

DHANALAKSHMI SRINIVASAN ENGINEERING COLLEGE
(Approved by AICTE & Affiliated to Anna University Chennai,
Accredited with 'A' Grade by NAAC)
THURAIYUR ROAD, PERAMBALUR – 621 212



INTERNAL QUALITY ASSURANCE CELL

ANNUAL QUALITY ASSURANCE REPORT
2015 - 2016

Submitted to

National Assessment and Accreditation Council
Bangalore, India



STD - 04328
220444, 220333

DHANALAKSHMI SRINIVASAN ENGINEERING COLLEGE

(Approved by AICTE, New Delhi
Affiliated to Anna University, Chennai)

PERAMBALUR - 621 212. Tamil Nadu.

bsi.

Date: 20.09.2016

To

The Director
National Assessment and Accreditation Council (NAAC)
P. O. Box No. 1075
Nagarbhavi
Bangalore - 560 072
Karnataka
India.

Sir,


Sub: Submission of Annual Quality Assurance Report for the year 2015-16 to NAAC - Reg.

We are pleased to inform you that we wish to submit Annual Quality Assurance Report (AQR) for the academic year 2015-16 to National Assessment and Accreditation Council (NAAC). We kindly request you to consider our report and please do the needful.

Thanking you,



Yours Sincerely,


20/9/16
PRINCIPAL
Dr. T. ELANGO, M.E., Ph.D.,
Principal
DHANALAKSHMI SRINIVASAN ENGINEERING COLLEGE,
PERAMBALUR - 621 212.

CONTENTS

Item
PART-A
Details of the Institution
IQAC Composition & Activities
PART-B
Criterion I – Curricular Aspects
Criterion II – Teaching, Learning & Evaluation
CRITERION III : Research, Consultancy and Extension
Criterion IV – Infrastructure & Learning Resources
Criterion V – Student Support & Progression
Criterion VI – Governance, Leadership & Management
Criterion VII – Innovations & Best Practice

The Annual Quality Assurance Report (AQAR) of the IQAC 2015-16

Part – A

1. Details of the Institution

1.1	Name of the Institution	: Dhanalakshmi Srinivasan Engineering College
1.2	Address Line 1	: Thuraiyur Road
	Address Line 2	: Perambalur
	City	: Tiruchirappalli
	State	: Tamil Nadu
	Pin Code	: 621 212
	Institution Mail Address	: www.dsengg.ac.in
	Contact No's	: 04328-220444, 220333
	Head of the Institution	: Dr. T.Elango
	Telephone Number	: 04328-220444, 220333 (Ext : 201)
	Mobile Number	: +91 9443457824
	IQAC Coordinator	: K.Karthick Babu
	Mobile Number	: 9787852380

1.3 NAAC Track ID : TNCOGN20781

OR

1.4 NAAC Executive Committee : EC(SC)/05/A&A/128 and March 03, 2015
No. & Date:

1.5 Website address : www.dsengg.ac.in

Web-link of the AQAR : www.dsengg.ac.in/dsengg-academic-cell-internalqual.php

1.6 Accreditation Details

S.No	Cycle	Grade	CGPA	Year of Accreditation	Validity Period
1	1 st Cycle	A	3.05	2015	5 Years

1.7 Date of Establishment of IQAC : 14.03.2014

1.8 Details of the previous year's AQAR submitted to NAAC after the latest Assessment and Accreditation by NAAC (*for example AQAR 2010-11 submitted to NAAC on 12-10-2011*)

NA

1.9 Institutional Status

University State - Central - Deemed - Private -

Affiliated College Yes No -

Constituent College Yes - No -

Autonomous college of UGC Yes - No -

Regulatory Agency approved
Institution Yes No -
(eg. AICTE, BCI, MCI, PCI, NCI)

Type of Institution Co-education Men - Women -

 Urban - Rural Tribal -

Financial Status Grant-in-aid - UGC 2(f) UGC 12B Grant-in-aid + Self Financing - Self-financing

1.10 Type of Faculty/Programme

Arts - Science - Commerce - Law - PEI (Phys Edu) -
TEI (Edu) Engineering Health Science - Management
Others (Specify) -

