



Yearly Status Report - 2018-2019

Part A

Data of the Institution

1. Name of the Institution		ARASU ENGINEERING COLLEGE
Name of the head of the Institution		Dr. B. Gopi
Designation		Principal
Does the Institution function from own campus		Yes
Phone no/Alternate Phone no.		0435-2777777
Mobile no.		9443681418
Registered Email		viceprincipal@aec.org.in
Alternate Email		arasuengg@gmail.com
Address		Chennai Main Road
City/Town		Kumbakonam
State/UT		Tamil Nadu
Pincode		612501
2. Institutional Status		

Affiliated / Constituent	Affiliated
Type of Institution	Co-education
Location	Rural
Financial Status	private
Name of the IQAC co-ordinator/Director	T. Balamurugan
Phone no/Alternate Phone no.	04352777788
Mobile no.	7667443333
Registered Email	viceprincipal@aec.org.in
Alternate Email	arasuengg@gmail.com

3. Website Address

Web-link of the AQAR: (Previous Academic Year)	http://aec.org.in/naac/
4. Whether Academic Calendar prepared during the year	Yes
if yes,whether it is uploaded in the institutional website: Weblink :	http://aec.org.in/#

5. Accrediation Details

Cycle	Grade	CGPA	Year of Accrediation	Validity	
				Period From	Period To
1	B	2.44	2018	16-Aug-2018	16-Aug-2023

6. Date of Establishment of IQAC	03-Jun-2013
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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
Workshop on Modern Teaching Tools and Techniques	22-Jun-2018 1	73
FDP on Outcome Based Education	11-Dec-2018 1	54

Seminar on Rubrics for Project Evaluation	05-Apr-2019 1	35
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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
Institution	PMKVY	Government of India	2018 1	5595000
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9. Whether composition of IQAC as per latest NAAC guidelines:

Yes

Upload latest notification of formation of IQAC

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10. Number of IQAC meetings held during the year :

4

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)

i) IQAC has organised workshop for academic staff on the topic "Modern Teaching Tools and Techniques" on 22.06.2018. It gave an idea of about the importance of usage of technology for better teaching learning experiences. ii) The IQAC submitted data for the National Institutional Ranking Framework as required by „Ministry of Human Resource Development Department of Higher Education New Delhi? iii) IQAC has organised FDP on "Outcome Based Education" on 11.12.2018. It gave the knowledge about the course outcomes and Programme outcomes. iv) IQAC organises "Effective Mentoring System" that facilitates an interface between students and Staff. It helped the college to identify the concerns of students on various facilities and they were suitably addressed by the officials for the sake of enhancing quality of teaching and learning. v)) IQAC has organised induction programme on "Rubrics for Project Evaluation" on 05.04.2019. It gave an idea about the direct and indirect Assessment methods for project evaluation. vi) IQAC has completed student evaluation of staff, self evaluation of staff and peer evaluation of newly recruited staff and consolidated the report for further decisions from the management through which the quality of teaching is sustained and enhanced.

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

Plan of Action	Achivements/Outcomes
Introduction of Unitwise test	Increased result
Special coaching to the identified slow learners	Reduction in number of arrears
Impart training on employability skills, entrepreneurship and social responsibility	Improved self-employment capability and commitment towards social servicess
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14. Whether AQAR was placed before statutory body ?

Yes

Name of Statutory Body	Meeting Date
Governing Council Meeting	26-Jun-2019

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

Yes

Date of Visit

21-Dec-2018

16. Whether institutional data submitted to AISHE:

Yes

Year of Submission

2018

Date of Submission

05-Jan-2019

17. Does the Institution have Management Information System ?

Yes

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

Management Information System is implemented using INSPRO PLUS Software by PALPAP. The modules currently operated in the software are student academic manager, student attendance management, staff academic management, mark analysis, examination cell management and customised report generation.

Part B

CRITERION I – CURRICULAR ASPECTS

1.1 – Curriculum Planning and Implementation

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

The Institution is equipped with extensive action plan for the implementation of the Curriculum. Various Committees have been formed for effective implementation and monitoring of the Curriculum. The committees are such as Institution Development Committee, Budget Committee, Purchase Committee, Library Committee, Academic Calendar Committee, Academic Committee, Periodical Tests & Performance Analysis Committee. Meetings are conducted by the principal periodically with all Heads of the Department to evolve various strategies for effective implementation of the Curriculum. Academic Calendar is prepared with details of the activities of the Academic Year. Schedule of Department activities is prepared which includes Industrial Visits, Guest Lectures and Department newsletter. Subject allotment is done based on proficiency matrix, experience and performance of the faculty in previous years. Time table framed with provision for Value Added Courses (VAC), placement and training, tutorial and class test. Lesson Plan, Question Bank, Lab Manuals are planned in advance. The attendance and performance of the students are monitored by the Class advisors, Student Counselors and HODs. The student's performance and attendance is communicated to the parents regularly. Slow learners and for students having average learning capability, remedial classes are conducted after the college working hours. NPTEL - E-learning through online Web and Video courses in Engineering, Science and humanities streams are used by the faculty members. E-learning materials have been developed by our faculties for all the subjects in the curriculum to provide 24x7 learning Environment to our students through Arasu Virtual Learning Centre for Technology, Engineering and Management (AVLC-TEAM) which operates in MOODLE platform. Allocation of subject, preparation of lesson plan and lab manuals is done at the beginning of the semester. Augmented topics are included in the lesson plan and delivered. Monitoring of course delivery and syllabus completion is done through class committee meetings, feedbacks and regular academic audits. A class advisor is appointed to monitor the conduct of classes and student performance. Systematic examination process, standard question papers, proper and prompt evaluation and periodical dispatch of reports to parents. If the same subject is handled by more than two faculty members for various sections of students a coordinator is appointed to monitor the portion completion and the performance of all the faculty members handling the subject. Guest lectures, seminars, Industrial visits and training programs are conducted to supplement the curricular inputs. Laboratory as per the requirements of the Curriculum is ensured. Effective delivery in analytical subjects is ensured by conducting tutorial classes as per time table.

1.1.2 – Certificate/ Diploma Courses introduced during the academic year

Certificate	Diploma Courses	Dates of Introduction	Duration	Focus on employability/entrepreneurship	Skill Development
Mason Concrete		01/11/2018	90	Employability	Skill Development
Construction Laboratory and Field Technicians		01/11/2018	90	Employability	Skill Development
Optical Fibre		01/11/2018	60	Employability	Skill Development

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

Name of programmes adopting CBCS	Programme Specialization	Date of implementation of CBCS/Elective Course System
BE	Automobile	02/07/2018
BE	Civil	02/07/2018
BE	Computer Science and Engineering	02/07/2018
BE	Electronics and Communication Engineering	02/07/2018
BE	Electrical and Electronics Engineering	02/07/2018
BE	Mechanical Engineering	02/07/2018
ME	Computer Science and Engineering	02/07/2018
ME	VLSI	02/07/2018
ME	Power Electronics and Devices	02/07/2018

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

	Certificate	Diploma Course
Number of Students	183	245

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
CCNA	09/07/2018	21
IT Essentials	09/07/2018	15
.Net	09/07/2018	48
PLC SCADA	14/02/2019	23
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1.3.2 – Field Projects / Internships under taken during the year

Project/Programme Title	Programme Specialization	No. of students enrolled for Field Projects / Internships
BE	Civil	15
BE	Computer Science and Engineering	14
BE	Mechanical Engineering	4

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

Feed back is obtained from the stakeholders and it is analysed for the growth of the institution. A structured feedback form is issued to the students and responses are collected from them. Certain parameters are laid to get the feedback from the students such as teaching learning process, content delivery, infrastructure, and understanding of the subject. The students record their response and their inputs are taken into account, analyzed and conclusions are arrived for the betterment of the students and institution. The same way feedback forms are distributed and collected from teachers, parents, employers and alumni. The responses are recorded and analysed. The suggestions are taken into account and implemented for the development for the institution.

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	9	6
BE	Civil Engineering	60	30	26
BE	Computer Science and Engineering	120	76	70
BE	Electronics and Communication Engineering	120	28	25
BE	Electrical and Electronics Engineering	60	32	27
BE	Mechanical Engineering	120	61	54
ME	Computer Science and Engineering	18	5	5
ME	VLSI	18	4	4
ME	Power Electronics and	18	3	2

Drives

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2.2 – Catering to Student Diversity

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

Year	Number of students enrolled in the institution (UG)	Number of students enrolled in the institution (PG)	Number of fulltime teachers available in the institution teaching only UG courses	Number of fulltime teachers available in the institution teaching only PG courses	Number of teachers teaching both UG and PG courses
2018	1092	30	108	9	117

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
117	90	5	8	8	15

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

Students mentoring system is available in the institution. Faculties are assigned as mentors. Each faculty is responsible for 15 students. A separate record is maintained by the faculty for every student assigned to them. They will regularly monitor the progress of the student. Students' academic activities such as attendance, internal assessment results, industrial visits, conference, symposium, and other relevant activities are monitored and recorded. The performance of the students are analyzed and informed to the parents. The low learners are given counseling, and monitored continuously. The parents are called and discussed about the students' progress. Special coaching classes are conducted for the betterment of the slow learners.

