2018 | 20/06/2018 | 25 | 0 |
| 2018 | Workshop on Networking for Technical Staff | | 07/05/2018 | 11/05/2018 | 0 | 12 |
| View File | | | | | | |

6.3.3 – No. of teachers attending professional development programmes, viz., Orientation Programme, Refresher Course, Short Term Course, Faculty Development Programmes during the year

| Title of the professional development programme | Number of teachers who attended | From Date | To date | Duration |
|--|---------------------------------|------------|------------|----------|
| Four days Faculty Development Training Programme on "OBT552 Basics of Bioinformatics" | 9 | 17/12/2018 | 22/12/2018 | 7 |
| Fundamentals of Machine learning oofr image processing using MATLAB and PYTHON | 8 | 20/08/2018 | 25/08/2018 | 7 |
| FDP on Methodolgoies and Practices for Profitable Research and through Patents IPR | 7 | 10/12/2018 | 14/12/2018 | 5 |
| Six Days FDTP on EE 8501- | 4 | 21/05/2018 | 26/05/2018 | 6 |

| | | | | |
|--|---|------------|------------|----|
| Power System Analysis | | | | |
| Six Days FDTP on EE8551 Microprocessors Microcontrollers | 5 | 18/06/2018 | 23/06/2018 | 6 |
| Two Week FDP on EE8402 Transmission and Distribution | 4 | 03/12/2018 | 15/12/2018 | 14 |
| EE6009 Power Electronics for Renewable Energy systems | 4 | 26/11/2018 | 02/12/2019 | 8 |
| View File | | | | |

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

| Teaching | | Non-teaching | |
|-----------|-----------|--------------|-----------|
| Permanent | Full Time | Permanent | Full Time |
| 0 | 29 | 0 | 4 |

6.3.5 – Welfare schemes for

| Teaching | Non-teaching | Students |
|---|--|---|
| EPF, Maternity Leave, Free Transportation, Marriage Leave, Sponsorship for cocurricular activities, Sponsorship for Higher Education, Family Quarters, Admission Facility for wards, Group Insurance, Free Bachelor Accommodation | EPF, Maternity Leave, Free Transportation, Marriage Leave, Sponsorship for Higher Education, Family Quarters, Admission Facility for wards, Group Insurance, Free Bachelor Accommodation, Free Lunch | Group Insurance, Scholarships, Financial Assistance for Students Exchange Programme |

6.4 – Financial Management and Resource Mobilization

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

| |
|--|
| Yes. The institution is conducts regular internal and external financial audits. ? The accounts department is internally carried out internal audit of daily transactions done. ? The annual audit is carried out by the chartered accountant. ? The income tax returns, professional taxes, institutional taxes and other taxes are being remitted by the Finance Officer. ? Institutional expenditures are met out for the tuition fee collected from the students |
|--|

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

| Name of the non government funding agencies /individuals | Funds/ Grnats received in Rs. | Purpose |
|--|-------------------------------|---------|
| No Data Entered/Not Applicable !!! | | |
| No file uploaded. | | |

6.4.3 – Total corpus fund generated

0

6.5 – Internal Quality Assurance System

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

| Audit Type | External | | Internal | |
|----------------|----------|--|----------|---------------------------|
| | Yes/No | Agency | Yes/No | Authority |
| Academic | No | | Yes | Principal |
| Administrative | Yes | NP Ananthakumar, Chartered Accountant | Yes | Administrative Officer |

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

NA

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

Quality improvement programme for supporting staff was conducted 3 days programmes for supporting staff on personality and overall development One day professional development program for supporting staff

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

MSME Incubation centre initiatives taken to register IIPC Revival of IIPC activities involving more industry personnel NIRF Steps are taken to apply for NIRF ranking

6.5.5 – Internal Quality Assurance System Details

| | |
|--|-----|
| a) Submission of Data for AISHE portal | Yes |
| b) Participation in NIRF | Yes |
| c) ISO certification | No |
| d) NBA or any other quality audit | No |

6.5.6 – Number of Quality Initiatives undertaken during the year

| Year | Name of quality initiative by IQAC | Date of conducting IQAC | Duration From | Duration To | Number of participants |
|------|--------------------------------------|-------------------------|---------------|-------------|------------------------|
| 2018 | Outreach Programmes | 29/06/2018 | 20/08/2018 | 28/09/2018 | 1100 |
| 2018 | PMKVYTI Programme | 29/06/2018 | 29/09/2018 | 31/12/2019 | 250 |
| 2018 | Mini Projects | 29/06/2018 | 21/11/2018 | 21/01/2019 | 350 |
| 2018 | EDC | 19/12/2018 | 25/12/2018 | 23/03/2019 | 650 |
| 2018 | Initiative for New Research Projects | 29/06/2018 | 15/11/2018 | 14/02/2019 | 10 |
| 2018 | Incubation Centre | 19/12/2018 | 01/04/2019 | 10/04/2019 | 25 |

