



## Yearly Status Report - 2018-2019

### Part A

#### Data of the Institution

1. Name of the Institution	DHANALAKSHMI SRINIVASAN ENGINEERING COLLEGE
Name of the head of the Institution	S.Durairaj
Designation	Principal
Does the Institution function from own campus	Yes
Phone no/Alternate Phone no.	04328-220333
Mobile no.	9585594580
Registered Email	principal@dsengg.ac.in
Alternate Email	principaldsec@dsgroupmail.com
Address	Thuraiyur Road, Perambalur
City/Town	Tiruchirappalli
State/UT	Tamil Nadu
Pincode	621212

#### 2. Institutional Status

Affiliated /	Affiliated
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Constituent	
Type of Institution	Co-education
Location	Rural
Financial Status	Self financed
Name of the IQAC co-ordinator/Director	Mrs.B.Karthiga
Phone no/Alternate Phone no.	09443412750
Mobile no.	9443412750
Registered Email	iqacdsec@gmail.com
Alternate Email	iqacdsec1@gmail.com

### 3. Website Address

Web-link of the AQAR: (Previous Academic Year)	<a href="https://www.dsengg.ac.in/2019/AQAR-2017-18.pdf">https://www.dsengg.ac.in/2019/AQAR-2017-18.pdf</a>
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### 4. Whether Academic Calendar prepared during the year

Yes

if yes, whether it is uploaded in the institutional website: Weblink :

<https://www.dsengg.ac.in/2019/ACADEMIC%20CALENDAR%202019>

### 5. Accrediation Details

Cycle	Grade	CGPA	Year of Accrediation	Validity	
				Period From	Period To
1	A	3.05	2015	03-Mar-2015	02-Mar-2019

### 6. Date of Establishment of

14-Mar-2014

## 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 participant beneficiaries
I LEARN C2 Campaign	20-Aug-2019 9	814
I LEARN E3 (Educate, Enhance and Expertise) Campaign	20-Aug-2019 9	584
I LEARN G4 Campaign	20-Aug-2019 9	797
FEP- Faculty Enrichment Programme	14-Sep-2019 1	336
Workshop on Art of Teaching	23-Mar-2019 1	160
Special lecture on Outcome Based Education	03-Apr-2019 1	120

L::asset('/', 'public/').'/public/index.php/admin/get\_file?file\_path='.encrypt('Postacc/Special\_Status/'. \$instdata->upload\_special\_status)}}

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## 8. Provide the list of funds by Central/ State Government- UGC/CSIR/DST/DBT/ICMR/TEQIP/ Bank/CPE of UGC etc.

Institution/Department/Faculty	Scheme	Funding Agency	Year of award with duration	Am
No Data Entered/Not Applicable!!!				

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

Yes

Upload latest notification of

[View Link](#)

formation of IQAC	
<b>10. Number of IQAC meetings held during the year :</b>	<b>4</b>
The minutes of IQAC meeting and compliances to the decisions have been uploaded on the institutional website	<b>Yes</b>
Upload the minutes of meeting and action taken report	<a href="#">View Uploaded File</a>
<b>11. Whether IQAC received funding from any of the funding agency to support its activities during the year?</b>	<b>No</b>

**12. Significant contributions made by IQAC during the current year(maximum five bullets)**

• Proposing a New UG course B.Tech Pharmaceutical Technology under the affiliation of Anna University and AICTE • Got a Permanent Affiliation Anna University for B.E Civil Engineering Course • Planned to Prepare t Fresh Autonomous Proposal to UGC and Anna University • Faculty Enrichme Programme (FEP) has been arranged for all the faculty members for updat the technical skills and communication skills of the faculty. • Prepari AQAR report.

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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
Remedial Class	As per 2017 regulations, Choice Based Credit System (CBCS) introduced in affiliated engineering colleges during 201718 Under this system, "The students who dont have any arrears

	<p>the first semester alone will be allowed to study in the fourth year or seventh semester. For the betterment of the students' community, remedial class were scheduled and recd the portions of the syllabus for the third year students of all disciplines in order to clear their backlogs in the first semester. Feedback was collected from the students. Students were emphasized that they are much benefitted through this remedial class. They also mentioned that the classes were helpful to remove their myths and it ends with positive beliefs.</p>
Study Hour	<p>Hostel study hour has been undertaken in the college campus till 7.30 pm which has effectively reduced the mobile usage and increased the academic performance of the students.</p>
SIM- Student Initiative Material	<p>Students are asked to refer their Learning material and write a part B questions in each subject consisting of minimum of 10 questions which has to be answered thereby they can prepare their material. It effectively increased the students to access the library and the question banks.</p>
SHG (SELF HELP GROUP)	<p>SHG has been created based on the interest of faculty members to guide the students. Motivation, Lecture / Presentation session have been arranged for all classes to mould the students in positive aspects, to enhance the writing skills of the students, to evoke a valuation procedure to all the students. A faculty will be given an hour to deliver the all details.</p>

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14. Whether AQAR was placed before statutory body ?	Yes				
<table border="1"> <thead> <tr> <th>Name of Statutory Body</th> <th>Meeting Date</th> </tr> </thead> <tbody> <tr> <td>Management</td> <td>14-Apr-2019</td> </tr> </tbody> </table>		Name of Statutory Body	Meeting Date	Management	14-Apr-2019
Name of Statutory Body	Meeting Date				
Management	14-Apr-2019				
15. Whether NAAC/or any other accredited body(s) visited IQAC or interacted with it to assess the functioning ?	Yes				
Date of Visit	14-Dec-2018				

16. Whether institutional data submitted to AISHE:	Yes
Year of Submission	2019
Date of Submission	12-Jan-2019
17. Does the Institution have Management Information System ?	Yes
If yes, give a brief description and a list of modules currently operational (maximum 500 words)	<p>The Trust will take care of functioning and operations of academic and administrative aspects of the Institution. Governance is the key activity that connects between the management, faculty, staff, students and the community. We believe it should be effective, efficient and economical execution of its duties. We support modern governance and proper administration and believe these should be carried out in a way that actively acknowledges diversity, that is respectful of identity and serious belief and that reflects a balance. Institute has a governing body in place wherein members are drawn from distinguished cross sections of the society. The effective governance, leadership and management are evident from its long history of disturbance free performance in imparting quality higher education. It is mainly because of the highly responsive compact management which gets constant inputs and feedback from the administrative and academic heads.</p>

## 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. Exp

The Academic Calendar serves as an information source and planning tool for students and staff. This serves as a key resource for important dates and academic activities planned. The academic calendar contains the details of syllabus coverage for test, start date and end date for slip test, and model test. Structured time table will also have impact in proper work. A well thought-out timetable basically helps you take control of one hour to the next. Course plan is a vital component of the teaching process. Course plan is being prepared well in advance. It is distributed

day of reopen so that students can adhere themselves to listen to Learning Materials Verification (LMV) Committee verifies the Learning are the backbone for the students to prepare for their exams. Learning contains Course plan, Part A questions (20 soft copy) and Part B (written), Assessment questions. All the questions have to be set by university question papers. Syllabus coverage form is being collected of assessment to ensure for the divergence in the completion of portfolio internal exam question papers (AT-1, AT-2, and MODEL) are collected which strongly emphasize about the completion of syllabus before internal assessment marks system in general reflects the performance both in theory and lab. Based on this information faculty will guide properly which emphasizes the growth of various abilities thereby enable to take corrective action as and when required. Theory: Web portal 1 procedure is formulated as: • Assessment Mark 50 • Continuous Assessment Additional Assessment Mark : 7 (secure >=30) Continuous monitoring of carried out through continuous assessment process. The primary aim of continuous assessment is to improve the performance of students. CA marks in logbook for each subject. Web portal 1 contains only attendance Assessment test(50 mark) for web portal 2 and web portal 3 is categorized test 1+Slip test 2=Mark has to be averaged for 25. • Attendance=10 • Continuous Assessment test(50 mark) for web portal 4 is categorized class attendance has to be converted for 25. • Attendance=10 • Assessment report has been designed and to be maintained by the department Head for 3 years. Assignments are one of the key factors in continuous assessment learning of a subject. Three modes of assignments are introduced presentation and paper work to enhance the teaching learning process. Assignments will be planned before the day of assessment test, where students can discuss their faculties regarding the subject and also faculties can plan the assignments for the important topic, so that the absentees for the regular class can attend. Academic audit has been planned to monitor the progress of all