1.11 Name of the Affiliating University: Anna University, Chennai

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

Autonomy by State/Central Govt./University	No
University with Potential for Excellence	No
UGC-CPE	No
DST Star Scheme	No
UGC-CE	No
UGC-Special Assistance Programme	No
DST-FIST -	No
UGC-Innovative PG programmes	No
UGC-COP Programmes	No
Any other (Specify)	Received 2(f) and 12(B) Status from UGC

2. IQAC Composition and Activities

2.1	No. of Teachers	: 4
2.2	No. of Administrative/Technical staff	: 3
2.3	No. of students	: 2
2.4	No. of Management representatives	: 3
2.5	No. of Alumni	: 2
2.6	No. of any other stakeholder and community representatives	: 2
2.7	No. of Employers/ Industrialists	: 2
2.8	No. of other External Experts	: 1
2.9	Total No. of members	:19
2.10	No. of IQAC meetings held	:10
2.11	No. of meetings with various stakeholders:	
	Faculty	: Monthly once
	Non-Teaching Staff	: Monthly once
	Students	: Monthly once
	Alumni	: Yearly once
	Others	: -
2.12	Has IQAC received any funding from UGC during the year?	

No

2.13 Seminars and Conferences (only quality related)

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

Total No's	:	6
International	:	0
National	:	0
State	:	0
Institutional Level	:	6

(ii) Themes

2.14 Significant Activities and contributions made by IQAC

Internal Quality Assurance Cell (IQAC) has been formed to improve the Quality of staff members in their teaching and technical knowledge in accordance with the changing scenario and industrial needs of engineering students.

The list of Activities and contributions made by IQAC are:

- Preparing Annual Quality Assurance Report
- Developing quality benchmarks for the various academic and administrative activities.
- Introducing innovative methods of Teaching, learning and evaluation
- Conducted Remedial classes
- Preparation of the good feedback forms for students and faculty; so that the teaching-learning methods can be judged.
- Analysis of the feedback and advice teachers for improvement, if necessary.
- Conduction of seminar, interaction with academicians and people from industry to get first hand information on the scientific trend and market needs to boost the teaching quality.
- Monitoring the academic performance of the faculty and students.

- Preparation of Question paper Matrix analysis with respect to university Question Paper
- Arranging visiting faculty in thrust areas
- Periodical discussion with Principal and HODs for further improvement.

2.15 Plan of Action by IQAC/Outcome

Plan of Action	Achievements
To organize at least one workshop/seminar/conference by each department.	Almost all the departments organized workshop/seminar/conference.
To strengthen Remedial classes for slow learners	Remedial classes are being conducted
To start a few more useful value added courses	Two new value added courses are started
Faculty Development Programme for teaching staff	Increase in engagement levels of teachers
Constant up-gradation of technical and communication skills for non-teaching staff	Office staff are trained to use computers of all work of admissions and examinations
To encourage enrolment of more M.Tech. Faculty member for Ph.D. degree	Five faculty members have registered Ph.D in their Research area.

2.16 Whether the AQAR was placed in statutory body: Yes No

Management

Syndicate

Any Other Body Specify

Provide the details of the action taken

Part – B
Criterion – I

1. Curricular Aspects

1.1 Details about Academic Programmes

Level of the Program	Number of Existing Programmes	Number of Programmes added during the year	Number of Self-financing Programmes	Number of value added/ career oriented programmes
Ph.D.	-	-	-	-
P.G.	8	-	8	-
U.G.	8	-	8	6
P.G. Diploma	-	-	-	-
Advanced Diploma	-	-	-	-
Diploma	-	-	-	-
Certificate	2	-	-	4
Others	-	-	-	-
Total	18	-	18	10

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

(ii) Pattern of programmes:

Pattern	Number of programmes
Semester	18
Trimester	-
Annual	-

1.3 Feedback from stakeholders *(On all aspects)*

Alumni Parents Employers Students

Mode of feedback : Online Manual

Co-operating schools (for PEI)

Provide the analysis enclosed in Annexure -I

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

Yes, The Department of Biomedical Engineering suggested the board of Studies to include the Subject, Medical Imaging Technique as a core paper with more analytical emphasis though it is an elective in R-2004.