[View File](#)

CRITERION VII – INSTITUTIONAL VALUES AND BEST PRACTICES**7.1 – Institutional Values and Social Responsibilities**

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

| Title of the programme | Period from | Period To | Number of Participants | |
|---|-------------|------------|------------------------|------|
| | | | Female | Male |
| Drawing competition on women rights | 20/07/2018 | 20/07/2018 | 30 | 5 |
| Violence against women in domesticity and in the external world | 20/08/2018 | 20/08/2018 | 50 | 8 |
| Special lecture on the prevailing health issues of women today | 29/09/2018 | 29/09/2018 | 80 | 3 |
| Rally on the importance of women education | 08/03/2019 | 08/03/2019 | 150 | 10 |

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

Percentage of power requirement of the University met by the renewable energy sources

36.4

7.1.3 – Differently abled (Divyangjan) friendliness

| Item facilities | Yes/No | Number of beneficiaries |
|-------------------------|--------|-------------------------|
| Physical facilities | Yes | 1 |
| Provision for lift | Yes | 1 |
| Ramp/Rails | Yes | 1 |
| Rest Rooms | Yes | 1 |
| Scribes for examination | Yes | 1 |

7.1.4 – Inclusion and Situatedness

| Year | Number of initiatives to address locational advantages and disadvantages | Number of initiatives taken to engage with and contribute to local community | Date | Duration | Name of initiative | Issues addressed | Number of participating students and staff |
|------|--|--|------------|----------|--------------------|------------------------------|--|
| 2018 | 1 | 1 | 22/11/2018 | 6 | Organic Farming | Production of Bio Fertilizer | 100 |

7.1.5 – Human Values and Professional Ethics Code of conduct (handbooks) for various stakeholders

| Title | Date of publication | Follow up(max 100 words) |
|------------------------------|---------------------|--|
| Human Values Time Management | 08/12/2018 | Case studies and Activity based on Human Values are given. Students are advised to conduct the activities in the classes and advised to complete the case studies. |
| Human Values Speech | 05/12/2018 | It is advised to maintain continuity in subsequent semesters. It is suggested that at the start of the subsequent semesters, three days be set aside for full days of activities related to follow up. Faculties are advised to conduct the activities in the classes and advised to show inspiring movies. |
| Human Values Rally | 08/09/2018 | It is advised to maintain continuity in subsequent semesters. It is suggested that at the start of the subsequent semesters, three days be set aside for full days of activities related to follow up. Faculties are advised to conduct the activities in the classes and advised to arrange collective art work and cultural programme. |
| Speech on fundamental rights | 12/09/2018 | Faculties are advised to conduct the activities in the classes and advised to organize lectures by eminent people |
| Human Values Speech | 31/01/2019 | Faculties are advised to conduct the activities in the classes and advised to organize various competitions like speech and essay writing. |
| Motivational Speech | 19/12/2018 | Case studies and Activity based on Human Values are given. Students are advised to conduct the activities in the classes and advised to complete the case studies. |
| Motivational Speech | 29/12/2018 | Faculties are advised to conduct the activities in |

| | | |
|-------------------|------------|---|
| | | the classes and advised to organize lectures by eminent people |
| Road Safety Rally | 09/01/2018 | Faculties are advised to conduct the activities in the classes and advised to organize various competitions like speech ,Drawing and essay writing. |

7.1.6 – Activities conducted for promotion of universal Values and Ethics

| Activity | Duration From | Duration To | Number of participants |
|-----------------------------|---------------|-------------|------------------------|
| Ramzan | 13/06/2018 | 13/06/2019 | 88 |
| Parents Day | 20/07/2018 | 20/07/2018 | 520 |
| Independence Day (My India) | 15/08/2018 | 15/08/2018 | 720 |
| Teachers Day | 05/09/2018 | 05/09/2018 | 230 |
| Vinayagar Chaturthi | 12/09/2018 | 12/09/2018 | 220 |
| Golu | 04/10/2018 | 04/10/2018 | 320 |
| World Food Day | 16/10/2018 | 16/10/2018 | 74 |
| Diwali | 12/11/2018 | 12/11/2018 | 550 |
| Christmas | 24/12/2018 | 24/12/2018 | 170 |
| New Year | 31/12/2018 | 31/12/2019 | 620 |
| Pongal Celebration | 11/01/2019 | 11/01/2019 | 850 |
| Republic Day | 26/01/2019 | 26/01/2019 | 380 |