### 1.1.2 - Certificate/ Diploma Courses introduced during the academic year

Certificate	Diploma Courses	Dates of Introduction	Duration	Focus on employability/entrepreneurship	
GIS	NA	02/06/2018	1	Employability and Entrepreneurship	Be
Biomedical equipment Calibration And Testing	NA	10/10/2019	1	Employability	Bi d
Mat Lab-Medical Image Processing	NA	05/07/2019	1	Employability	Pro
Computer programming using Python	NA	01/11/2018	1	Employability	Pr
Open Source Technologies	NA	08/04/2019	1	Entrepreneurship	s
Fatigue and thermal stress	NA	01/11/2018	1	Employability	

analysis of steel pipes using ANSYS software					
Embedded System	NA	01/11/2018	1	Employability and Entrepreneurship	
AUTOMATION IN PLC AND SCADA	NA	01/11/2018	1	Employability	emp

## 1.2 - Academic Flexibility

### 1.2.1 - New programmes/courses introduced during the academic year

Programme/Course	Programme Specialization	Date
BTech	Pharmaceutical Technology	:

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### 1.2.2 - Programmes in which Choice Based Credit System (CBCS)/Elective course system implement Colleges (if applicable) during the academic year.

Name of programmes adopting CBCS	Programme Specialization	Date of ir CBCS/Elect
BE	MECHANICAL ENGINEERING	04
BE	BIOMEDICAL ENGINEERING	04
BE	CIVIL ENGINEERING	04
BE	ELECTRONICS AND COMMUNICATION ENGINEERING	04
BE	ELECTRICAL AND ELECTRONICS ENGINEERING	04
BE	COMPUTER SCIENCE AND ENGINEERING	04
BTech	INFORMATION TECHNOLOGY	04
ME	CAD CAM	04
ME	POWER ELECTRONICS AND DRIVES	04
ME	EMBEDDED SYSTEMS	04
ME	COMMUNICATION SYSTEMS	04
ME	COMPUTER SCIENCE AND ENGINEERING	04
ME	COMPUTER SCIENCE AND ENGINEERING (WITH SPECIALIZED NETWORKS)	04
MBA	MASTER OF BUSINESS ADMINISTRATION	04
MCA	MASTER OF COMPUTER APPLICATIONS	04

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

	Certificate	Diplo
Number of Students	226	



### 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 St
SOLID WORKS ESSENTIAL	13/07/2018	

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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 P
No Data Entered/Not Applicable !!!		

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### 1.4 - Feedback System

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

Students	
Teachers	
Employers	
Alumni	
Parents	

#### 1.4.2 - How the feedback obtained is being analyzed and utilized for overall development of the ins words)

##### Feedback Obtained

Feedback regarding the Teaching-Learning process is collected from stu  
feedback form and during Counselling session and Class Committee Meeti  
Committee Meeting (CCM):  Class Committee Meetings are conducted twic  
to convey information regarding academic activity and know the issues  
is headed by the Chairperson.  The members of Class Committee meeting  
Chairperson 2. Convener 3. Class Advisor 4. Faculty for handling the s  
Student representative  Initially Circular is framed with agenda and  
faculty and students. On the day of meeting, points concerning agenda  
discussed. Chairperson will circulate the minutes of the meeting to th  
charges.  Finally Student representatives are asked to discuss the sa  
classroom, in which the actions taken by the department shall be trans  
student.  The Action taken for the issues discussed will be intimated  
Principal through HOD. • Students feedback: The feedback process provi  
opportunity to look strengths and weaknesses of teaching-learning proc  
eyes of students, the prime stakeholders. The feedback on teaching-lea  
periodically collected by means of a questionnaire from the students f  
courses. The questionnaire comprises of questions which include the co  
skills, learning skills and observation skills of the course instructo  
systematic and scientific analyses of the collected data are used to s  
and mid-course correction in modifying, altering and improvising the e  
teaching-learning process. The results of the feedbacks help the facul  
themselves in effective teaching-learning process. Feedback reports ar

HOD and discussed with the faculty concerned and necessary corrective actions are taken. Set of questions was given to the students to get u impartial open-minded answers about courses. The parameters include kn teaching skills, presentation, communication, and attitude etc,. Apart questionnaire, feedback is collected during class committee meeting an counseling session. The collected feedback is processed by the HODs an will be sorted out. If the faculty performance is not satisfied, the f encouraged to improve their teaching skills by undergoing FDP and FEP action. Feedback on facilities: A questionnaire has been framed regard of the college .The details will be collected during various stakehold Parents meet, Alumni meet and Students meet. This will be analyzed by Professors and it will be put forth to the Principal thereby to the ma further scrutiny, the issues will be sort out. Feedback from Employers be collected from the employers during their visit to the campus. Focu to their suggestions and the necessary corrective actions will be take

## 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 Applicati received
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No Data Entered/Not Applicable !!!

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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 institution teaching o PG courses
2018	555	47	272	64

### 2.3 - Teaching - Learning Process

#### 2.3.1 - Percentage of teachers using ICT for effective teaching with Learning Management Systems 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	Numberof sm classrooms
336	336	11	94	8

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

• Counseling is a systematic student-centric process based on a close student-advisor relationship. Students in achieving educational, career, and personal goals. The nature of face-to-face mentoring suggests, counsel, coach and teach. • Advising is concerned not only with a specific issue but also students' rational processes, environmental and interpersonal skills, behavior awareness, problem making and evaluation skills hence to empower them in their learning and personal development. Counseling is that the student can freely and confidentially express their academic, emotional and concerns to a professional who can help them effectively. • Counseling support has two dimensions: academic related issues, personal issues and career related issues. □ Academic counseling is educational guidance and assistance for students by determining appropriate education solutions. by a counselor help students to familiarize them with social etiquette, peer group interaction, attendance can help them to overcome emotional problems besides reducing dropout rates. □ Career counseling understanding their values, interests, skills, passions and world outlook which influence their career (Human Resource Development Cell) also provides support in securing jobs by counseling and job Writing tips and preparation to face interviews and also the cell organizes On-campus interviews year. Process of counseling has been elaborated as follows: □ Institute level coordinators are nominated □ Department level coordinators are identified by the HOD and Institute level coordinators. □ regarding the mode of counseling and their impact will be made before the start of counseling. coordinators are responsible for allocating the students and venue. Care must be taken in allotting to each faculty and senior faculty members to be allotted for junior classes. □ Student History regarding personal details along with the semester results has to be periodically updated and the consolidated at the department level has to be submitted to Institute Level Coordinator and the same to be brought to the Principal.