Number of students enrolled in the institution	Number of fulltime teachers	Mentor : Mentee Ratio
1122	117	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
0	0	0	0	0

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	S VIJAY	Assistant Professor	RULA AWARD
2018	M ANANDHAKUMAR	Assistant Professor	BEST NSS PROGRAMME OFFICER AWARD
2018	M ANANDHAKUMAR	Assistant Professor	BEST SOCIAL WORKER AWARD

2018	Dr R VIJAYARAGAVAN	Professor	BEST RESEARCH AWARD
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2.5 – Evaluation Process and Reforms

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

Programme Name	Programme Code	Semester/ year	Last date of the last semester-end/ year-end examination	Date of declaration of results of semester-end/ year- end examination
BE	102	II/I	18/05/2019	23/06/2019
BE	102	IV/II	17/05/2019	23/06/2019
BE	102	VI/III	03/05/2019	23/06/2019
BE	102	VIII/IV	11/04/2019	23/06/2019
BE	103	II/I	18/05/2019	23/06/2019
BE	103	IV/II	22/05/2019	23/06/2019
BE	103	VI/III	29/04/2019	23/06/2019
BE	103	VIII/IV	13/04/2019	23/06/2019
BE	104	II/I	18/05/2019	23/06/2019
BE	104	IV/II	22/05/2019	23/06/2019
BE	104	VI/III	04/05/2019	23/06/2019
BE	104	VIII/IV	29/04/2019	23/06/2019
BE	105	II/I	22/05/2019	23/06/2019
BE	105	IV/II	22/05/2019	23/06/2019
BE	105	VI/III	29/04/2019	23/06/2019
BE	105	VIII/IV	29/04/2019	23/06/2019
BE	106	II/I	21/05/2019	23/06/2019
BE	106	IV/II	22/05/2019	23/06/2019
BE	106	VI/III	02/05/2019	23/06/2019
BE	106	VIII/IV	29/04/2019	23/06/2019
BE	114	II/I	18/05/2019	23/06/2019
BE	114	IV/II	22/05/2019	23/06/2019
BE	114	VI/III	04/05/2019	23/06/2019
BE	114	VIII/VI	16/04/2019	23/06/2019
ME	405	II/I	22/05/2019	23/06/2019
ME	405	IV/II	21/05/2019	06/06/2019
ME	415	II/I	25/05/2019	23/06/2019
ME	415	IV/II	21/05/2019	06/06/2019
ME	419	II/I	22/05/2019	23/06/2019
ME	419	IV/II	21/05/2019	06/06/2019
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2.5.2 – Reforms initiated on Continuous Internal Evaluation(CIE) system at the institutional level (250 words)

The stakeholders are informed of the evaluation process. The stakeholders are aware of the class test and internal assessment tests schedule from the college Calendar published during every academic year. The circulars conveying vital information from the university and department are circulated in classrooms and displayed in College notice board. Examination schedules are also displayed on the notice boards and available on the website of the affiliating university. The evaluation process is discussed thoroughly in the class committee meetings and department staff meetings. The changes brought by the University if any, are informed to the stakeholders. A question bank is formed from previous year university papers along with answer key and is given to the students. The slow learners are identified and special coaching classes are conducted. After completion of internal assessment tests, the progress reports are sent to their parents. The evaluated answer scripts are given to the students to make them aware of the mistakes committed by them. Comprehensive result analysis is performed at the end of each test / examination to monitor the student performance. The results are discussed in the class committee meetings to take corrective measures. The mechanism of the system is explained to the students by the advisors. The marks allotted for assignments, seminars and tests for the university internal evaluation are informed to the students through the advisors and the respective teachers. The pattern of question paper is also informed to the students. Model tests based on university pattern are also conducted.

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

Academic calendar is prepared well in advance before the commencement of the classes. All the academic activities are planned and executed as per the academic calendar plan. Internal assessment exams are also scheduled and conducted as per the schedule. Assessment exams are scheduled as per the periodical entry in the web portal of Anna University. Activities such as class committee meetings, industrial visits, seminars, conferences are scheduled and executed.

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)

<http://aec.org.in/cse-co/>

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	26	8	30.77
103	BE	Civil Engineering	69	30	43.48
104	BE	Computer Science and Engineering	64	37	57.81
105	BE	Electrical and Electronics Engineering	47	20	42.55

106	BE	Electronics and Communication Engineering	74	34	45.95
114	BE	Mechanical Engineering	105	53	50.48
405	ME	Computer Science and Engineering	3	3	100
415	ME	VLSI	6	5	83.33
419	ME	Power Electronics and Drives	9	8	88.89
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2.7 – Student Satisfaction Survey

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

<https://docs.google.com/forms/d/e/1FAIpQLSc2gv91XApRr8-M5GUXKuakNfR92tu641FWmgKfGEtC0Zj54A/viewform>

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
Minor Projects	120	TNSCST	0.07	0.07
Minor Projects	120	TNSCST	0.07	0.07
Any Other (Specify)	150	Sri Thirunavukkarasu Dhanalakshmi Educational and Charitable Trust.	0.3	0.3
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3.2 – Innovation Ecosystem

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

Title of workshop/seminar	Name of the Dept.	Date
Workshop on Prestressed Concrete Structures	CIVIL	06/10/2018
Seminar on Construction Project Management Finance	CIVIL	07/09/2018
Seminar on Recent trends in Civil Engineering	CIVIL	10/07/2018
Trends and Technologies in big data analytics	CSE	12/09/2018

Career advice for aspiring computer science Engineers	CSE	27/09/2018
AICTE Sponsored FDTP on Student Induction Programme (Level 0 1)	ENGLISH	14/06/2019
AICTE Sponsored FDTP on Student Induction Programme (Level 0)	ENGLISH	17/05/2019
Guest lecture on "Emerging tools for design modeling"	MECHANICAL	24/07/2018
Guest lecture on "Industrial automation Robotics"	MECHANICAL	21/08/2018
Guest lecture on "Aero Modeling/3D Modeling"	MECHANICAL	21/08/2018
Guest lecture on "Advanced engineering using CAD"	MECHANICAL	05/09/2018
Guest lecture on "Industrial expectations for Engineering graduates"	MECHANICAL	20/09/2018

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
Noise pollution analysis using QGIS	Mr.S.Vijay	RULA	12/11/2018	Research
Noise pollution analysis using QGIS	M.Sabarilakshmi	RULA	12/11/2018	Research
Noise pollution analysis using QGIS	M.Dhanalakshmi	RULA	12/11/2018	Research

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

Incubation Center	Name	Sponsered By	Name of the Start-up	Nature of Start-up	Date of Commencement
No Data Entered/Not Applicable !!!					
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3.3 – Research Publications and Awards

3.3.1 – Incentive to the teachers who receive recognition/awards

State	National	International
03	0	0

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

Name of the Department	Number of PhD's Awarded
Civil	1

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	Mathematics	1	5.64
International	ECE	3	2.0
International	CSE	6	1.64
International	Mechanical	7	1.42
International	Physics	1	2.12
International	Chemistry	1	0.56

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
CIVIL	10
ECE	4
CSE	20
MECH	7
PHYSICS	1
CHEMISTRY	1
EEE	11

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

Title of the Paper	Name of Author	Title of journal	Year of publication	Citation Index	Institutional affiliation as mentioned in the publication	Number of citations excluding self citation
Production Of Biogas using Water Hyacinth CoDigestion with Cow Dung	B.Anupriya	International Journal of Advanced Research in Basic Engineering Sciences and Technology.	2018	0	ARASU ENGINEERING COLLEGE	0
Strength Study of Stiffeners on Castellated Beam for Circular and Hexagonal	B.Anupriya	National Journal of Multidisciplinary Research and Development	2018	0	ARASU ENGINEERING COLLEGE	0

opening using ANSYS						
Study on Strength Characteristics of High Strength Concrete using Mineral Admixtures	B.Anupriya	International Journal of Advanced Research in Basic Engineering Sciences and Technology.	2018	0	ARASU ENGINEERING COLLEGE	0
Strengthening of RC Circular Column Wrapped with Carbon Fiber Reinforced Polymer (CFRP)	B.Anupriya	International Journal of Innovative Research in Science, Engineering and Technology	2018	0	ARASU ENGINEERING COLLEGE	0
Performance Study of Steel Concrete Composite Beam Involving Flexible Shear Connector	Dr.B.Raguvaran	International Journal of Structural Engineering	2018	1	ARASU ENGINEERING COLLEGE	1
Deep learner based earlier plant leaf disease prediction and classification using machine learning algorithms	Dr.EVRM.Kalaimani	International Journal of Applied Engineering and Research	2018	0	ARASU ENGINEERING COLLEGE	0
Deep learner based earlier plant leaf disease prediction and classification	M.Vengateswaran	International Journal of Applied Engineering and Research	2018	0	ARASU ENGINEERING COLLEGE	0

using machine learning algorithms						
Comparitive analysis of Big data, Machine learning, block chain technologies and their application	M.Vengateswaran	IOSR, Journal of Engineering	2018	0	ARASU ENGINEERING COLLEGE	0
A modern approach for smart health care monitoring system remotely using IOT and Raspberry pi	M.Vengateswaran	IOSR, Journal of Engineering	2018	0	ARASU ENGINEERING COLLEGE	0
A novel automatic Train Management System using IOT and Android	V.Kovendan	HBRP Publication	2018	0	ARASU ENGINEERING COLLEGE	0
Data centre workload management of scheduling resource processing	V.Kovendan	HBRP Publication	2018	0	ARASU ENGINEERING COLLEGE	0
Human Activity Patterns prediction system for Smart Healthcare Applications	Dr.EVRM.Kalaimani	International Journal of Scientific Research and Engineering Development	2019	0	ARASU ENGINEERING COLLEGE	0
Efficient File Download Time Reduction	R.Sudha	International Journal of Scientific Research	2019	0	ARASU ENGINEERING COLLEGE	0