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

| |
|---|
| Tree Plantation Program |
| Plastic usage is prohibited |
| Solar Power installed |
| Encouraged the students to use bicycles with GPS provided |
| Rainwater Harvesting structures are constructed in the campus |
| Initiatives for solid waste management is implemented |

7.2 – Best Practices

7.2.1 – Describe at least two institutional best practices

| |
|--|
| <p>Best Practice I Title of the Practice Peer Group activities - Promoting innovative and novel ideas to live projects Objectives of the Practice • To create innovative thinking for design and development • To achieve ideas and design into prototype product by the students to build confidence in them • To inculcate research attitude among students The Context Contextual Features/ challenging issues to be addressed • The features of Peer Group activities are ? Literature survey ? Identification of product and related work done ? Innovation, novelty and originality ? Design and fabrication of prototype model ? Product development ? Realtime implementation and application ? Patent and copyright One of the challenging issues is to find sufficient time for the project during academic activities The Practice • The potential faculty member identifies the interested students for the Peer Group, comprising of students</p> |
|--|

of IV, III, II year UG and a PG in their discipline of Engineering / Technology. • The area of interest and in turn title of the project with budget involved is presented to the evaluation committee. • The committee approves the project based on novelty, innovation, quality, viability application oriented and stipulated time of completion. • After approval, Peer group students will carry out design, fabrication, testing and develop a prototype working model. •

The Peer Groups present their work in a phased manner to the committee for suggestions and improvements to be incorporated. • The committee will review and evaluate periodically the progress made for the successful implementation of the project. • The completed projects will be demonstrated by all the Peer Groups and by merit, awards will be presented to the best 3 projects with the cash prize. • Uniqueness in this practice is that the projects are carried out, apart from the prescribed curriculum by the affiliating University, in the stipulated time. Evidence of Success • During the course of implementation of the projects, the peer groups exhibit skills of communication, working effectively as a team, engaging them in selfevaluation and reflection, bringing out graphical visual representation and exercising creative and intuitive instincts. • All the students get adequate knowledge and skills as a platform for doing their final year projects (curriculum based) effectively. • Based on the peer group projects, the students of automobile engineering have developed solar powered bike, solar powered car and self balancing bike and won awards in

National Level competitions during the year 201516, 201516, 201617 respectively. • As an innovative activity mini heater has been designed and fabricated by Student of ECE in the year 201213 and won Limca award. • The

Department of Biomedical Engineering students developed sweat based glucometer.

Problems Encountered and Resources Required The Peer Group students are hard pressed with limited time to complete their Peer Group project apart from the time schedule on assessments and University examinations as a part of their curriculum study as prescribed by the affiliating University. In certain cases, financial constraints are encountered by the students to meet out expenses on projects. Best Practice II Title of the Practice Students Mentoring System -

The major objective of the mentoring is to facilitate the academic, Emotional, Social and cognitive development of the students to empower them in their learning and personal development. Objectives of the Practice • To facilitate academic, social and cognitive development of the students to empower them in their learning and personal development • To make students emotionally stable in sensitive situations • To promote clarity in thinking and decision making among students The Context Contextual Features/ challenging issues to be addressed • The features of students mentoring activities are • Collection of student's personal details • Identification of issues for a particular student

• Counseling and suggestions • Parent - mentor interactions • Psychosocial counseling, if needed • Remedial suggestions regular observations for further improvement One of the challenging issues is to counsel student from the very poor economic background from drop out. The Practice Academic counseling • 15

20 students are assigned with each mentor and are counseled on academic issues during the mentor hour as scheduled. • Their doubts are cleared and encouraged to solve many Question Banks Personal Counseling • Student counselor meets the students and parents on personal issues and resolves them. • Sensitive cases

are referred to Chief Mentor, Gender Issue Cell/ Women Empowerment Cell for further counselling. Career Counseling • Mentors counsel students on career guidance, industrial needs, opportunities available, management and professional ethics, Entrepreneurship, etc. Psychosocial Counseling • Dr.