<b>Number of students enrolled in the institution</b>	<b>Number of fulltime teachers</b>	<b>M</b>
602	336	

## 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
25	25	25	25

### 2.4.2 - Honours and recognition received by teachers (received awards, recognition, fellowships at 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 from Government
<b>No Data Entered/Not Applicable !!!</b>			

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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 year

Programme Name	Programme Code	Semester/ year	Last date of the last semester-end/ year-end examination	Date of declaration semester-end/ year-end
<b>No Data Entered/Not Applicable !!!</b>				

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### 2.5.2 - Reforms initiated on Continuous Internal Evaluation(CIE) system at the institutional level (25)

Internal assessment marks system in general reflects the performance both in theory and lab. Based on this information faculty will guide properly which emphasizes the growth of various abilities thereby enable to take corrective action as and when required. Theory: Web portal procedure is formulated as: • Assessment Mark 50 • Continuous Assessment Additional Assessment Mark : 7 (if student secure >30) Continuous students will be carried out through continuous assessment process. The introducing continuous assessment is to improve the performance of students will be maintained in logbook for each subject. Web portal 1 contains Continuous Assessment test(50 mark) for web portal 2 and web portal 3 : • Slip test 1 Slip test 2 Mark has to be averaged for 25. • Attendance 10 Continuous Assessment test(50 mark) for web portal 4 is categorized as attendance has to be converted for 25. • Attendance 10 • Assignment 15 Marks for lab are calculated as : • Attendance 25 • Observation 25 • Final Exam 25

### 2.5.3 - Academic calendar prepared and adhered for conduct of Examination and other related matters

The Academic Calendar serves as an information source and planning document for students and staff. This serves as a key resource for important dates and academic activities planned. The academic calendar contains the detail of syllabus coverage for test, start date and end date for slip test, and model test. Apart from the test, in order to improve the performance learning process, class committee has been framed. The schedule of meetings also planned well in advance in academic calendar. Professional activities each department will be designed in academic calendar. To focus on slow special slot has been prearranged for revision class in academic calendar are important to the success of any student. It is displayed in our college that students and staff will be able to view relevant dates for each a location. Probably the test will be conducted on the scheduled date. In deviation under unavoidable circumstances, the date of exam will be moved Exam cell and will be intimated to the Department under the concurrence

## 2.6 - Student Performance and Learning Outcomes

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

<https://www.dsengg.ac.in/>

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 examination
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No Data Entered/Not Applicable !!!

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## 2.7 - Student Satisfaction Survey

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

<https://www.dsengg.ac.in/>

### 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
No Data Entered/Not Applicable !!!				

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#### 3.2 - Innovation Ecosystem

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

Title of workshop/seminar	Name of the institution
INTELLECTUAL PROPERTY RIGHTS AND INNOVATIONS 11.02.2017	MBA

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
No Data Entered/Not Applicable !!!			

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

Incubation Center	Name	Sponsored By	Name of the Start-up	Nature of Start-up	Date of start-up
0	nil	0	nil	nil	

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#### 3.3 - Research Publications and Awards

3.3.1 - Incentive to the teachers who receive recognition/awards

State	National	International
0	1	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
NA	0

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

Type	Department	Number of Publication	Average Impact
National	CIVIL	2	5.

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

Department	Number of Publication
MCA	5
MBA	5
MECH	15
IT	5
EEE	20
ECE	12
CIVIL	15
CSE	5
BME	13

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

Title of the Paper	Name of Author	Title of journal	Year of publication	Citation Index	Institution as mentioned in publication
Image Registration based Cervical Cancer Detection and Segmentation Using ANFIS Classifier	B.Karthiga	Asian Pacific Journal of Cancer Prevention	2018	2	Dhanal Srinivasan Engineering College
Three-Dimensional Finite Element Analysis of Surface Mesh Model of Human Tibia Bone	K Pradeep, VE Jayanthi, K Hemalatha, K Adalarasu, M Jagannath	Research Journal of Pharmacy and Technology	2018	1	Dhanal Srinivasan Engineering College
Securing video cloud storage by ERBAC mechanisms in 5g enabled vehicular networks	R Gopi, A Rajesh	Springer US-Cluster Computing	2018	5	Dhanal Srinivasan Engineering College

Characterization and Optimization of TIG welded supermartensitic stainless steel using TOPSIS	M.Chellappan K.Lingadurai P.Sathiya	Science Direct- Materials Today: Proceedings- Elsevier	2018	3	Dhanal Srini Engine Coli
DESIGN OF MULTI ROBOT SYSTEM USING FUZZY BASED IOT	K.Bharathi <sup>1</sup> and Dr.K.Anbarasan <sup>2</sup>	International Journal OF Research Science and Engineering	2018	1	Dhanal Srini Engine Coli
Designing a Novel Framework for Evaluation of Trust in Mobile Ad-Hoc Networks	R Raja, P Ganesh Kumar	Journal of Computational and Theoretical Nanoscience	2018	1	Dhanal Srini Engine Coli
Network performance with DDOS attack using IAFV for botnet identification	R Abinaya, S Nandha Kumar	International Journal of Advance Research, Ideas and Innovations in Technology	2018	1	Dhanal Srini Engine Coli
A magnetic Fe <sub>3</sub> O <sub>4</sub> decorated TiO <sub>2</sub> nanoparticles application for photocatalytic degradation of methylene blue (MB) under direct sunlight irradiation	P Govindhan, C Pragathiswaran, M Chinnadurai	Journal of Materials Science: Materials in Electronics	2018	7	Dhanal Srini Engine Coli
ISAY: SMS Service Using ARM	D Vijayakumar, S Manikandan, K Parthasarathy	Applied Science Reports	2018	1	Dhanal Srini Engine Collegeha
Online measurement of water quality and reporting system using prominent rule controller based on aqua care-IOT	M Parameswari, M Balasingh Moses	Design Automation for Embedded Systems	2018	11	Dhanal Srini Engine Coli

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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	Nu ci ex c
Human machine interfacing technique for diagnosis of ventricular arrhythmia using supervisory machine learning algorithms	Dr. Hemalatha Karnan	Concurrency and Computation: Practice and Experience	2018	1	
Online measurement of water quality and reporting system using prominent rule controller based on aqua care-IOT	M Parameswari, M Balasingh Moses	Design Automation for Embedded Systems	2018	14	
Influence of exhaust gas recirculation on combustion and emission characteristics of diesel engine fuelled with 100 waste cooking oil methyl ester	K Nanthagopal, R Thundil Karuppa Raj, B Ashok, T Elango, SV Saravanan	Waste and Biomass Valorization	2019	14	
Efficient analysis of water quality measurement reporting system using IOT based system in WSN	M Parameswari, M Balasingh Moses	Cluster Computing	2019	14	
Treatment of Urinal Waste Water using Natural Coagulants	P Balamurugan, K Shunmugapriya	International Journal of Recent Technology and Engineering (IJRTE) Volume-8 Issue	2019	14	
A magnetic Fe <sub>3</sub> O <sub>4</sub> decorated TiO <sub>2</sub> nanoparticles application for	P Govindhnan, C Pragathiswaran, M Chinnadurai	Journal of Materials Science:	2018	14	



photocatalytic degradation of methylene blue (MB) under direct sunlight irradiation

Materials in Electronics

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

Number of Faculty	International	National
Attended/Seminars/Workshops	20	50
Presented papers	32	64
Resource persons	1	21

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### 3.4 - Extension Activities

#### 3.4.1 - Number of extension and outreach programmes conducted in collaboration with industry, co 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	N
Fire and Safety program	NSS	2	
Tree Plantation in campus	NSS	2	
DCC-Cleaning Campaign in Dsec Campus	NSS	2	
Camp	NSS	2	

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#### 3.4.2 - Awards and recognition received for extension activities from Government and other recogn year

Name of the activity	Award/Recognition	Awarding Bodies
Blood Donation Camp	Appreciation Certificate	District Collector, Perambalur

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#### 3.4.3 - Students participating in extension activities with Government Organisations, Non-Government 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
Eco-CLUB	NATIONAL SERVICE SCHEME	Tree Plantation	2
CLEANING CAMPAIGN	NATIONAL SERVICE SCHEME	DSEC CLEANING CAMPAIGN	5
NATIONAL SERVICE SCHEME	GOVERNMENT HOSPITAL, PERAMBALUR	BLOOD DONATION CAMP	2
POLLUTION AWARENESS	NATIONAL SERVICE SCHEME	PLASTIC POLLUTION AWARENESS	2
FIRE AND SAFETY	FIRE AND RESCUE SERVICES	FIRE AND SAFETY AWARENESS PROGRAM	2

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### 3.5 - Collaborations

3.5.1 - Number of Collaborative activities for research, faculty exchange, student exchange during

Nature of activity	Participant	Source of financial support
Research	1	QIP
Hospital Training	106	Management
Industrial Training	112	Management

No file uploaded.