System for MultiClient Fog/Cloud Environment		and Engineering Development				
Air Quality Monitoring using CNN Classification"	R.Kalaiselvi	International Research Journal of Engineering and Technology	2019	0	ARASU ENGINEERING COLLEGE	0
Sharing Session Key to protect data in cloud Storage	R.Kalaiselvi	International Research Journal of Engineering and Technology	2019	0	ARASU ENGINEERING COLLEGE	0
Eye Blinking Detection Based Emergency Alert and Automated Smart Environment for Patients with Severe Disorder	V.Kovendan	International Journal of Computer Sciences and Engineering	2019	0	ARASU ENGINEERING COLLEGE	0
SBFR: SHA Based Fingerprint Recognition for Secured Smart Ration Management System	V.Kovendan	International Journal of Research and Scientific Innovation	2019	0	ARASU ENGINEERING COLLEGE	0
Big Data Analytics: A comparison of Programming Languages	V.Kovendan	International Journal of Emerging Technologies and Innovative Research	2019	0	ARASU ENGINEERING COLLEGE	0
Novel Approach for Reliable C	V.Kovendan	International Journal of Advancemen	2019	0	ARASU ENGINEERING COLLEGE	0

ommunicati on in Wireless Sensor Networks DDRA		t of Computer Technology and its Ap plications				
A Innovative hot Topic Detection Schema with Synthesis of Image and Short Text Knowledge Retrieval From Twitter	M.Vengates waran	Internatio nal Journal of Advanced S cience And Engineerin g Research	2019	0	ARASU ENGI NEERING COLLEGE	0
Efficient Vehicle Smoke Tracking Down System using Raspberry PI in IOT Automation	M.Vengates waran	Internatio nal Research Journal of Automotive Technology	2019	0	ARASU ENGI NEERING COLLEGE	0
Voice Disorder R ecognition and analysis using Knowledge Engineerin g Techniques	M.Vengates waran	Internatio nal Reasearch Journal of Multidisci plinary Te chnovation	2019	0	ARASU ENGI NEERING COLLEGE	0
Hadoop Based Brain Tumor disorder prediction and catego rization using near Infrared Imaging Technology	M.Vengates waran	Internatio nal Journal of Future Trends In Engineerin g and Science	2019	0	ARASU ENGI NEERING COLLEGE	0
An Intelli gent Deep Learning Approach	M.Vengates waran	Journal of Applied Science and Comput	2019	0	ARASU ENGI NEERING COLLEGE	0

for Brain Pathology Detection Classification using Back Propagation Neural Network		ations				
Semantic Based Text Classification of emergent brain tumour disease reports using machine learning techniques	M.Vengates waran	International Journal of Scientific Engineering Research	2019	0	ARASU ENGINEERING COLLEGE	0
A Modern Approach for Smart Healthcare Monitoring System Remotely Using IoT and Raspberry Pi	M.Vengates waran	IOSR Journal of Engineering	2019	0	ARASU ENGINEERING COLLEGE	0
Deep Learner Based Earlier Plant Leaf Disease Prediction and Classification Using Machine Learning Algorithms	M.Vengates waran	International Journal Of Applied Engineering Research	2019	0	ARASU ENGINEERING COLLEGE	0
Comparative Analysis of Bigdata, Machine Learning, Block Chain: Technologies and their	M.Vengates waran	International Journal Of Applied Engineering Research	2019	0	ARASU ENGINEERING COLLEGE	0

Applications						
Secured Vehicle Control Systems using IOT	B.Dhivya	International Journal on Recent Researches in Science, Engineering Technology	2019	0	ARASU ENGINEERING COLLEGE	0
Key exchange technique in Cryptography using DiffieHellman Algorithm	C.Muthukumar	International Journal of Computer Sciences and Engineering	2019	0	ARASU ENGINEERING COLLEGE	0
Biodiesel derived from corn oil - A fuel substitute for diesel	Dr. T. Balamurugan	Renewable and Sustainable Energy Reviews	2019	6	ARASU ENGINEERING COLLEGE	6
Effect of Thermal Barrier Coating on Piston in Performance, Combustion and Emission characteristics of a Diesel Engine	Dr. T. Balamurugan	International Journal of Current Research and Development	2019	0	ARASU ENGINEERING COLLEGE	0
Dry Sliding Wear behaviour of surface modified AZ61 Magnesium alloy Reinforced with Nano Titanium Dioxide	S. Sundaraselvan	Journal of the Balkan Tribological Association	2019	0	ARASU ENGINEERING COLLEGE	0
Surface Modification AZ61 Magnesium	S. Sundaraselvan	International Journal of Rapid Manu	2019	0	ARASU ENGINEERING COLLEGE	0

alloy with NanoAl2O3 using laser cladding technique: Optimisation of waer properties through hybrid GRAPCA		facturing				
Biodiesel derived from corn oil - A fuel substitute for diesel	A. Arun	Renewable and Sustainable Energy Reviews	2019	6	ARASU ENGI NEERING COLLEGE	6
Effect of Thermal Barrier Coating on Piston in Performance, Combustion and Emission characteristics of a Diesel Engine	A. Arun	International Journal of Current Research and Development	2019	0	ARASU ENGI NEERING COLLEGE	0
Biodiesel derived from corn oil - A fuel substitute for diesel	G. B. Sathish Kumar	Renewable and Sustainable Energy Reviews	2019	6	ARASU ENGI NEERING COLLEGE	6
Effect of Thermal Barrier Coating on Piston in Performance, Combustion and Emission characteristics of a Diesel Engine	G. B. Sathish Kumar	International Journal of Current Research and Development	2019	0	ARASU ENGI NEERING COLLEGE	0
Design and Performance Analysis of Solar	G. B. Sathish Kumar	International Journal for	2019	0	ARASU ENGI NEERING COLLEGE	0

Hybrid Power Generator		Research in Applied Science Engineering Technology (IJRASET)				
Reinforcement of AISI 304 Stainless Steel Wire Mesh in A NFHC With Unsaturated Polyester Resin For Mechanical Behaviour	G. B. Sathish Kumar	International Journal on Recent Researches in Science, Engineering Technology (IJRRSET)	2019	0	ARASU ENGINEERING COLLEGE	0
Design and Remodeling 60cc to 80cc Mini Race bike with light weight and low cost fibre composites	G. B. Sathish Kumar	Omega Global Journal of Engineering and Technology	2019	0	ARASU ENGINEERING COLLEGE	0
Design and Performance Analysis of Solar Hybrid Power Generator	R. Vijay	International Journal for Research in Applied Science Engineering Technology (IJRASET)	2019	0	ARASU ENGINEERING COLLEGE	0
Crystal growth, Hirshfeld surface analysis, DFT study and third order NLO studies of Thiourea 4 dimethyl aminobenzaldehyde	S. Sathiya	Journal of Molecular Structure	2019	0	ARASU ENGINEERING COLLEGE	0
Design and Performance Analysis of Inexact	A.Sriram	International Journal of Trendy	2019	0	ARASU ENGINEERING COLLEGE	0

Speculative Han Carlson Adder		Research in Engineering and Technology				
Automatic Health Management System in Urbanized Hospitals	A.Sriram	Research and Applications: Embedded System	2019	0	ARASU ENGINEERING COLLEGE	0
Abnormality Detection using Thermal Image	A.Sriram	International Journal of Industrial Engineering	2019	0	ARASU ENGINEERING COLLEGE	0
Defensible Electronic Voting Machine using Face Recognition	A.Sriram	International Journal of Modern Computation, Information and Communication Technology	2019	0	ARASU ENGINEERING COLLEGE	0
High voltage Transmission Lines Using Hot Spot Identification using thermal imaging	A.Sriram	IEEE Digital Library	2019	0	ARASU ENGINEERING COLLEGE	0
Physicomechanical investigations on mineralogical clay based ceramic bodies with rock residue	Dr. R. Vijayaragavan	Journal of King Saud University Engineering Sciences	2018	1	ARASU ENGINEERING COLLEGE	1

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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
Biodiesel derived from corn	Dr. T. Balamurugan	Renewable and Sustainable	2018	5	6	Arasu Engineering College

oil - A fuel substitute for diesel		Energy Reviews				
Biodiesel derived from corn oil - A fuel substitute for diesel	A. Arun	Renewable and Sustainable Energy Reviews	2018	1	6	Arasu Engineering College
Biodiesel derived from corn oil - A fuel substitute for diesel	G. B. Sathish Kumar	Renewable and Sustainable Energy Reviews	2018	1	6	Arasu Engineering College
Physicomechanical investigations on mineralogical clay based ceramic bodies with rock residue	Dr. R. Vijayaragavan	Journal of King Saud University Engineering Sciences	2018	2	1	Arasu Engineering College
Performance Study of Steel Concrete Composite Beam Involving Flexible Shear Connector	Dr. B. Raguvaran	International Journal of Structural Engineering	2018	1	1	Annamalai University

[View File](#)

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

Number of Faculty	International	National	State	Local
Attended/Seminars/Workshops	11	19	1	11
Presented papers	30	9	0	0
Resource persons	1	1	1	3

[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
AIDS Awareness Programme	National Service Scheme	2	200
Swachhata Packwada	National Service Scheme	2	200
Blood Donate Camp	National Service Scheme	4	450
Cardiology Camp	National Service Scheme	10	450
Cauvery Field Work	National Service Scheme	25	100
Fire Safety	National Service Scheme	10	200
Green Campus Awareness	National Service Scheme	20	450
Health Camp	National Service Scheme	10	100
Independence Day	National Service Scheme	100	100
Abdul Kalam Remembrance	National Service Scheme	30	100
Karate Grading	National Service Scheme	10	400
Kargil War Victory Rally	National Service Scheme	50	100
Kerala Flood Relief	National Service Scheme	2	1000
Martial Arts	National Service Scheme	3	750
Mini Marathon	National Service Scheme	12	200
NYSPO2K18	National Service Scheme	4	200
Plastic Free India	National Service Scheme	12	200
Swachhata Pakhwada Field Work	National Service Scheme	32	100
Swachhata Pakhwada Rally	National Service Scheme	8	400
Teachers Day	National Service Scheme	100	2
Womens Day	National Service Scheme	14	100
Yoga Juri Training	National Service Scheme	2	100