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

adversity. • Very sensitive cases are informed to their parents for remedial measures. • Counseling will be given on all working days. Parents can meet counselor with the prior appointment during all working days. Evidence of

Success • Improvements in performance in the daily test, internal assessments, Model and University examinations are evidence of the success of student's involvement in the regular learning process. • The regularity to college, involvement in cocurricular activities and committed towards the academic work and discipline of the students after counseling is the evidence of their positive behavioral changes. Problems Encountered and Resources Required • The students have limited time to interact with their mentor apart from the time schedule on the timetable. • Inadequate availability of time for faculty members to aid students' community as mentor beyond college hours.

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

<https://www.kvcn.edu.in/naac-3/>

7.3 – Institutional Distinctiveness

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

The Human values and social responsibilities are inculcated among the students for socioeconomic transformation. Inculcation of Human values with Social Responsibility - The major objectives of this practice is to create awareness and educate needy people of nearby downtrodden community on personal health and environment, nutrition and hygiene, energy resources management. Goals To create awareness on personal health and nutrition among school children and youth of the nearby villages To create awareness on hazards of chemicals and fertilizers and the uses of organic farming among farming community To create awareness among people of the adopted village about Swachh Bharat, Save Electricity, Water Conservation, Swachh Pakhwada, etc. Key activities Organizing Medical/Dental camps in nearby villages regularly Conduct of Awareness Rallies in nearby townships and villages Conduct of NSS camps for community development KVCET - MTU Enterprise programmes Conduct of blood donation camps in collaboration with Rotary / Lions club Yearly training programme on organic farming for farmers Medical / Dental Camps Every year, medical and dental camps are organized in the adopted village in association with Karpaga Vinayaga Institute of Medical Sciences Karpaga Vinayaga Institute of Dental Sciences to create awareness on personal health among rural community. Organizing blood donation camps in collaboration with Lions / Rotary clubs. Awareness rallies The institution is regularly organizing awareness rallies on Swachh Bharath, Swachh Pakhwada, Road Safety, Right to Vote, Save Electricity, Avoid Plastics, Water Conservation, Green Environment, Dengue fever in nearby Townships and villages. NSS / YRC activities In the adopted village, NSS volunteers are involved in creating awareness on personal health, clean green environment. The campus of the Govt. school and Temples are cleaned by the volunteers during the camp. YRC periodically organizes Awareness programmes on Road Safety, Traffic Rules, Blood donation, Literacy, etc. KVCET - MTU Enterprise programme KVCET - MTU Enterprise is an initiative of our institution through the MoU signed with Michigan Technological University, USA for mutual exchange of students. Through this programme, the students of MTU, USA adopt a village and involved in research and welfare activities related to environmental management and green environment along with our students. Students have developed a natural water purification system for the people in the adopted village Kunnangkulathur of Vaiyavoor Panchayat, Kanchipuram Dist. Training Programme for farmers' community Every year, the institution is organizing special training programme for the nearby farming community and creating awareness on Organic farming and their advantages and the ill effects of chemicals, fertilizers and pesticides. Outcome Barriers The continuous support and active cooperation extended by the local community for these programmes are the evidence of our success. Increase in the number of students

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

Provide the weblink of the institution

<https://www.kvcn.edu.in/naac-3/>

8.Future Plans of Actions for Next Academic Year

Academics The institution is committed to academic excellence and it is planned to improve further the academic standards in the forthcoming year. Plans are (i) to improve the pass percentage in both undergraduate and post graduate programmes, (ii) to offer more number of value added courses especially in the areas of emerging technologies such as artificial intelligence, machine learning, Big data analytics, Internet of Things, 3D Printing, renewable energy, etc. The institution is planned to apply for NBA accreditation for more number of programmes. **Research** It is planned to encourage students and faculty members to work on innovative areas under Peer group projects by providing seed money for the meritorious projects. To encourage faculty and scholars to submit maximum number of project proposals to get funding from government agencies. It is planned to encourage faculty to publish more number of research papers in scopus indexed/ UGC listed journals to improve the hindex of the institution. **Entrepreneurship** The institution is decided to further strengthen the Entrepreneurship Development activities by (i) promoting more number activities among students such as awareness programmes, trainings, etc, (ii) to obtain grant from EDII, Ahmedabad for various activities to encourage students to become Entrepreneurs. Similarly, more number of activities are planned under MSME Incubation Centre and students will be encouraged and supported to submit more number of innovative ideas to get financial support. The institution is planned to produce more patents through innovative projects.