3.5.2 - Linkages with institutions/industries for internship, on-the- job training, project work, shari etc. during the year

Nature of linkage	Title of the linkage	Name of the partnering institution/ industry /research lab with contact details	Duration From	D
IT	On Job Training	Xcel Corp	31/05/2018	31
Insurance sector	Induction Programme	IDBI Federal Life Insurance Pvt	02/01/2018	31
Health Care Sector	On Job Training	Visionary RCM	02/01/2018	31
Semiconductor Industry	Internship	Urjita Electronics	01/05/2018	31
Networking	On Job Training	CMS IT Services	01/05/2018	31

No file uploaded.

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

Organisation	Date of MoU signed	Purpose/Activities	Number of parts
IEEE Robotics Automation Society, Malaysia	01/08/2018	To organize international symposium on Robotics Manufacturing Automation	
CMS Info systems	15/10/2018	Training and Placement Services	
Learning Centre	05/09/2018	Internship with Project Support, Sponsorship	
ICT Academy of Tamilnadu	09/10/2018	Certificate Course Training	

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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 augmentation
3000000	348908

4.1.2 - Details of augmentation in infrastructure facilities during the year

Facilities
Others
Classrooms with LCD facilities
Seminar halls with ICT facilities
Campus Area
Classrooms with Wi-Fi OR LAN
Number of important equipments purchased (Greater than 1-0 lakh) during the current year
Laboratories
Class rooms

No file uploaded.

##### 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
NIRMALS	Fully	6.2.1

#### 4.2.2 - Library Services

Library Service Type	Existing		Newly Added		
Text Books	38927	4471157	993	425200	399
Reference Books	3620	1206964	528	86335	41
e-Books	603	0	150	0	75
Journals	396	674860	150	239070	54
Digital Database	2	74000	0	0	2
CD & Video	3650	282900	250	0	39
Others (specify)	6	35000	0	0	6

No file uploaded.

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

Name of the Teacher	Name of the Module	Platform on which module is developed	Date cont
ECE FACULTYMEMBER	E LEARNING MATERIAL	Institutional Website	23/
EEE FACULTY MEMBERS	E- LEARNING MATERIAL	Institutional Website	24/

[View File](#)

#### 4.3 - IT Infrastructure

##### 4.3.1 - Technology Upgradation (overall)

Type	Total Computers	Computer Lab	Internet	Browsing centers	Computer Centers	Office	Departments
Existing	953	9	603	1	0	7	41
Added	60	1	323	0	1	0	2
Total	1013	10	926	1	1	7	43

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

100 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 an
E LEARNING MATERIALS	<a href="https://www.dsengg.ac.in/dsengg-a-electricalcommu.php">https://www.dsengg.ac.in/dsengg-a-electricalcommu.php</a>

#### 4.4 - Maintenance of Campus Infrastructure

4.4.1 - Expenditure incurred on maintenance of physical facilities and academic support facilities, (

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
6000000	5939360	4500000	

4.4.2 - Procedures and policies for maintaining and utilizing physical, academic and support facilities such as sports complex, computers, classrooms etc. (maximum 500 words) (information to be available in its report) (provide link)

Maintaining and utilizing physical, academic and support facilities such as Classrooms/Laboratory The physical facilities such as Laboratories, Classrooms, Sports Complex are maintained by House Keeping under the supervision of House Keeping Staff / Floor Supervisors. Utilization of the classrooms is facilitated during working days and it is also made available to the other government and nongovernmental organizations for conducting exams during Vacations and Festivals. Repairs on masonry and plumbing works are carried out with our institutional skill. The expenditure is incurred from Maintenance. Lab equipment's are maintained by manufacturers and service personnel during summer and winter vacations. House Keeping 1. Checking water availability every day 2. Checking Drinking water availability every day 3. Cleaning Classrooms, Veranda, Office Room, Staff Rooms 4. Cleaning of Toilets every day 5. Cleaning of campus every week 6. Checking Furniture's in Class Rooms and Office 7. Checking Building cracks throughout the campus 8. Checking Electric Waterline and Sewage line every month The college has an adequate computer speed internet connections and software's, distributed in different departments laboratories, library and office. Computers are maintained by Staff members. Each laboratory has an assistant, who ensures proper maintenance of computers and hazardous equipment's are handled with care. The working hours of library is from 8.30 a.m to 6.00 p.m on working days and from 8.30 a.m to 12.00 p.m on holidays. Maintenance activities are made periodically. The activities include preservation of books from insects, dusts and shelving of reading materials on regular basis by the housekeeping /Library Staff. Training Classes and Seminars are conducted for students for competitive examinations such as GRE, TOEFL, GATE and Placement tests to motivate them for debates/ group discussions and projects for placement. Excellent infrastructure is provided for sports with 400m track and field. The play field are maintained by markers and the field equipment like balls, are also maintained regularly. The markers control the play equipment like bat, net etc., provided to the students and to collect it back safely and record it in the Equipment movement register. Power Supply and Electrical Maintenance The power supply is maintained by regular staff through proper system captive power plant on campus to handle the occasional power shut down. Garden Maintenance The garden maintenance are done by the gardener appointed by the Institution. Various club activities are involved regularly to maintain the lush green campus.

<https://www.dsengg.ac.in/dsengg-campus-hostel.php>

## 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

		stu
Financial Support from institution	DMAT Concession, Management Concession, Cut off Concession and sports Concession	4
Financial Support from Other Sources		
a) National	PMSS	7
b) International	NA	

No file uploaded.

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

Name of the capability enhancement scheme	Date of implementation	Number of students enrolled
No Data Entered/Not Applicable !!!		

[View File](#)

5.1.3 - Students benefited by guidance for competitive examinations and career counselling offered 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 passed in the examination
2018	Career Guidance Programme	0	594	0
2018	Higher education Awareness	594	594	8
2018	Entrepreneurship Development Programme	0	697	0
2018	HR CONCLAVE	0	0	0

No file uploaded.

5.1.4 - Institutional mechanism for transparency, timely redressal of student grievances, Preventor and ragging cases during the year

Total grievances received	Number of grievances redressed	Avg. number of days for redressal
8	8	45

## 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

No Data Entered/Not Applicable !!!

[View File](#)

#### 5.2.2 - Student progression to higher education in percentage during the year

Year	Number of students enrolling into higher education	Programme graduated from	Department graduated from	Name of institution joined
2018	3	UG	Biomedical Engineering	Affiliated Institutions
2018	3	UG	Civil Engineering	Affiliated Institutions
2018	2	UG	Computer Science and Engineering	Affiliated Institutions
2018	1	UG	Electronics and Communication Engineering	Affiliated Institutions
2018	8	UG	Mechanical Engineering	Affiliated Institutions

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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
GATE	8

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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
No Data Entered/Not Applicable !!!		

[View File](#)

### 5.3 - Student Participation and Activities

#### 5.3.1 - Number of awards/medals for outstanding performance in sports/cultural activities at national 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 number
No Data Entered/Not Applicable !!!					

[View File](#)

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

The Students are actively involved in organizing the several function symposium, conference and workshop through various committee headed members and they also involve them in many awareness programme through These activities have not only helped students to shape their persona helped them to become promising leaders. The Committee, club and NSS nothing but an epitome of teamwork, dedication and sincerity. Students various committees. Their active participation mould the cell activi aspects. Feedbacks are collected to increase the performance of the c

## 5.4 - Alumni Engagement

5.4.1 - Whether the institution has registered Alumni Association?

Yes

Yes, the institution has an active registered Alumni association, The conducted once in a year, during the meeting alumnae proposes and disc industrial needs from the students fraternity. Based on that we will c added course for the students to make industry oriented professional, alumni of DSEC will provide their inputs through orientation and caree the budding engineers of the Institutions.