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

No

Criterion – II

2. Teaching, Learning and Evaluation

2.1 Total No. of permanent faculty

Total	Asst. Professors	Associate Professors	Professors	Others
332	220	70	33	8

2.2 No. of permanent faculty with Ph.D.

27

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

Asst. Professors		Associate Professors		Professors		Others		Total	
R	V	R	V	R	V	R	V	R	V
31	2	3	0	2	0	3	0	39	2

2.4 No. of Guest and Visiting faculty and Temporary faculty

34

38

2

2.5 Faculty participation in conferences and symposia:

No. of Faculty	International level	National level	State level
Attended Seminars/ Workshops	4	22	26
Presented papers	99	25	4
Resource Persons	0	4	6

2.6 Innovative processes adopted by the institution in Teaching and Learning

1. Curriculum and syllabus updation based on Outcome Based Education.
2. Use of ICT and e-learning resources.
3. For advance learners, the institution encourages them to take part in research projects and presentation of papers at various levels
4. Presentation and Interactive sessions of students, Guest Lectures, Soft skill training programs.
5. Establishing the session plan for every subject well before the commencement of each semester along with the course hand outs which are made available to all students on the start of the academic year
6. Teacher's study materials [soft copy-power point/PDF presentation] are shared with students
7. Teaching faculty and students are encouraged to use latest technology such as LCD, internet, etc., in the teaching learning process.
8. Creation of learning environment in classes which induces critical thinking, creativity and scientific temper.
9. Recognition to innovative and creative contributions of faculty and students.
10. Sharing the experiences of experts in the form of guest lecture and practical demonstrations.
11. Field trips and Industrial tours
12. Lecture by experts in the respective fields.

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

180

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

- i. Slip Test has been initiated for each subject
- ii. All Continuous Internal Assessment Tests have been conducted as per University Question Pattern.
- iii. Different methods of assessing the student – tests, seminars, Assignments, projects etc.

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

02	-	-
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2.10 Average percentage of attendance of students

88.08

2.11 Course/Programme wise distribution of pass percentage

Title of the Programme	Total no. of students appeared	Division				
		Distinction %	I %	II %	III %	Pass %
B.E Bio-Medical Engineering	82	1.21	50	15.85	NIL	67.07
B.E Civil Engineering	405	0.74	9.88	37.53	51.85	35.55
B.E Computer Science And Engineering	217	0	22.12	34.1	0	56.22
B.E Electronics And Communication Engineering	142	0	108	14	0	85.92
B.E Electrical And Electronics Engineering	144	-	40.27	13.88	-	54.16
B.E Mechanical Engineering	63	0	69.8	0.015	-	71.4
B.Tech Information Technology	137	0	50.36	22.63	0	72.99
M.E Computer Science And Engineering	42	21.43	76.19	0	-	97.61
M.E. -Power Electronics And Drives	14	21.42	78.57	-	-	100
M.E – Embedded System Technologies	16	12.5	87.5	-	-	100
M.E (Computer Science And Engineering) -Networks	7	0	85.71	-	-	85.71
M.E CAD/ CAM						
Master Of Business Administration	113	-	5.03	23.89	15.92	46.01
Master Of Computer Applications	105	12.3	86.6	0	0	99.04

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

1. Attainment of course outcomes and mapping of course outcomes with program outcomes are evaluated by the IQAC.
2. The IQAC regularly conducts meeting with students and obtains feedback on teacher quality and teaching methods which provides input and suggestions for improvement.
3. Evaluation of Teaching and learning process is also done through oral, written exams, presentations and projects of the students.
4. Regular meetings with the management, the principal, head of the departments and faculty members.
5. The IQAC monitors the progress of the teaching-learning process by collecting feedback from students and teachers. These feedbacks are analyzed and remedial measures are suggested for improvement. It also looks into updating of teaching aids and teaching techniques