International Yoga Day Celebration	National Service Scheme	10	100
NSS Special Camp Inaugural function	National Service Scheme	15	100
Compulsory Education Awareness Drama	National Service Scheme	15	200
Digital Literacy to school kids	National Service Scheme	15	250
Digital Literacy to rural students	National Service Scheme	15	250
Garden creation in Govt Schools	National Service Scheme	15	500
Computer Hardware Workshop	National Service Scheme	15	50
water resource management	National Service Scheme	15	250
Renewable Energy Sources	National Service Scheme	15	250
Helmet Awareness Human chain	National Service Scheme	15	200
RTI Awareness Programme	National Service Scheme	15	300
Environmental Safety Awareness	National Service Scheme	15	150
Govt. School Painting	National Service Scheme	15	250
Tobacco free India rally	National Service Scheme	15	100
Importance of traditional Medicine	National Service Scheme	15	200
Voters Awareness Rally	National Service Scheme	15	200
Water resource management awareness	National Service Scheme	15	250
Women's Day Awareness rally	National Service Scheme	15	225
Yoga training	National Service Scheme	15	250
Health awareness programme	Youth Red Cross/AEC, Government Hospital / Kumbakonam	4	120
Kaja cyclone relief work	Youth Red Cross NSS/AEC	6	20
Awareness Programme	Youth Red	4	400

on Indian medicine	Cross/AEC, Government Hospital / Kumbakonam		
Awareness on cancer and platelets	NSS Youth Red Cross/AEC, Platelets Club/Chennai	5	300
Oldage home visit	GEO Club Youth Red Cross / AEC	4	55
Blood Donation Camp	NSS Youth Red Cross/AEC	5	200
Kerala Flood Relief work	Youth Red Cross NSS/AEC, Rotary Kings Kmu	6	20
Fire and Safety Programme	NSS Youth Red Cross/ AEC	4	50
Cauvery River Cleaning	YRC, NSS, GEO /AEC, Rotary Kings Kmu	20	500
Kargil War Day Rally	YRC, NSS /AEC, TN 8th Battalion	4	100
Cardiology Camp	NSS, YRC/ AEC, Mahathma Ganthi Medical College	10	200
Eye Camp	NSS, YRC/ AEC, Agarwals Eye Hospital	10	100
Cleaning awareness programme	NSS, YRC/AEC	20	200
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
Analysis on Noise pollution Project Work	Young Researcher	RULA	2
NSS Regular Activities 201819	Best NSS Unit Award 2018	Anna University	100
NSS Regular and special camp activities	Best NSS Programme Officer Award 2018	Anna University	100
NSS Regular activity Cauvery River cleaning and awareness creation	Best Social Worker Award	Rotary Kings Kumbakonam	100
Research Work	Eminent PhD Scholar Award	Pama Subramanian Educational Trust	180
NSS Activities	Best NSS Volunteer 20182019	Anna University	2

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
NSS Regular Activity	Rotary kings Kumbakonam	AIDS Awareness Programme	2	100
NSS Regular Activity	Government of India	Swachhata Pakwada	2	100
NSS Regular Activity	General Hospital, Kumbakonam	Blood Donate Camp	4	200
NSS Regular Activity	Mahathma Ganthi Medical College, Pondicherry	Cardiology Camp	10	200
NSS Regular Activity	Rotary kings Kumbakonam	Cauvery Clean	25	200
NSS Regular Activity	Rotary kings Kumbakonam	Cauvery Field Work	25	450
NSS Regular Activity	General Hospital, Kumbakonam	Health Camp	10	100
NSS Regular Activity	NJM Martial Arts , Kumbakonam	Martial Arts	3	400
NSS Regular Activity	Rotary kings Kumbakonam	Plastic Free India	12	750
NSS Regular Activity	Government of India	Swachhata Pakhwada Field Work	32	200
NSS Regular Activity	Government of India	Swachhata Pakhwada Rally	8	200
NSS Regular Activity	Rotary Club of Temple City, Kumbakonam	Womens Day	14	100
NSS Regular Activity	Anna University	International Yoga Day Celebration	10	200
NSS Special Camp	Anna University	Garden creation in Govt Schools	15	100
NSS Special Camp	Anna University	Water resource management	15	100
NSS Special Camp	Anna University	Renewable Energy Sources	15	100
NSS Special Camp	Anna University	Helmet Awareness Human chain	15	100

NSS Special Camp	Anna University	Environmental Safety Awareness	15	100
NSS Special Camp	Anna University	Tobacco free India rally	15	100
NSS Special Camp	Anna University	Importance of traditional Medicine	15	100
NSS Special Camp	Anna University	Water resource management awareness	15	100
NSS Special Camp	Anna University	Women's Day Awareness rally	15	100
NSS Special Camp	Anna University	Yoga training	15	100
YRC Regular Activity	Youth Red Cross/AEC, Government Hospital / Kumbakonam	Awareness Programme on Indian medicine	4	400
YRC Regular Activity	NSS Youth Red Cross/AEC, Platelets Club/Chennai	Awareness on cancer and platelets	5	300
YRC Regular Activity	YRC, NSS, GEO /AEC	Cauvery River Cleaning	20	500
YRC Regular Activity	NSS, YRC/ AEC, Mahathma Ganthi Medical College	Cardiology Camp	10	200
YRC Regular Activity	NSS, YRC/ AEC, Agarwals Eye Hospital	Eye Camp	10	100
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3.5 – Collaborations

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

Nature of activity	Participant	Source of financial support	Duration
Apprenticeship Training	2	NLC India Limited, Neyveli	150
Android Game Development	4	Edsix Brain (P) Ltd., Chennai	90
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3.5.2 – Linkages with institutions/industries for internship, on-the- job training, project work, sharing of research facilities etc. during the year

Nature of linkage	Title of the linkage	Name of the partnering institution/ industry /research lab with contact	Duration From	Duration To	Participant

		details			
Internship	Construction Detailing	Building Technocrats Association	05/12/2018	15/12/2018	13
On job training	Construction Division	NLC India Limited	09/01/2019	14/07/2019	2
Internship	Android game development	Edsix Brain (P) Ltd.	25/02/2019	25/05/2019	4
Internship	Android game development	Infogrow Technologies	21/06/2019	23/06/2019	7
Internship	Android programming	Pantech Pro Ed	20/06/2019	29/06/2019	3
Project	Design and Automation of Fuel Management system for shop floor	TAFE DBR	21/01/2019	20/02/2019	3
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3.5.3 – MoUs signed with institutions of national, international importance, other universities, industries, corporate houses etc. during the year

Organisation	Date of MoU signed	Purpose/Activities	Number of students/teachers participated under MoUs
Federation of all Civil Engineering Association of Tamilnadu Puducherry	15/09/2018	Placement, Inplant Training, Seminars	164
Pantech Solutions, Trichy	08/10/2018	Inplant training, workshops	3
MAS Solar systems Private Limited	12/11/2018	Industrial Training	10
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CRITERION IV – INFRASTRUCTURE AND LEARNING RESOURCES

4.1 – Physical Facilities

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

Budget allocated for infrastructure augmentation	Budget utilized for infrastructure development
37	33.5

4.1.2 – Details of augmentation in infrastructure facilities during the year

Facilities	Existing or Newly Added
Campus Area	Existing
Class rooms	Newly Added
Laboratories	Newly Added
Seminar Halls	Existing
Classrooms with LCD facilities	Newly Added

Seminar halls with ICT facilities	Existing
Video Centre	Existing
Value of the equipment purchased during the year (rs. in lakhs)	Newly Added
Number of important equipments purchased (Greater than 1-0 lakh) during the current year	Newly Added
Others	Newly Added

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
NIRMALS	Fully	1.0	2002

4.2.2 – Library Services

Library Service Type	Existing		Newly Added		Total	
Text Books	21564	5370922	4125	1207891	25689	6578813
Reference Books	6595	1978500	538	161400	7133	2139900
e-Books	56	29184	0	0	56	29184
Journals	108	300000	20	60000	128	360000
e-Journals	40000	72216	0	0	40000	72216
Digital Database	0	0	5	0	5	0
CD & Video	1400	280000	200	40000	1600	320000
Library Automation	1	500000	0	0	1	500000

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

Name of the Teacher	Name of the Module	Platform on which module is developed	Date of launching e-content
R.G .PADMANABHAN	NEW GENERATION HYBRID VEHICLE	Institutional LMS	07/09/2018
JAYAKUMAR. M	RAILWAY AIRPORT AND HORBOUR	Institutional LMS	30/08/2018
RAGUVARAN. B	DESIGN OF STEEL STRUCTURE	Institutional LMS	05/09/2018
KOVENDAN. V	MOBILE COMPUTING	Institutional LMS	02/08/2018
KALPANA. K	BASIC ELECTRICAL, ELECTRONICS AND INSTRUMENTATION ENGINEERING	Institutional LMS	13/08/2018
SRIRAM. A	DIGITAL	Institutional LMS	18/09/2018

	COMMUNICATION		
SATHISH KUMAR.G.B	METROLOGY AND MEASUREMENTS	Institutional LMS	26/09/2018
SATHISH KUMAR.G.B	FINITE ELEMENT ANALYSIS	Institutional LMS	25/09/2018
SATHISH KUMAR.G.B	PROFESSIONAL ETHICS IN ENGINEERING	Institutional LMS	25/09/2018
SUNDARASELVAN. S	MAINTENANCE ENGINEERING	Institutional LMS	11/09/2018
CHARLES.S	MECHATRONICS	Institutional LMS	27/09/2018

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	500	6	280	1	6	7	15	26	26
Added	0	0	20	0	0	2	5	19	10
Total	500	6	300	1	6	9	20	45	36

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

45 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
Smart class	https://www.youtube.com/channel/UC1GN7eSL_KoGJRc7YyOXZZA

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
30	24.38	125	123.3

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)

A separate maintenance department is functioning in the college with an Engineer as the head. A maintenance supervisor and maintenance assistants are available to look after. Civil works like maintenance of building floors, walls and other furniture work are carried out time to time and log book register is maintained. Electrical maintenance work in all the departments as and when required. Calibration of instruments and equipments are carried out for a period of once in six months depending on the requirement by Electrical department, Mechanical department, Electronics and Communication department, Civil and Physics department. They seek the assistance of external agencies in this respect, in addition to involving the lab assistants for this work Our

campus is fully furnished and equipped with WiFi. Smart Class rooms are available for all the departments equipped with WiFi projectors and screen. Our library has more than 20,000 books, updated with a digital storage server and Elearning materials. We have centralized Air conditioned Seminar hall. We provide flexible cost effective network of transport. Presently the college busses are operated in different routes. Separate Hostels for Boys and Girls in the campus with all facilities. We providing free 24 hour internet facility in hostel. Books required as per AICTE norms is sought from the departments every year and purchased as per the norms of the Institute. Journals requirements suggested by the Heads of Departments are also discussed in the meeting and recommended accordingly. The updated version of ejournals is printed according to HoD's recommendations. A spacious playground is available in our campus in which daily practice is given for the outdoor games such as Ball Badminton, Tennis, Throw Ball, Cricket, Kabaddi, Hockey, Hand Ball, Foot ball, Volley Ball, Athletic events etc. We train the students in indoor games such as Table Tennis, Badminton, Chess, Carom, Weight lifting, Power lifting etc. Our college has separate modern Multi Gyms for boys and girls students and staff usage. Students have participated in Zonal level Athletics events.