5.4.2 - No. of enrolled Alumni:

462

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

0

5.4.4 - Meetings/activities organized by Alumni Association :

The alumni meet were conducted once in a year through HRDC cell where actively involve them and provide their valuable inputs and sugges development of the students. Through This Association we organized the and orientation programme to the students

## CRITERION VI - GOVERNANCE, LEADERSHIP AND MANAGEMENT

### 6.1 - Institutional Vision and Leadership

6.1.1 - Mention two practices of decentralization and participative management during the last year

- We applied NBA for the department BME, ECE and EEE. So audit is done monitor the process.
- Central valuation process is initiated toward Examination and Evaluation.
- Different Committees overseeing differ aspects of the institute functioning are the best example of particip in action.
- To oversee the effectiveness of individual faculty req review meetings are conducted at the end of internal assessment an omission on the part of the individual faculty to come to the r

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

Strategy Type	Details
<p>Admission of Students</p>	<ul style="list-style-type: none"> <li>• The admissions of the students are strictly followed regulation based on the Government of Tamil Nadu and Anna University. The admissions consist single window system procedure for the government quota students and through the consortium of self-financing colleges for the management quota students.</li> <li>• B.E/B.Tech. Programme - First Year:             <ul style="list-style-type: none"> <li>□ Admission to General Category of candidates will be on the basis of the marks obtained in the prescribed subjects in the qualifying examination. The marks in the prescribed subjects reduced to 200 (Mathematics 100, Chemistry 100) will be considered for Ranking.</li> <li>□ Admission to Vocational stream candidates: The academic marks in the prescribed subjects will be reduced to 200 (Related subject 100 marks and practical 100 marks). Seats are reserved following the Communal reservations. There is a counselling and counselling for vocational candidates.</li> </ul> </li> <li>• B.E/B.Tech. Programme - Direct Second Year Lateral Entry: Admission is based on the percentage marks (aggregate of V and VI semesters) obtained in Diploma (103) exam through Single Window system allotted by Anna University through Tamil Nadu Engineering Colleges (TNEA) Consortium of Self Financing Professional, Arts and Commerce Colleges in Tamil Nadu.</li> <li>• M.E/M.Tech./MBA/MCA, Degree programmes: Admission is based on the score obtained in the examinations like TANCET, MAT / CMAT which are conducted by the Anna University.</li> </ul>
<p>Industry Interaction / Collaboration</p>	<ul style="list-style-type: none"> <li>• HRDC regularly supports in arranging the events to interact with industry experts. The department also approach major vendors who are working in industry to give lectures on industry trends.</li> <li>• The institution firmly believes in industry interaction through MOUs with organizations. Signing MOUs with industries for research projects, consultancy, placement and interactive sessions like seminars, webinars and guest lectures take place.</li> <li>• Mutually-beneficial activities (based on industry requirements) are organised in every department.</li> <li>• Facilitating in-plant visits, summer and final semester internships across all disciplines and campuses.</li> <li>• Factory Visit scheme is implemented for the students to forecast the real happenings in industry.</li> <li>• Each department had launched the professional society to enhance the linkage between the students and society.</li> </ul>
<p>Human Resource Management</p>	<ul style="list-style-type: none"> <li>• The heads of the departments communicate a requirement to HRDC (HRDC) of the institution as and when vacancies arise in a department.</li> <li>• Recruitment is done based on the Anna University guidelines. Before the start of semester, workload will be reported to HRDC. Number of faculty needed is reported to HRDC. Call for applications to be posted in dailies and resumes are shortlisted and the interviews will be conducted by academic experts in the presence of HRDC.</li> <li>• Arrangement of computer training programmes related to the institution office for Non-teaching staff and office staffs. Or</li> </ul>

training programmes are organised periodically for the has training faculty to conduct E-Club, Career guidance Development Programmes (PDP). • HRDC invites different campus recruitment of students. They continuously focus of the students.

Library, ICT  
and Physical  
Infrastructure  
/  
Instrumentation

• Library: □ The central library of the college is a vast number of learning resources including textbooks, national and international journals, digital resou journals, etc., all of which are enriched every year ; tracking resource availability and an automated system transactions. □ The library has a large collection of various branches of Engineering and Technology, Science and allied fields. □ RFID cum Bar-coded Identity card □ DELNET access is provided at the digital library journals and e-books are accessed. NPTEL lecture video and maintained at the central library. □ Additional departmental libraries to provide easy and quick acces: students. • ICT: □ Provision for wi-fi facility in bo for use of the e-learning resources. □ Every departmen LCD projector, OHP Projector, System with internet Classrooms, Seminar Halls and Conference Rooms. Infrastructure / Instrumentation: □ An auditorium, ce department libraries, medical centre with an ambulance ATMs, adequate vehicle-parking space for students ; functioning effectively. □ All laboratories are equip equipment to meet the requirement of curriculum. □ All well furnished. Necessary furniture for students is p laboratory. □ The overall ambience is good enough for excel in their practical applications and to support. All laboratories have sufficient natural light, good tubes and fan arrangement. □ Laboratories kept open be as per the need. Discussions and implementations of i about mini projects and final year projects are ca innovative manner. □ CCTV cameras are installed in str on the campus. □ Adequate numbers of fire extinguish points are kept and the staff and students are trained Upgraded gym facilities □ Professional trainers wer provide training to the teams participating in ma competitions

Research and  
Development

• The Research and Development Cell is established to activities like inviting eminent scholars to address th students, organizing the conferences which act as a p the research ideas. • The committee ensures the depar for Research Centre recognition and the Ph.D holders to Recognition under Anna University, Chennai. • All the the institute have well equipped laboratories wi infrastructural facilities to carry out the research Student projects: □ To accomplish the art of project accompany towards industrial support and to enhance th project, project hour for final year students is int:

review is conducted during 7th semester. It is the process, project coordinator can be allotted taking in semester. □ The project work is monitored by Project Committee (PMC) which is initiated in 7th semester University recommends the initiation of end semester semester onwards. □ The project guide along with Project Committee conduct 3 project reviews during 8th semester rubrics □ The progress of project is periodically monitored committee headed by HOD and project coordinator. The carried out to assess both individual and team performance total evaluation, the PMC proposes a Best Project Award to the students of every programme for the best project encourage and motivate students to explore many thoughts ideas/problems. □ The department will encourage students in project events during any association activities and students to publish the paper in conference/journal faculty members are encouraged to publish their research in various National International Journals and conferences encouraged to publish research papers in refereed journals impact factor. • Motivates to submit research proposals funding agencies • The institute encourages the research providing on-duty leave to succeed in their research. the faculty members to attend research oriented seminars/workshops/conferences, etc., by providing s leave. • Encouraging faculty members to pursue Ph.D reputed universities • The institute supports the research providing high end computing facility with necessary software modern equipment • The institute central library facilities oriented books, journals e-journals for research reference institution constantly encourage in submission of funding government agencies • like TNSCT, ISRO, DRDO, D