2.13 Initiatives undertaken towards faculty development

Faculty / Staff Development Programmes	Number of faculty benefitted
Refresher courses	60
UGC – Faculty Improvement Programme	1
HRD programmes	98
Orientation programmes	75
Faculty exchange programme	36
Staff training conducted by the university	3
Staff training conducted by other institutions	37
Summer / Winter schools, Workshops, etc.	40
Others	10

2.14 Details of Administrative and Technical staff

Category	Number of Permanent Employees	Number of Vacant Positions	Number of permanent positions filled during the Year	Number of positions filled temporarily
Administrative Staff	7	-	-	-
Technical Staff	47	0	1	-

Criterion – III

3. Research, Consultancy and Extension

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

1. Faculties are encouraged by providing incentives for research papers publications in Journals.
2. Addressing various research schemes through Research and Development Section
3. Persuading to make provision of seed funding to activities like conferences, seminars, Workshops, FDP, etc
4. Financial Assistance to faculty for presenting technical papers in National/International Conferences / Seminars
5. The institution has new acquired 12B certification. The faculty members are encouraged to apply for minor/ major funded projects from UGC/ AICTE.
6. IQAC promotes faculty members to registers Ph.D . Sabbatical leaves are sanctioned for course work, conferences and seminars.
7. IQAC plays a key role in organizing guest lectures by eminent scientists, prominent academicians and entrepreneurs in different fields.
8. To facilitate improvement in research quality
9. Encouragement to faculty members to apply for minor research projects.

3.2 Details regarding major Projects

	Completed	Ongoing	Sanctioned	Submitted
Number	0	2	0	1
Outlay in Rs. Lakhs	0	1.52	0	0.75

3.3 Details regarding minor projects

	Completed	Ongoing	Sanctioned	Submitted
Number	0	5	0	1
Outlay in Rs. Lakhs	0	2.24	0	0.45

3.4 Details on research publications

	International	National	Others
Peer Review Journals	30	8	0
Non-Peer Review Journals	140	5	0
e-Journals	1	0	0
Conference proceedings	41	17	0

3.5 Details on Impact factor of publications:

Range Average h-index Nos. in SCOPUS

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

Nature of the Project	Duration Year	Name of the funding Agency	Total grant sanctioned	Received
Major projects	1	Dhanalakshmi Srinivasan Medical College and Hospital	72000	25000
Minor Projects	0.6	MI Instruments	69000	20000
	2	Dhanalakshmi Srinivasan Engineering College	30000	30000
Interdisciplinary Projects				
Industry sponsored				
Projects sponsored by the University/ College				
Students research projects (<i>other than compulsory by the University</i>)				
Any other(Specify)				
Total	3.6	3	171000	75000

3.7 No. of books published i) With ISBN No. Chapters in Edited Books

ii) Without ISBN No.

3.8 No. of University Departments receiving funds from

N/A

3.9 For colleges Autonomy CPE DBT Star Scheme
INSPIRE CE Any Other (specify)

3.10 Revenue generated through consultancy

3.11 No. of conferences Organized by the Institution

Level	International	National	State	University	College
Number	0	8	1	0	0
Sponsoring agencies		3			

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

3.13 No. of collaborations International National Any other

3.14 No. of linkages created during this year

3.15 Total budget for research for current year in lakhs :

From Funding agency From Management of University/College

Total

3.16 No. of patents received this year

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

3.17 No. of research awards/ recognitions received by faculty and research fellows of the institute in the year

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

3.18 No. of faculty from the Institution
 who are Ph. D. Guides
 and students registered under them

3.19 No. of Ph.D. awarded by faculty from the Institution

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

JRF SRF Project Fellows Any other

3.21 No. of students Participated in NSS events:

University level State level
 National level International level

3.22 No. of students participated in NCC events:

University level State level
 National level International level

3.23 No. of Awards won in NSS:

University level	<input type="text" value="1"/>	State level	<input type="text" value="--"/>
National level	<input type="text" value="--"/>	International level	<input type="text" value="--"/>

3.24 No. of Awards won in NCC:

University level	<input type="text" value="6"/>	State level	<input type="text" value="--"/>
National level	<input type="text" value="--"/>	International level	<input type="text" value="--"/>