<http://aec.org.in/>

CRITERION V – STUDENT SUPPORT AND PROGRESSION

5.1 – Student Support

5.1.1 – Scholarships and Financial Support

	Name/Title of the scheme	Number of students	Amount in Rupees
Financial Support from institution	Dhanalakshmi Thirunavukarasu Educational Trust Merit student Scholarship	7	190000
Financial Support from Other Sources			
a) National	Government Scholarships	831	16439375
b) International	Nil	0	0
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5.1.2 – Number of capability enhancement and development schemes such as Soft skill development, Remedial coaching, Language lab, Bridge courses, Yoga, Meditation, Personal Counselling and Mentoring etc.,

Name of the capability enhancement scheme	Date of implemetation	Number of students enrolled	Agencies involved
Science and Technology capacity building for industrial needs	30/01/2019	21	Tamil Nadu State Council for Science and Technology
Science and Technology capacity building for industrial needs	06/02/2019	21	Tamil Nadu State Council for Science and Technology
Bridge course (Engineering Mathematics)	16/07/2018	145	AEC
International Yoga	21/06/2019	100	NSS Unit

day celebration			
National Level Yoga Sports Championship	07/01/2019	500	NSS Unit
Free Grooming Training program	08/01/2019	340	The Hindu and Gillette
Personal counselling and Mentoring	02/07/2018	1072	AEC
Remedial Coaching Class	17/10/2018	623	AEC
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5.1.3 – Students benefited by guidance for competitive examinations and career counselling offered by the institution during the year

Year	Name of the scheme	Number of benefited 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
2019	THE HINDU and GILLETTE	0	674	0	94
2018	Aptitude Training	183	206	0	65
2018	Tamil Nadu State Council for Science and Technology	0	42	0	42
2018	Free Grooming Training Programme	0	340	0	27
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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
0	0	0

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
TSMTC, WIND CARE, SURABI Elec. Sys., Sri Lakshmi Asso., RPP	814	229	IDBI, AXIS GLOBAL, Cast Well	42	21

Infra., Yes Bee Construc tion, Urban Tree Infra, JK FENNER , Unitech Plasto, Power Tech, Infant Engg. Pvt. Ltd., CTS vertex solutions, Soft Crylic Tech., Team Ware, Edsix Brain (P) Ltd.				
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5.2.2 – Student progression to higher education in percentage during the year

Year	Number of students enrolling into higher education	Programme graduated from	Depratment graduated from	Name of institution joined	Name of programme admitted to
2019	1	BE	ECE	Arasu Engineering College	ME VLSI
2019	1	BE	EEE	Arasu Engineering College	ME PED
2019	2	BE	CSE	Arasu Engineering College	ME CSE
2019	2	BE	CSE	AVC College of Engineering	ME CSE
2019	1	BE	CIVIL	SRM University	MBA
2019	1	BE	CIVIL	Anna University	MBA
2019	2	BE	CIVIL	EGS Pillay Engineering College	ME Structural Engineering

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

Items	Number of students selected/ qualifying
Any Other	2

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

Activity	Level	Number of Participants
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Tamil Kalai Ilakiya Thiruvizha	State	300
Annual Day Cultural Programme	Institution	125
Annual Sports Meet	Institution	220
Ball Badminton	Zonal	70
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/ International	Number of awards for Sports	Number of awards for Cultural	Student ID number	Name of the student
2018	Second Place in Anna University Sports Meet (Long Jump)	National	1	0	B15EE027	M.SARAVANA N
2018	First Place in Anna University Sports Meet (10000 Meters)	National	1	0	B15EE038	R.VIJAYAKUMAR
2018	Third Place in Anna University Sports Meet (Long Jump)	National	1	0	B15EC038	MUTHUKARUPAIYA
2018	First Place in Anna University Sports Meet (HAMMER THROW)	National	1	0	B15CE037	S.SHANMUGAMANI
2018	Second Place in Anna University Sports Meet (100 Meters Hurdles)	National	1	0	B16EC038	A.SUSHWA
2018	Third	National	1	0	B17EC033	S.PUVAZAKI

	Place in Anna University Sports Meet (Long Jump)					
2018	Second Place in Anna University Sports Meet (Triple Jump)	National	1	0	B17EC033	S.PUVAZAKI
2018	First Place in Anna University Sports Meet (High Jump)	National	1	0	B17EC006	A.ANUSUYA
2018	Second Place in Anna University Sports Meet (Hammer Throw)	National	1	0	B15CS027	S.INDHUMATHI
2018	Third Place in Anna University Sports Meet (Hammer Throw)	National	1	0	B15CS061	J.UMA MAHESHWARI
2018	Second Place in Anna University Sports Meet (Hand ball)	National	1	0	B15CE037	SHANMUGAMANI. S
2018	Second Place in Anna University Sports Meet (Hand ball)	National	1	0	B15AU017	VIGNESH.A
2018	Second Place in Anna University	National	1	0	B16EE021	PRAVEEN KUMAR .B

	Sports Meet (Hand ball)					
2018	Best NSS Volunteer	National	0	1	B15EC021	G.G.Harini
2018	Best NSS Volunteer	National	0	1	B16ME062	K.Santhosh
2018	Second Place in Anna University Sports Meet (Hand ball)	National	1	0	B15EC027	KALAIYARASAN .V
2018	Second Place in Anna University Sports Meet (Hand ball)	National	1	0	B17EC026	MOHAMED ALI JINNA .A
2018	Second Place in Anna University Sports Meet (Hand ball)	National	1	0	B15ME036	LAKSHMAN KUMAR .M
2018	Second Place in Anna University Sports Meet (Hand ball)	National	1	0	B15ME027	HILSON.S
2018	Second Place in Anna University Sports Meet (Hand ball)	National	1	0	B15ME057	RAGHUL . M
2018	Second Place in Anna University Sports Meet (Hand ball)	National	1	0	B15ME008	ARULMOZHI .B
2018	Second Place in Anna University Sports	National	1	0	B15ME047	MOHAMED YASHAR .J

	Meet (Hand ball)					
2018	Second Place in Anna University Sports Meet (Hand ball)	National	1	0	B15ME017	DEEPANRAJ. K
2018	Second Place in Anna University Sports Meet (Hand ball)	National	1	0	B15ME026	HARISH NAN DHAKUMAR .G
2018	Second Place in Anna University Sports Meet (Hand ball)	National	1	0	B16ME308	PURUSHOTHA MAN.K
2018	Second Place in Anna University Sports Meet (Hand ball)	National	1	0	B16ME047	NANDHAKUMA R. T
2018	Second Place in Anna University Sports Meet (Hand ball)	National	1	0	B16ME009	ARUNACHALA RASU
2018	Second Place in Anna University Sports Meet (Hand ball)	National	1	0	B16ME048	NAVEEN.N
2018	Second Place in Anna University Sports Meet (Hand ball)	National	1	0	B17ME003	AJAY. A.G
2018	Third Place in Anna University	National	1	0	B15ME003	AHILAN ALI. A

	Sports Meet (Volley ball)					
2018	Third Place in Anna University Sports Meet (Volley ball)	National	1	0	B15ME006	AMIRTHAGANESH .B.S
2018	Third Place in Anna University Sports Meet (Volley ball)	National	1	0	B16ME073	VENKATESH .N .M
2018	Third Place in Anna University Sports Meet (Volley ball)	National	1	0	B16ME055	PRITHIVRAJ AN. S
2018	Third Place in Anna University Sports Meet (Volley ball)	National	1	0	B15AU014	SIVAKUMAR. U
2018	Third Place in Anna University Sports Meet (Volley ball)	National	1	0	B15CE019	KARTHICK .G
2018	Third Place in Anna University Sports Meet (Volley ball)	National	1	0	B16CE308	MOHAMED SUROOR.H
2018	Third Place in Anna	National	1	0	B16CS018	HARIKUMAR. P

	University Sports Meet (Volley ball)					
2018	Third Place in Anna University Sports Meet (Volley ball)	National	1	0	B16CS042	PARTHIPAN. B
2018	Third Place in Anna University Sports Meet (Volley ball)	National	1	0	B16CS028	KARTHIKEYA N.S
2018	Third Place in Anna University Sports Meet (Volley ball)	National	1	0	B15EE304	MOTHILAL SURYA .C
2018	Third Place in Anna University Sports Meet (Volley ball)	National	1	0	B18ME034	PARTHIBAN. B
2018	Third Place in Anna University Sports Meet (Ball badminton)	National	1	0	B15EC067	SWATHI.R
2018	Third Place in Anna University Sports Meet (Ball badminton)	National	1	0	B15EC036	MAHALAKSHM I.R
2018	Third Place in Anna University	National	1	0	B15EC015	DHIVYA.R