**Examination and Evaluation**

• Examination cell plays a key role in evaluation part Cell (Exam Cell) is headed by the Chief Superintendent with supporting staff. • Further, Exam cell coordinates University regarding all examination matters. The Cell Examinations supports the Principal in regards to all matters. Any information either received or required to University are being dealt with in the Exam cell. □ guidelines, office order, notifications received by processed in the cell reply thereof prepared and after signature dispatched to the University. • The Prime responsibility Examination Cell is conducting of all examinations (Both External Exams) in fair and systematic manner under the Chief Superintendent of Examinations. • Our institutional centre for conducting Anna University Examination work of the nodal centre is all the question papers are nearby colleges. • Internal Exam: Continuous assessment introduced which includes average of two slip test Assignment marks (15) and Attendance Marks (10). □ Que systematic procedures are followed before submission of question papers to the Exam cell. Two sets of Assessment

papers (AT-1, AT-2, and MODEL) are collected well in strongly emphasize the completion of syllabus before examination. Since two sets of question papers have been there will not be any outflow in question paper. □ Syllabus coverage form is also collected before assessment to ensure completion of portions. If any syllabus coverage for a particular course, a schedule is prepared before the start of assessment tests. □ Conducting of Examination, Exam cell do the following: Making multiple copies of Question papers as per student list. □ Conducting Assessment Test and Model Exams as per the syllabus. □ Preparing Hall plan, Seating Arrangement, Duty list and □ Issuing answer script and question papers as per the schedule. □ Collecting answer script after the test. □ Issuing answer script to staff members for correction. □ Preparing mark entry for Assessment Test and Model Examinations. □ Attendance sheets for Assessment Test and Model Examinations. Valuation: The valuation is centralized for Assessment Test and Model exam. The evaluation process should be done within 2 days of Exam. The mark is entered during the valuation and submitted to exam cell. The paper is distributed to the student on the date and it is again submitted to exam cell with attendance sheet of students. □ Result: After completion of valuation, in result analysis is done to know the status of individual student and department result. And it is submitted to exam cell. The coordinator prepared cumulative status to analyse the performance of students at institution level. The continuous assessment aids in identifying the slow learners. Further counselling and special attention is imparted to the slow learners to enable them to perform well in Anna University Examinations. □ Test report: Test report is prepared and designed and to be maintained by the HOD. Test report contains number of students passed, number of students more than 75% and reason for poor performance and corrective action. □ Test report enables the course instructor to continuously monitor student performance and it's also acts as a follow up report after examination. □ Test report helps in continuous monitoring of a subject by the Head of Department as a node where clear focus for subject can be made. □ Test report entry: In Anna University, internal marks had been calculated and entered in three entries of web portal marks. Web portal 1 contains attendance, Web portal 2 to 4 contains attendance and marks. □ Internal marks will be displayed in notice board for the students. □ Revision Class: Procedure for the Conduct of revision classes is framed by the Institute level co-coordinator and its functioning is supervised by the corresponding department co-coordinator. Continuous monitoring and tracking by the course instructor during coaching of weak student, intensive coaching classes will be planned for students. □ Attention is given to the students individually. • External marks: After completion of web portal entry, hall tickets are generated based on attendance percentage above 75 by Anna University-Chennai. □ Hall tickets distributed to students. Medical claim is possible for students who do not have attendance from 65 to 75. □ Receiving Hall Ticket from Anna University Issuing it to the Students □ Exam schedule

Coordinating with Other college Exam Cells for the external Examinations. □ Exam Duty Allocation to Staff □ Appointing Staff for deputing them to other Colleges as External Invigilators. □ Confirming Internal and External Invigilators with other Colleges. □ Maintaining Stock Register □ Receiving Question Papers from University □ Preparing Hall Allotment and Seating Arrangements for University Exams. □ Commencing and closing the Examinations according to University rule. □ Student's absenteeism during Examinations is strictly maintained and it should be intimated to the University. □ Providing Attendance to External Examiners. □ Providing information to the University Squad members during the Examinations (so far not even a single malpractice case is booked). □ Conducting both Theory and Practical Examination will be done as per the University rule. □ It should be sent to University for verification and approval. □ Preparing Practical Schedule and updating the same in the University Web Portal. □ Confirming Internal and External Exam Invigilators for Practical Examinations. □ Checking Answer Booklets before the Examinations. □ Preparing Answer Booklets for External Examiners. □ Preparing Booklet Covers with Register number of the students. □ Preparing Question Papers are made as bundles and it should be sent to University for approval before the Examinations. □ Receiving University Grade sheets after the Examinations. □ Issuing the same to the students. □ Generating Issuing Exam Application Form for each student. □ Making the students to pay the Examination Fee. □ Generating Revaluation Applications, Issuing the same to the students and filled in applications will be sent to University for approval. □ University Results, displaying it for the students and preparing the same will be prepared.

**Teaching and Learning**

□ Teaching and Learning Our college is aware that Teaching and Learning process is crucial part of outcome based education. □ We implement/employs as the set of activities engaging students to enable them to acquire the knowledge, skills and attitudes. □ Academic Calendar: The academic calendar serves as an information for proper planning document for students, faculty, staff and deans. □ The academic calendar is displayed in our college website for the use by students and faculty. The academic calendar includes: □ Dates of commencement of the slip test □ Class committee □ Counseling □ Syllabus coverage status Academic Audit □ Assessment test □ Project review dates □ Revision classes □ Seminars like Seminar, guest lectures, Symposium and conference. □ Society events namely Student Enrichment Programme □ Extracurricular activities like Annual Day and Institute level cultural day • Timetable: Timetable time table will also have an impact in proper planning. □ A well organized timetable basically helps the faculty to take a day from one hour to the next. Time table consists of: □ Department code, Subject Handling Faculty Name, Subject hours, □ Faculty Name, counsellors, Class Committee Members, Chairperson □ Professional Society hour/Counselling hour, PDP hour. □ Timetables include Library hour to utilise library resources. □ Course plan is a vital component of the teaching-learning process. □ Design of course plan is inclusive of Syllabus, Objectives

and individual units learning outcomes, list of refer teaching aids, planning of assessment tests and assign It is prepared well in advance for the effective plan delivery. • Content delivery Process: There is no "one approach for teaching. The Teaching-Learning process through Chalk Board, Power point presentation, Video I Charts, Animation, etc., and adopting various teachi Lecture, Group Discussion, Seminar, Tutorials, Gue Demonstration etc., • Monitoring TLP: The Teaching-Lea reviewed based on the data recorded in the Log book by Department. Feedback regarding the Teaching - Learn: collected from students by feedback form, During Course Class committee meetings. • Addressing issues related lectures are allocated for courses of difficult natu faculty is invited to give extra knowledge about the added courses are conducted □ Online course is suppor basic latest subjects with good knowledge • Address faculty □ Mentoring and guidance to faculty for a col him/her by senior/competent faculty □ FDP's are conduc • Addressing issues of individual student: □ Remedial learners □ Addressing the student personal issues is various committees like Grievance Redressal Cell, Wome cell, Counselling Healthcare Cell and Anti ragg

Curriculum Development	Our institute adheres to curriculum and syllabi as pro University, Chennai. The syllabi comprises of multif covering theory, practical and project. The revised Curriculum R-2017 has revealed the programme curricul courses. The college organizes Guest Lectures, Semina Visits and various training programme to supplement the institution collects the feedback from stakeholders parents, industry and alumnae for the overall effecti
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#### 6.2.2 - Implementation of e-governance in areas of operations:

E-governance area	Details
Planning and Development	Planning and development activities are fulfilled council as per the requirement of the AICTE from
Finance and Accounts	Finance and accounts section uses Tally and excel various accounting activities. Accounting activit using Tally.
Student Admission and Support	Students admission and their supporting activitie through E-Software and the absentees of the studen through Prezenta software
Examination	The internal marks of the students are submitted t portal and results are published through online portal
Administration	Institutional administrative office is automized a are through Office Management Softwa

#### 6.3 - Faculty Empowerment Strategies

6.3.1 - Teachers provided with financial support to attend conferences / workshops and towards membership 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
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**No Data Entered/Not Applicable !!!**

[View File](#)

6.3.2 - Number of professional development / administrative training programmes organized by the institution 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 and Non-teaching)
2018	Quality Teachers	NA	27/02/2018	27/02/2018	1
2019	NA	MS-Office	20/06/2019	20/06/2019	
2019	NA	TALLY	20/06/2019	20/06/2019	
2019	DS Group Founder Chairman Shri.A.Srinivasan Lecture series	DS Group Founder Chairman Shri.A.Srinivasan Lecture series	27/07/2019	27/07/2019	1

[View File](#)

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

Title of the professional development programme	Number of teachers who attended	From Date
Faculty Enrichment program	152	14/09/2019
Art of learning	146	28/06/2019
Quality Teachers	164	27/10/2019
Guidance and Motivational towards OBE	162	17/09/2019

[View File](#)

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

Teaching		Non-teaching	
Permanent	Full Time	Permanent	Part Time
12	12	2	

6.3.5 - Welfare schemes for

Teaching	Non-teaching	Students
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<ul style="list-style-type: none"> <li>• Medical Reimbursement in case of major accidents.</li> <li>• Educational loan for higher studies.</li> <li>• Free admission for children of employee and concession of fees for them.</li> <li>• The management grants Maternity, Medical and Marriage leave.</li> <li>• On-Duty facility is extended wherever applicable.</li> <li>• Provide seed money for doing research.</li> <li>• Free Medical Aid through Dhanalakshmi Srinivasan Medical College and Hospital</li> </ul>	<ul style="list-style-type: none"> <li>• Medical Reimbursement in case of major accidents.</li> <li>• Educational loan for higher studies.</li> <li>• Free admission for children of employee and concession of fees for them.</li> <li>• The management grants Maternity, Medical and Marriage leave.</li> <li>• On-Duty facility is extended wherever applicable.</li> <li>• Free Medical Aid through Dhanalakshmi Srinivasan Medical College and Hospital.</li> </ul>	<ul style="list-style-type: none"> <li>• Fee waiver so provided to economic students, sports cultural performers in research.</li> <li>• Free offerings no fees who are all clearly conducted by our health centre is a campus which consists Medical Officer, Nurse, Life-saving Ambulance and emergency, First-aid locations.</li> <li>• Battery to help mobility disabled.</li> <li>• Well infrastructure students.</li> <li>• Transport the needy</li> <li>• Psychological counselling</li> <li>• Yearly wellbe</li> </ul>
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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)

• Institute has made the necessary provisions in the books of account for efficient use of available funds for each academic year. The college has formulated financial policy which ensures effective and optimal utilization of finances for academic, administrative and development purposes.

• To every year, the budget is prepared centrally well in advance after careful consideration the requirements of every department coupled with the objectives of the institution.

• The budget is reviewed by the manager after necessary changes. As and when required, the institute makes advance/additional funds.

• The Trustees approves the annual expenditure the balance sheet and provides feedback for further optimal use of resources.

• Financial audits are conducted by a certified auditor every year to verify the compliance with established financial procedures.

##### 6.4.2 - Funds / Grants received from management, non-government bodies, individuals, philanthropists (covered in Criterion III)

Name of the non government funding agencies /individuals	Funds/ Grnats received
NA	0

No file uploaded.

##### 6.4.3 - Total corpus fund generated

No Data Entered/Not Applicable !!!

#### 6.5 - Internal Quality Assurance System



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

Audit Type	External		Yes
	Yes/No	Agency	
Academic	Yes	NBA, Anna University, Senior academician	Y
Administrative	Yes	AUDITOR	Y

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

• Each department organizes parents-teachers meeting periodically an opportunity for parents to discuss the academic performance of their faculty concerned. The departmental activities are presented to the p the start of meeting, audio visual presentations is presented by the l of all the ongoing activities in the department and also at Institute . the parents to analyze about the happenings in the college. Result comparison and internal mark calculation etc. are presented. • On the counselor interaction with the parents also will be arranged. This me platform between parents and the department. • Student performance periodically to the parents through letter, SMS through PREZENTA. • I takes the responsibility of individual student's performance and perio it to parents. • Mentor meeting is conducted for the students by the in to ensure the improvement in academics and co-curricular activities. this meeting is to conduct the SWOT (Strength, Weakness, Threats and analysis of students. • Also Parents' participation in First year inat Alumni Meet, Graduation Day Function and Appointment Letter Distr:

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

• Arrangement of computer training programmes related to Tally and MS- teaching staff and office staffs. • Arranging training programmes fo the knowledge of using latest facilities and equipment • Awareness tai hygiene. • NSS organized Awareness on Fire safety Programme with th safety department. Practical demonstration is done for the technical Both Teaching / Non-teaching are encouraged to continue higher

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

• National symposium was organized by all departments in a day with er Self Help Group is planned to assist the students toward Motivati: Presentation/Writing and Valuation procedures. • Student Care Center to give counseling, Excel the students in their career and to motivate the issues in the society • "DS Group Founder Chairman Shri.A.Srin: series" is organized

6.5.5 - Internal Quality Assurance System Details

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

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
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No Data Entered/Not Applicable !!!

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## 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)

Title of the programme	Period from	Period To	Number of programmes
Women's Empowerment program	08/03/2019	08/03/2019	1

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

Percentage of power requirement of the University met by the renewable energy
<ul style="list-style-type: none"> <li>Different media used such as short films, audio, visual and advertisement competitions, meetings etc. for spreading messages concerning environmental awareness.</li> <li>Students are motivated to give awareness about waste management, global gas and rain water harvesting through short films and clubs.</li> </ul>

#### 7.1.3 - Differently abled (Divyangjan) friendliness

Item facilities	Yes/No	Number of facilities
Physical facilities	Yes	1
Ramp/Rails	Yes	1
Rest Rooms	Yes	1
Special skill development for differently abled students	Yes	1

#### 7.1.4 - Inclusion and Situatedness

Year	Number of initiatives to address locational advantages and disadvantages	Number of initiatives taken to engage with and contribute to local community	Date	Duration	Name of initiative	Issues addressed
2018	1	1	21/12/2018	1	Blood donation camp	Collection of blood for group
2019	1	1	01/06/2019	1	Transport facility for long distance	Facilities arranged

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

Title	Date of publication	Follow up(max 100 words)
DSEC Times	29/11/2018	Magazine will be published at the end of the acad includes institution development, achievements stu curriculum and Co-Curriculum of that acade

#### 7.1.6 - Activities conducted for promotion of universal Values and Ethics

Activity	Duration From	Duration To	Number of p
No Data Entered/Not Applicable !!!			

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

The institution has extensively implemented ecological practices in v conservation and waste management on the campus. • Labelling of tree with their botanical names • Plastic free campus • Solar energy is us to save energy. • Eco club is used to spread awareness about environ and to reduce pollution in the campus. Cleaning Campaign is organized Premises and Hostel Premises. • Tree plantation: □ The institutio environment with several trees to maintain the ecology of the place. the college organizes regular plantation drives and save-the-tr periodically. Infrastructure is well supervised with the help of St committed Horticulturist team maintains the green landscape. • Rainw Wastewater recycling □ Rainwater harvesting is the accumulation ar rainwater for reuse on-site, rather than allowing it to run off. The find out whether the students have an awareness of Rain Harvesting or water from roofs is collected through the well-designed network of pi of pipes helps collect water in underground tanks and specially const pits to recharge the tube wells and aquifers. □ Rain water harvesting water logging problem within the campus. □ Wastewater is recycled and garden. □ A total of around 300 students of various department visi Harvesting plants in our campus. • Drip irrigation: □ Drip irrigation in our institution. It is the most efficient water and nutrient deli growing crops. □ It delivers water and nutrients directly to the plan in the right amounts, at the right time, so each plant gets exactly when it needs it, to grow optimally. This process saves water as well a V-Care: □ This club is initiated to provide awareness about green envi prepare and organize students' participation for preservation and c environment. • It uses different media such as Short films, Advertis Competitions, Meetings etc. for spreading messages concerning env awareness.