	Sports Meet (Ball badminton)					
2018	Third Place in Anna University Sports Meet (Ball badminton)	National	1	0	B16EC015	DHATCHAYIN I.B
2018	Third Place in Anna University Sports Meet (Ball badminton)	National	1	0	B16EC038	SUSHWA.A
2018	Third Place in Anna University Sports Meet (Ball badminton)	National	1	0	B17EC033	PUVAZAKI.S
2018	Third Place in Anna University Sports Meet (Ball badminton)	National	1	0	B17EC001	AARTHI.A
2018	Third Place in Anna University Sports Meet (Ball badminton)	National	1	0	B15CS027	INDUMATHI.S
2018	Third Place in Anna University Sports Meet (Ball badminton)	National	1	0	B15CS035	KRITHIKA.S
2018	Third Place in Anna University Sports Meet (Ball badminton)	National	1	0	B16CE312	SOWMIYA.V
2018	Second Place in Anna	National	1	0	B16EC038	SUSHWA .A

	University Sports Meet (Badminton)					
2018	Second Place in Anna University Sports Meet (Badminton)	National	1	0	B16CE013	JEEVITHALA KSHMI
2018	Second Place in Anna University Sports Meet (Badminton)	National	1	0	B15CS027	INDHUMATHI .S
2018	Third Place in Anna University Sports Meet (Basketball)	National	1	0	B15CS027	S.INDUMATHI
2018	Third Place in Anna University Sports Meet (Basketball)	National	1	0	B15CS061	J.UMAMAHESHWARI
2018	Third Place in Anna University Sports Meet (Basketball)	National	1	0	B15CS033	M.KATHYA
2018	Third Place in Anna University Sports Meet (Basketball)	National	1	0	B17CS038	L.SHEELA
2018	Third Place in Anna University Sports Meet (Basketball)	National	1	0	B17CS003	S.ARCHANA
2018	Third Place in	National	1	0	B17EC033	S.PUVAZAKI

	Anna University Sports Meet (Basketball)					
2018	Third Place in Anna University Sports Meet (Basketball)	National	1	0	B17EC006	A.ANUSUYA
2018	Third Place in Anna University Sports Meet (Basketball)	National	1	0	B17EC016	A.GAYATHRI
2018	Third Place in Anna University Sports Meet (Basketball)	National	1	0	B15EC015	R.DIVYA
2018	Third Place in Anna University Sports Meet (Basketball)	National	1	0	B16EC038	A.SUSHVA
2018	Second Place in Anna University Sports Meet (Ball Badminton)	National	1	0	B15CE037	BHAVANAI SAGAR . L
2018	Second Place in Anna University Sports Meet (Ball Badminton)	National	1	0	B15ME301	ANBARASAN. D
2018	Second Place in Anna University Sports Meet (Ball Badminton)	National	1	0	B15ME309	PRAKASH .A

2018	Second Place in Anna University Sports Meet (Ball Badminton)	National	1	0	B15ME312	SATHIYANAR AYANAN.S
2018	Second Place in Anna University Sports Meet (Ball Badminton)	National	1	0	B17ME002	ABINASH.M
2018	Second Place in Anna University Sports Meet (Ball Badminton)	National	1	0	B17ME011	BHUVANESHW ARAN.T
2018	Second Place in Anna University Sports Meet (Ball Badminton)	National	1	0	B15EE031	SURENDER.R
2018	Second Place in Anna University Sports Meet (Ball Badminton)	National	1	0	B15EE010	JENITHKUMA R .J
2018	Second Place in Anna University Sports Meet (Ball Badminton)	National	1	0	B16ME065	SHYAMSUNDA R. R(D)
2018	First Place in Anna University Sports Meet (100 Meters)	National	1	0	B15EE027	M.SARAVANA N

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

Various committees are formed for the effective functioning of the academic activities. All the departments have a department student society, Student chapters of various professional associations and various social clubs. The

Head of the Department, staff and students of the respective departments in consultation with the Principal choose the office bearers. The College has various academic and administrative bodies that have student representatives. This representation helps them in their overall development. These bodies create more avenues for students to develop technical skill, updating knowledge, personality development and service to society through the following Societies/Associations. There are staff advisers to guide students in the smooth and efficient conduct of these activities. The various committees where the students are members such as Class Committee, Department Associations, Cultural Committee, Symposium/Conference Committee, Students (chapter/forum) Associations such as IEEE, ISTE, CSI, IE, SAI etc, Grievance Cell, Antiragging Committee, Sports Committee, NSS, YRC, RRC, Women Empowerment Cell and Literary club.

5.4 – Alumni Engagement

5.4.1 – Whether the institution has registered Alumni Association?

Yes

Year of Establishment 2008 Registration Number 49/2008 Date of Registration 31.10.2008 Name of the President Dr. B. Gopi Name of the Vice President Dr. T. Balamurugan Name of the Secretary Mr. S. Venkateswaran Name of the Treasurer Mr. R. Malarvannan Date of the Last Meeting 23.09.2018

5.4.2 – No. of enrolled Alumni:

393

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

39300

5.4.4 – Meetings/activities organized by Alumni Association :

1. Guest lecture on trends and technologies in Big data was delivered by our alumni Mr. N. Anandhakrishnan, Sastra University on 13.09.2018. 2. Alumni Meet regarding placement opportunities, suggestions for improvement and development activities of the college was conducted on 23.09.2018 3. Guest lecture on career advice for aspiring computer science engineers was delivered by our alumni Ms. R. Vallimeenal, Civica UK Limited., Bristol on 28.09.2018. 4. Seminar on Scope for Python Programming by our alumni Mr. S. Venkateswaran, AEC.

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)

The College promotes a culture of participative management. The college has practice of listening to voices from the students and faculty members through proper channel. There will be class committee meeting for all classes headed by the class committee chair person who convenes the meeting as scheduled. It is the platform for the students to notify their needs in academic and non academic parts. Minutes of class committee meeting will be sent to the Head of the Institution. Department meeting will be conducted by the HODs in order to address the grievances and in turn will be passed to the top management.

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

Yes

6.2 – Strategy Development and Deployment

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

Strategy Type	Details
<p>Library, ICT and Physical Infrastructure / Instrumentation</p>	<p>College library is equipped with OPAC (Online Public Access Catalog) software. The library has online e journals subscription for both staff and the students. Electronic Resource Management package for e journals is available. Library automation is done by EASY LIB software. The library has 30 dedicated systems for digital library and the access is made easy for the students. Printers are available for public usage. A digital library is available with Internet band width/speed of 20Mbps. We have Institutional Repository through NPTEL. Content Management system for elearning is available. Participation in Resource sharing networks/consortia is done by DELNET.</p>
<p>Curriculum Development</p>	<p>Our college is affiliated to Anna University, Chennai. Being an affiliated institution, we follow the curricula which are designed by Anna University. The program educational objectives, Program specific objectives and program outcomes are derived from the requirements of the Washington Accord for the Engineering and Technology worldwide. We follow Choice Based Credit System (CBCS) and there is vertical and horizontal mobility in the selection of electives based on the students choice. The curriculum incorporates Lifelong learning skills as one of the graduate attributes by offering many courses with credits such as Engineering Ethics and Human Values.</p>
<p>Teaching and Learning</p>	<p>The modern teaching aids like OHP, LCD projectors, Internet enabled computer systems are usually employed. NPTEL lectures and ejournals provide effective learning experience. Our Institute also provides facilities such as Language laboratory, AVLC24 x 7 learning, Digital class rooms with WiFi facilities. IIT Bombay Initiatives such as Virtual Class Rooms, Virtual Labs, Spoken tutorial, Aview, FOSSEE (free and open source for education), OSCAR, 3D Animation. Elearning is encouraged among the students by using various web based learning resources.</p>
<p>Examination and Evaluation</p>	<p>The internal assessment tests are conducted by the centralized</p>

examination cell which ensures transparency. Three internal assessment tests are conducted during the semester to evaluate the performance of the students. Internal evaluation is made by the concerned subject teacher. The internal marks are uploaded in the Anna university website periodically within the time frame. The students can check their marks awarded for them from the university website also. The Institution adheres to the norms of the affiliating university in awarding the internal assessment marks. The end semester examination is conducted as per the norms of the University.

Research and Development

The Institute focus deeply towards research and allied activities through equipped research center/Lab, high speed internet arrangements of different technical seminars, workshops and training sessions to enhance the knowledge of the students regarding various recent technologies and emerging fields of research, financial support, sabbatical leave provided by the institute for research and collaborative research work.

Human Resource Management

College has established well defined administrative section and academic sections to look after the employees and students respectively. The college maintains HR policy manual which gives complete details about the faculty appointments, qualification and service requirements. College has set up a grievance redressal committee which helps to address the complaints raised by the employees. The college has staff welfare committees, women harassment committee and committee to take care of weaker section of the society. The internal complaints committee takes care of all students of the college solving their day to day difficulties. College has appointed a medical officer to provide medical attention to faculty and students whenever required. All faculty and students are insured under group insurance policies.