## 7.2 - Best Practices

### 7.2.1 - Describe at least two institutional best practices

Practice 1: Value added course □ As per Anna University regulation 20 may contribute their knowledge in Value Added Courses and also they c through the Value Added Courses. □ For that purpose one / two credi offered by a Department with the prior approval from the Head of the Goal: □ To meet the growing demands of corporate and groom into a comp

To develop the skills of students  A value added course can increase quality. For example, offering one year course to support on response. Additionally, individuals can bring advanced skills to a position. • institution initiated following work for applying value added course Academic Courses and the Controller of Examinations from all disciplines department has to identify the course which is not a part of Anna curriculum.  The detailed syllabus should be framed. The duration of courses is 15 (30) periods of theory or a maximum of theory and Lab. The course can have a maximum of three hours per day.  The schedule of the selected value added course is sent to the Centre for Academic Control and Controller of Examinations after approval from the Head of the Institution at least one month before the course is offered.  The following Value Added Courses are offered to improve the Technical knowledge and to create awareness about the trends in their respective fields.

S. No.	Department	Course Name	Number of Students Enrolled
1.	Civil Engineering	Vaasthu and Building Plan 70 Interior Design	MAX 21
2.	Computer Science and Engineering	Case Study: Operating System and Network Design	68
3.	Electronics Communication Engineering	Electronics Making and PCB Design	126
4.	Mechanical Engineering	Modeling for Design	19
5.	Information Technology	Data Mining Laboratory	10
6.	Electrical and Electronics Engineering	Energy Management and Audit	110

Practice 2: Skill Development Program (SDP)

The main objective behind the training program on I-Learn is to get the students to understand the essential skills from start to end and what's in between that, the DSEC students to understand what to focus when managing specially the projects they work on. That is, being successful professional needs to be a balanced focus on all aspects of the project, from its members to the team itself to the task on hand.  To make the student mark of developed nation, have to lead the industrial revolution that to strengthen the quality of our Higher Educational Institution. • Institution organizes Skill Development Programme "I-Learn" @ DSEC on 28.06.2019 for First year, Second year, Third year and Final year name Name I A1 CAMPAIGN (Associate) II C2 CAMPAIGN (C, Clean) III E3 CAMPAIGN (Enhance and Expertise) IV G4 CAMPAIGN (Group, Grow, Gain, Graduate) Year: A1 CAMPAIGN (Associate): The different sections are included English for Engineers Maths Made Easy Serious About Physics' Genius C Engineering Language Life Skills PATS / TAI Initially the students are to complete their registration process. Dr.P.Malathi, M.E.PhD Principal, Srinivasan college of Engineering, Perambalur was invited as the chief guest who inspired the students by her motivational speech.  II Year: C2 CAMPAIGN

It is scheduled as Module Description C Programming Basic programme. The syllabus has to be framed for Programming and lab C Lab Conduct / Conduct of Experiments Students Forum T3 (Train To Talk), Interaction Forum With Students Freeware Presentation regarding the awareness of freeware resources. Presentation about the resources available and the scope for their studies Seminar Art of Learning-Seminar Test Feedback Questionnaire Feedback form, Evaluation to be carried out by the department as per the Guidelines Attendance Attendance to be collected by the department for both FN and AN and the same to be compiled within 1 hour and to be submitted to the Principal and the defaulters to be monitored Cleaning Campaign DSEC All second year students were grouped as  GROUP-A: BME-A, BME-B, CIVIL  GROUP-B: MECH-A, MECH-B, IT, ECE, EEE.  Time table, Course Plan for

was prepared in advance. □ In this activity Students were learned the in theory and practical. Also students had gained knowledge about F Resources availability in the websites. To improve the communication were participated in students Forum. And finally cleaning campaign conducted to provide clean environment. □ III Year: E3 CAMPAIGN (Educ Expertise) It is scheduled as MODULE DESCRIPTION Value Added Course: Specific Nutrition Diet Awareness Program/Presentation/ Competition can Evaluation Monitor the evaluation procedure for IPT Life Assessment Program/Presentation/ Competition can be Planned Letter / Resume Module and the outcome is the draft of resume Higher Studies Presentation higher studies/opportunities at other sectors Fun games To develop the has to be planned Health Hygiene Awareness Program/Presentation/ Competition Planned Seminar Art of Learning-Seminar Test Feedback Question Form, Evaluation to be carried out by the department as per AU 201 Attendance Attendance to be collected by the department faculty members AN and the same to be compiled within 1 hour and to be submitted to P defaulters to be monitored Rainwater Harvesting Energy Management And Campus □ Value Added Course: Emerging trends in technical and professional call for value addition i.e. students must acquire something more provided in the curriculum. □ IPT Evaluation: The main objective of Training is to expose the students to actual working environment and knowledge and skill from what they have learned in the college. Another this program is to instill the good qualities of integrity, responsibility confidence. The participants are evaluated on their performance and knowledge about various aspects of the programme. □ Nutrition Diet counseling about the various health problems and create awareness about the respondents by a team of representatives. And also we create awareness health status of the students in the campus. □ Life Assessment: Life Assessment has ensured that services provided to students facilitate and allow them to be successful. The Assessment Committee for Student division in its commitment to creating and cultivating a culture of academic promoting best practices in the field. □ Higher Studies: Higher education people with an opportunity to reflect on the critical, social, economic moral and spiritual issues facing humanity. It contributes to nation through dissemination of specialized knowledge and skill □ Fun Game playing builds team spirit and pushes us out of our comfort zone conversation. Group game playing also encourages a healthy competitive members. □ Health hygiene: Learn about making good food choices, how healthy diet and lifestyle, and avoiding diet-related illnesses such diabetes and obesity. □ Rainwater harvesting and Energy Management a Rainwater harvesting is the accumulation and storage of rainwater for rather than allowing it to run off. The main scope is to find out whether have an awareness of Rain Harvesting or not. The rain water from roof through the well-designed network of pipes. The network of pipes help in underground tanks and specially constructed recharge pits to recharge wells and aquifers. Rain water harvesting also reduces the water leakage within the campus. A total of around 300 students of various departments Rainwater Harvesting and Energy Management and Maintenance plants in Year: G4 CAMPAIGN (Group, Grow, Gain, Graduate): MODULE DESCRIPTION Department Specific Aptitude Syllabus has to be framed Group discussion Discussion Fun games To develop their skills, games has to be planned

Modules has to be framed IPT evaluation Monitor the evaluation pro  
Letter / Resume Modules to be framed and the outcome is the draft of  
Forum T3 (Train To Talk), Interaction Forum With the help of PG Studen  
Question Formulation, Feedback form, Evaluation to be carried out by 1  
per AU2017 Guidelines Attendance Attendance to be collected by the de  
members in both FN and AN and the same to be compiled within 1 ho  
submitted to Principal and the defaulters to be monitor

Upload details of two best practices successfully implemented by the institution as per NA  
institution website, provide the link

<https://www.dsengg.ac.in/>

### 7.3 - Institutional Distinctiveness

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

• Institution is keen on nurturing its students to develop into in  
professionals and competent entrepreneurs. The definition of employ  
keeps on changing in a world whose technological frontiers are pushin  
day. • The following events are organized to improve the performance :  
Organizing Date 1. Seminar on study abroad 12.07.218 2. Interdiscipli  
MCA 02.08.2018 3. Professional society talk on "skills needed for MB  
MNC's" 11.08.2018 4. MOCKATHON 2018 05.09.2018 5. MOCKATHON 2018 27.09  
6. National Level Technical Symposium - DECIBERTZ'18 07.09.2018 7.  
Technical Symposium-BIOCONCLAVE'18 07.09.2018 8. National Technical  
FEST 2K18 07.09.2018 9. Paradigm shift in HR Indus 08.09.2018 10. Fac  
"Quality Teachers" 27.10.2018 11. Guest Lecture Material science Des  
growth factor delivery system in tissue engineering regenerative medi  
12. Research technology 02.02.2019 13. Skill Development Programme  
28.06.2019 14. Art of learning 28.06.2019

Provide the weblink of the institution

<https://www.dsengg.ac.in/>

### 8.Future Plans of Actions for Next Academic Year

To strengthen and promote the Research and Development related activiti  
autonomous and work to improve the curriculum