Industry Interaction / Collaboration

College has established industry interaction cells which help in promoting activity, training, projects and collaborative research culture between industries and institution. Leading industries established their products for demonstration purpose in

	<p>our college campus. Students are encouraged to undergo industrial training in various industries located in and around Tamil Nadu. Industries are willingly participating in collaborative research programs under industry sponsored and also sharing their equipments and other resources with the faculty and students of the college. The faculty members are regularly taking orientation classes for industry people on latest technologies.</p>
Admission of Students	<p>For all UG programmes, the college admits students partially through Anna University Counseling under government quota and also admits students through management quota. For all PG programmes, admission takes place based on the criteria of entrance examination such as TANCET and admission through management quota.</p>

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

E-governance area	Details
Planning and Development	<p>Insproplus software is used for management information system which includes modules that helps in planning academic activities such as timetable, lesson plan, attendance and feed back by students. This MIS helps in distributing students in batches through academic manager and faculty subject allocation.</p>
Administration	<p>Insproplus software is used for administration which helps in keeps records of all students, staffs and other employees.</p>
Finance and Accounts	<p>Tally software is used for maintaining finance and accounts. Functions of the finance and accounts are precisely defined and are strictly followed with proper accounting practices making record of each financial transaction using e governance mechanisms.</p>
Student Admission and Support	<p>Insproplus software is used for student admission and support. The complete database of the admitted students are maintained by this software and the category wise reports can be generated periodically. It also maintains the record of students attendance and other personal details.</p>
Examination	<p>Insproplus software is used to automate the examination process related to</p>

internal examinations. It includes the entry of assessment marks and consolidated arrival of internal marks. Periodically students progress report can be generated through the software. EFFRD USER software is used to automate the university examination process. It includes the preparation of hall plan, duty allocation, students attendance statement and other accounts pertaining to examinations.

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
2019	Mr.C.Muthukumar an	Key Exchange Technique in Cryptography Using DiffieHellman Algorithm"	NA	250
2019	Mrs.B.Dhivya	Smart Vehicle Security and Control system using IOT	NA	250
2018	Mr.C.Muthukumar an	Java Fundamentals and Programming	NA	2000
2018	Mr.C.Muthukumar an	Pattern Recognition and Computational Intelligence	NA	1000
2018	Mr.S. DilipKumar	Pattern Recognition and Computational Intelligence	NA	1000
2018	Dr.Kalaimani Shanmugham	Human Activity Patterns Prediction system for Smart Healthcare Applications	NA	500
2019	Dr.Kalaimani Shanmugham	Semantic Based Sentiment Classification of Product Reviews using Deep Learning	NA	400
2019	Dr.Kalaimani	Blockchaining	NA	350

	Shanmugham	based Creditcard Fraud Detection using Deep Learning		
2019	Ms.K.Suganthi	Intelligent System for Understanding and Monitoring of Health diseases on Social Media	NA	400
2019	Mr.S.Venkateswa ran	Security based on finger vein detection using Biometrics Authentication system	NA	350
2019	Mr.S.Venkateswa ran	Retinal based disease prediction using Image Segmentation and Classification Techniques	NA	350
2019	Mrs.B.Dhivya	RFID - Mobile Indoor Assistive Navigation and Localization for visually Impaired People	NA	250
2019	Ms.J.Jancy Claret	A Novel Approach for Smart Healthcare in Secure Cloud of things	NA	250
2019	Mr.M.Vengateswa ran	A Innovative hot Topic Detection Schema with Synthesis of Image and Short Text Knowledge Retrieval From Twitter	NA	400
2019	Mr.M.Vengateswa ran	Voice Disorder Recognition and analysis using Knowledge Engineering Techniques	NA	500

2019	Mr.M.Vengateswaran	Efficient Vehicle Smoke Tracking Down System using Raspberry PI in IOT Automation	NA	600
2019	Mr.M.Vengateswaran	Hadoop Based Brain Tumor disease prediction and classification using near Infrared Imaging Technology	NA	400
2019	Mr.M.Vengateswaran	A Novel Hot Topic detection framework with Integration of image Text information Retrieval from Social media	NA	350
2019	Mr.M.Vengateswaran	An Intelligent Deep Learning Approach for Brain Pathology Detection Classification using Back Propagation Neural Network	NA	250
2019	Mr.M.Vengateswaran	Search Rank Fraud and Malware Detection in Google play	NA	400
2019	R. Palanimurugan	IOT for Renewable Energy	NA	600
2019	R. Palanimurugan	International Conference on Advanced Concepts in Computational Engineering and Sciences (ICACCES 19)	NA	1000
2019	A.SRIRAM	IEEE WORKSHOP ON SMART CITY	NA	750
2019	A.SRIRAM	International Conference on Electrical Energy Systems	NA	2500

		(ICEES19)		
2019	P.SATHYARAJ	IEEE WORKSHOP ON SMART CITY	NA	750
2019	Mr. S. Sundaraselvan	International Conference on Recent Trends in Nanomaterials for Energy, Environmental and Engineering Applications (ICONEEEEA2K19)	NA	3500
2018	Mr. R. Sureshkumar	One day workshop on composites in powder metallurgy	NA	1000
2018	Mr. A. Arun	One day workshop on composites in powder metallurgy	NA	1000
2019	Mr. A. Arun	International Conference on Multidisciplinary Research (ICMR2019)	NA	2500
2019	Mr. G. B. Sathishkumar	National Workshop on Processing of Composite Materials (PCM 19)	NA	1000
2019	Mr. G. B. Sathishkumar	International Conference on Multidisciplinary Research (ICMR2019)	NA	2500
2019	Mr. G. B. Sathishkumar	International Conference on Recent Trends in Nanomaterials for Energy, Environmental and Engineering Applications (ICONEEEEA2K19)	NA	3500
2019	Mr. G. B. Sathishkumar	National Conference on Recent Advances in Mechanical Engineering	NA	2000

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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)
2019	Introduction to Big Data Analytics	Introduction to Big Data Analytics	16/08/2018	17/08/2018	15	5
2019	AICTE Sponsored Faculty Development Program for Students Induction Program	Nil	17/05/2019	19/05/2019	34	0
2019	National conference in advanced technologies in power engineering and wireless sensor network	Nil	20/03/2019	20/03/2019	33	0
2019	Guest lecture in recent issues in power system	Guest lecture in recent issues in power system	13/02/2019	13/02/2019	9	4
2019	Guest lecture in power plant engineering (Mechanical)	Guest lecture in power plant engineering (Mechanical)	25/02/2019	25/02/2019	15	6

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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
AICTE SPONSORED FDTP ON STUDENT INDUCTION PROGRAM LEVEL 0	34	17/05/2019	19/05/2019	3
AICTE SPONSORED FDTP ON STUDENT INDUCTION PROGRAM LEVEL 0	3	14/06/2019	16/06/2019	3
AICTE SPONSORED FDTP ON STUDENT INDUCTION PROGRAM LEVEL 1	4	17/06/2019	23/06/2019	7
AICTE Sponsored Faculty Development Program for Students Induction Program (Level 1)	1	20/05/2019	26/05/2019	7
PROCESSING OF COMPOSITE MATERIALS	2	16/04/2019	16/04/2019	1
RECENT DEVELOPMENTS AND FUTURE TRENDS OF NANO TECHNOLOGY IN AUTOMOBILES	2	12/04/2019	14/04/2019	3
AICTE STRUCTURAL ANALYSIS I	2	16/05/2019	22/05/2019	7
AICTE FLUID MECHANICS	2	24/06/2019	29/06/2019	6
Introduction to Big Data Analytics	15	16/08/2018	17/08/2018	2
Java Fundamentals and Programming	1	27/08/2018	31/08/2018	5
Salesforce Essentials for Business Specialists	1	23/07/2018	27/07/2018	5
Distributed Systems	1	15/12/2018	28/12/2018	14
Service Oriented	1	12/06/2019	17/06/2019	6

Architecture				
Research methodologies using recent Tools and Techniques	1	20/06/2019	22/06/2019	3
NS CMOS mixed signal architecture	1	27/05/2019	09/06/2019	14
METAMATERIAL APP EVALUATION TECH	1	22/04/2019	27/04/2019	6
QIP Short term course on Fundamental and practical aspects of corrosion	2	22/06/2019	26/06/2019	5
QIP Short term course on Laboratory and Ergonomic Safety for Engineers	2	10/06/2019	14/06/2019	5
QIP Short term course on Carbon Nanomaterials Recent Advances and Functional Applications	3	20/05/2019	24/05/2019	5
Faculty Development Training Programme on Metrology and Measurements	3	13/05/2019	18/05/2019	6
Faculty Development Training Programme on Design of Machine Elements	3	10/06/2019	15/06/2019	6

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

Teaching		Non-teaching	
Permanent	Full Time	Permanent	Full Time
5	0	2	0

6.3.5 – Welfare schemes for

Teaching	Non-teaching	Students
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6.4 – Financial Management and Resource Mobilization

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

Once in year statutory audit is conducted by the professionals. Audit is done by Government recognised Chartered Accountant. Internal audit is performed twice in a year. The institution has a predefined mechanism for internal and external audit. Internal audit is conducted by the internal auditor of the Institute. External audit is conducted by the chartered accountant. At the end of every academic year stock of every department is verified by the team of faculty members who act as internal auditors. The qualified remarks if any, given by the auditor are taken into consideration for future course of actions.

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
Sri Thirunavukkarasu Dhanalakshmi Educational and Charitable Trust	478894	Students Association Activities
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6.4.3 – Total corpus fund generated

125000

6.5 – Internal Quality Assurance System

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

Audit Type	External		Internal	
	Yes/No	Agency	Yes/No	Authority
Academic	Yes	Dr.N.Azhaghumoo rthy	Yes	Heads of the Departments
Administrative	Yes	Dr.R.Ravikumar	Yes	Office Superintendent

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

Parents Teachers Meet

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

Staff Development Training Programme Capacity Building Programme Orientation Programme Soft Skills Training Programme Women Development Programme

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

Redefining the Course Outcomes and Programme Outcomes Setting the benchmarks for measuring the outcome of COs and POs Submitting proposal for getting NBA Accreditation

6.5.5 – Internal Quality Assurance System Details

a) Submission of Data for AISHE portal	Yes
b)Participation in NIRF	Yes
c)ISO certification	Yes
d)NBA or any other quality audit	Yes

6.5.6 – Number of Quality Initiatives undertaken during the year

Year	Name of quality initiative by IQAC	Date of conducting IQAC	Duration From	Duration To	Number of participants
2018	Workshop on modern teaching tools and techniques	22/06/2018	22/06/2018	22/06/2018	73
2018	Outcome Based Education	11/12/2018	11/12/2018	11/12/2018	54
2018	Effective Mentoring System	02/07/2018	02/07/2018	25/06/2019	1072
2018	Rubrics for Project Evaluation	05/04/2019	05/04/2019	05/04/2019	35

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
Mother Feeding day	01/08/2018	07/08/2018	390	0
Swatch Bharat awareness rally	01/08/2018	15/08/2018	90	60
Women's Mini Marathon Celebration	12/10/2018	12/10/2018	1000	0
Women's Day (Feel special, Build smart and innovate to change)	08/03/2019	08/03/2019	412	0
International Yoga day celebration	21/06/2019	21/06/2019	20	180
Entrepreneurship awareness camp	05/09/2018	07/09/2018	30	110

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

10 percent of total energy requirement is met by solar power panel

7.1.3 – Differently abled (Divyangjan) friendliness

Item facilities	Yes/No	Number of beneficiaries

Physical facilities	No	0
Provision for lift	No	0
Ramp/Rails	Yes	0
Braille Software/facilities	No	0
Rest Rooms	Yes	0
Scribes for examination	Yes	0
Special skill development for differently abled students	No	0

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	16/08/2018	666666	Unnat Bharat Abhiyan	Environment cleanliness and Digital Literacy	105

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

Title	Date of publication	Follow up(max 100 words)
Handbook to students and staff	02/07/2018	Students and staff must adhere to the instructions given in the handbooks

7.1.6 – Activities conducted for promotion of universal Values and Ethics

Activity	Duration From	Duration To	Number of participants
National level yoga championship	07/01/2019	07/01/2019	500
Science and technology capacity building for industrial needs programme (Phase I)	30/01/2019	01/02/2019	230
Science and technology capacity building for industrial needs programme (Phase II)	06/02/2019	08/02/2019	350

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

Plantation of trees Restrictions for plastic usage Reduced usage of paper and

electricity Usage of colour coded dustbins Awareness boards and stickers Rain Water harvesting

7.2 – Best Practices

7.2.1 – Describe at least two institutional best practices

1. Efficient implementation of curriculum for fostering effective knowledge transfer.

1. Goals

- To ensure that courses offered to students are allotted to competent faculty members who have adequate expertise and experience to teach the course.
- To ensure that the faculty member, well ahead of the beginning of the semester, prepare a set of course objectives and outcomes, adequate study material, presentation material, videos, software tools, lesson plan, question bank and get approved by HOD/Principal.
- To monitor course delivery continuously during the progress of the semester based on the feedback/input given by the stake holders.

2. The Context

In any higher educational institution, knowledge transfer is one of the most important areas to be focused. In this context, establishing a robust system to scientifically define the outcomes that are to be achieved, developing processes to transfer the knowledge and measuring the attainment of the outcomes quantitatively are followed periodically. Appropriate steps are taken for continuous improvement which is very essential.

3. The Practice

In the beginning of the every semester, it is ensured that teachers of all the courses offered are well equipped to handle the courses assigned to them. As the semester progresses, courses are delivered as per the lesson plan prepared. Periodically head of the department reviews the progress of the course delivery and ensure that the course delivery is in line with the lesson plan. In case of any deviation, suitable measures are taken to bring it in line with the lesson plan. The feedback is collected from students and appropriate measures are taken as detailed below:

1. Feedback from the students collected in the Class Committee meeting arranged after the first and second internal assessment tests.
2. Feedback is taken from the students on the teaching of every course at the end of the semester.
3. Once in a year parent teacher meeting is arranged to get parents' views also. For all the concerns raised appropriate actions are taken.

Performance of the students in the internal assessment tests is taken as an indicator and used to categorize students.

4. Evidence of Success

The following figures indicate that the overall improvement in the university results and placement of students with consistent pass percentage are achieved, even with increasing number of graduates year after year.

5. Problems Encountered and Resources Required

A great deal of time is to be set apart by all the faculty members in monitoring, assessment and relevant documentation, apart from the time spent for the class room teaching.

2. Formation of Department Associations

1. Goal

- To make students aware of current trends
- To develop a platform where the technical innovativeness of students could be nurtured.
- To enhance the technical innovativeness of our students by organizing workshops, Guest Lectures, symposium and conference under the banner of association in order to attract the interest of the students towards technical aspects of their education.

2. The Context

The contextual feature behind the department association created for each and every department of this institution is to expose students to current trends in industries by conducting workshops, Guest Lectures, symposium and conference.

3. The practice:

The association is inaugurated at the beginning of every academic year and the various association activities are conducted throughout the year. The students from the final year are appointed as president and secretary and responsibilities are assigned to them while organizing activities under banner of department association which helps to improve organizing skills of the students.

4. Evidence of success

Students' get exposed to various technologies and recent trends in industries. Final year students are able to do projects in recent trends and technologies with confidence. Student knowledge is getting improved and makes them globally

competent. Students get good placement opportunities and found it easier to crack the test conducted during interviews. 5. Problems encountered and resources required The problems encountered during the practice are to identify appropriate resource person and planning various activities based on university academic schedule. This is handled by having link with industrial experts and the faculties of the department play major role in bringing by appropriate resource person. 3. Effective Mentoring System 1. Goal The objectives of the practice followed by the Institute are: • Improvement of teacherstudent relationship • Counseling students and interaction with them for problem solving • Focusing to train students for improvement in the global economy and quality of life of the students and public in the society. • Guiding students to choose right career path for job, higher studies, Entrepreneurship, etc. • Monitor, educate, inform, regulate and empower the students' progress among the parents and students. 2. The Context The contextual feature behind the system is to make the parents aware of their ward's growth. The challenging task is that most of the parents are illiterate. Even some of the parents are not able to read, write and use mobile phones. In this context, the tutor ward system helps the parents to know about their ward's progress. 3. The practice: Each staff is allocated with 15 students under this system. The allotted students are monitored by the faculty and they inform the parents periodically. The staff will meet the students and counsel them periodically. The progress of the students is informed to the parents by letter. As most of them are not able to read we call them in person and explain. Parents meetings are conducted periodically. Weak students are identified and given extra coaching for them to achieve success in their field. As monitoring, assessing and mentoring are the basic criteria of higher education system of India, this system is on par with the context of higher education. 4. Evidence of success Students' performances are assessed periodically. Weak students are identified and given extra coaching classes. This has good impact in their studies and results. The weak students have good success rate in the examinations against the fixed targets. 5. Problems encountered and resources required The problems encountered during the practice are co operation of the parents and lack of awareness about technical education among parents. As most of them are not aware of the importance of higher education system, steps are taken to make them aware of the technological growth by conducting awareness programmes. 4. Knowledge DayProject Context 1. Goal • Promoting interest in Science and Technology among younger generation. • Encouraging scientific and technological creativity among students and inculcating a sense of pride in their talent. • Providing exploratory experiences, encouraging creative thinking and promoting psychomotor skills among students through self designed models or projects. • Encouraging problem solving approach and developing appropriate technologies, as solutions to daily life problems. • Popularizing latest technology among masses and creating an awareness regarding its impact on socioeconomic and sustainable development of the country. 2. The Context The contextual feature behind the system is to provide the platform and unleash the potential of the students by showcasing their innovative projects developed either as Industry Defined Problem or User Defined Problem and provide an opportunity for the students to demonstrate their learning experience. 3. The practice Every year Knowledge Day is celebrated, on 15th Aug. Students from all classes exhibit their innovative projects, working models and this provide platform for the students to showcase their innovations and act as the tool to motivate students. 4. Evidence of success The function has been a result of good hard work done by the students who showed good enthusiasm to display their projects. The function generated a high degree of excitement in the faculty and students of the college. The students are motivated by the prizes and certificates. This function plays major role in motivating students to do innovative projects. 5. Project based learning Goal The objectives of this project based learning of this institution are as follows: • To enhance the innovative skills of the

student • To encourage the students to make projects to meet the challenges in current scenarios • To obtain the exposure of technical skills regarding project development • To induce the students to participate in the project expo conducted by the various colleges/universities • It also develops the presentation skill of the student when the project has been exhibited The Context The contextual feature of this system is to make technically well equipped students by giving chance to learn and create the innovative projects. Here it gives an opportunity to analyze the industrial and social problems and make solutions for them through the project development. The practice KNOWLEDGE DAY has been conducted on August 15th 2018 to showcase their innovations and faculty members has been deputed as mentors for the project team and encouraged them to participate in HACKATHON and other events conducted as Project Expo. Evidence of success The students have undergone their academic project with fullfledged involvement and innovative ideas. The following students from the various departments of this institution has been participated with their innovative projects and won the prizes in those events.

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

<http://aec.org.in/naac/>

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

Our institution is located in a rural area. Many of our students are from villages. Many students belong to first graduate category. Keeping this in mind, our college gives more importance to enhance the skills of the students to face the global challenges. Motivational programmes are conducted to make them aware of the society. Experts from all walks of life, Indian Police Service (IPS), Indian Administrative Service (IAS), Doctors, Environmentalists, Social activists, legal experts, business people, Human resource managers, sports personalities, and motivational speakers are invited and awareness programmes are conducted to enhance the skills of the students in all aspects to face the society with confidence. Moreover the students are encouraged to face the updated technological developments in the field of science and technology. Students are encouraged to participate in the programmes such as Hackathon and ICTACT youth Talk. Certificate courses are conducted by international certified organization such as CCNA, IT Essentials and AUTODESK.

Provide the weblink of the institution

<http://aec.org.in/naac/>

8.Future Plans of Actions for Next Academic Year

1. To get approval for new programmes such as BE Agricultural Engineering, BE Biomedical Science and ME Thermal Engineering
2. To get NBA accreditation for atleast 4 programmes of this institution
3. To encourage the faculty members to pursue their PhD programmes
4. To collaborate with Government Organisations to conduct technology oriented programmes
5. To inculcate project based learning environment among the students to encourage them to participate in project expos.