3.25 No. of Extension activities organized

University forum	<input type="text"/>	College forum	<input type="text" value="24"/>		
NCC	<input type="text" value="6"/>	NSS	<input type="text" value="4"/>	Any other	<input type="text" value="2"/>

3.26 Major Activities during the year in the sphere of extension activities and Institutional Social Responsibility

- Computer awareness programmes organized in rural area students.
- Fire and Safety awareness program.
- National Voter's Day conducted by NCC students of the college.
- Computer Training Programme for Police & Revenue officials.
- Summer Course for Govt. High School Students near to Perambalur.
- Energy auditing and management.
- Safety precautions against electrical hazards.
- Global warming.
- Energy conservation and utilization.
- Importance of Renewable energy sources.
- NSS Camp for cleaning program at nearby villages

Criterion – IV

4. Infrastructure and Learning Resources

4.1 Details of increase in infrastructure facilities

Facilities	Existing	Newly created	Source of Fund	Total
Campus area	1011713.25m ²	0	0	1011713.25
Class rooms	90	0	0	90
Laboratories	26	0	0	26
Seminar Halls	2	0	0	2
No. of important equipments purchased (\geq 1-0 lakh) during the current year.	7	0	0	7
Value of the equipment purchased during the year (Rs. in Lakhs)	0	16	Dhanalakshmi Srinivasan Engineering College	16
Others	-	-		

4.2 Computerization of administration and library

1. The institution has a large and constantly growing collection of online resources such as NPTEL, e-journals, e-books, and so on. These resources are accessible anywhere within the campus at any time.
2. Use of OPAC software in library.
3. Use of computers and data storage in all administration & library sections.
4. Use of ERP system for student attendance and assessment marks entry.
5. Use of Tally software for account maintenance.
6. Library materials and services are automated with commercial software package called NIRMALS. All the transactions are fully computerized. The bar-coded ID and the scanner are used for charging and discharging the books.
7. Administrative Section is equipped with Computers and internet facility with Wi-Fi connection

4.3 Library services:

	Existing		Newly added		Total	
	No.	Value	No.	Value	No.	Value
Text Books	36172	3788612	590	233134	36762	4021746
Reference Books	1890	1134556	1212	11838	3102	1146394
e-Books	500	Free	103	Free	603	Free
Journals	315	513860	81	162000	396	674860
e-Journals	3500	232500	4240	110000	7740	342500
Digital Database	1	62500	1	11500	2	74000
CD & Video	2000	200000	829	82900	2829	282900
Others (specify)	5	25000	1	10000	6	35000

4.4 Technology up gradation (overall)

	Total Computers	Computer Labs	Internet	Browsing Centres	Computer Centres	Office	Departments	Others
Existing	635	9	128	1	0	0	12	0
Added	0	0	0	0	0	0	0	1
Total	635	9	448	1	0	0	12	1

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

1. The campus is Wi-fi. 24x7 Internet in all Departments, Hostels and centralized computer laboratories.
2. The Computer with internet access is available to all the faculty members and even to non-teaching staff members (both office and departments)
3. The Classrooms, seminar halls, conference halls, Auditoriums are equipped with LCD Projectors with all accessories
4. The entire office works are executed using computers
5. National Level Seminar (first year students)
6. Workshop for Outcome Based Education was attended by our faculty members.

4.6 Amount spent on maintenance in lakhs :

i) ICT	1 Lakh
ii) Campus Infrastructure and facilities	5 Lakhs
iii) Equipments	8 Lakhs
iv) Others	2 Lakhs
Total :	16 Lakhs

Criterion – V

5. Student Support and Progression

5.1 Contribution of IQAC in enhancing awareness about Student Support Services

IQAC provides information regarding various scholarship available and directs, encourage students to avail them. IQAC enhance the awareness about Student Support Services by students" orientation programme is conducted at the beginning of every academic session where newly admitted students are made aware about the various Student Support Services available in the college.

- Financial aid is available to students and is disbursed on time
- The institution has a well-equipped health centre which works 24X7.
- Coaching classes are conducted and study materials are provided for taking up competitive exams.
- Special coaching classes are conducted for developing aptitude skills, general knowledge, current affairs, communication skills, logical reasoning, verbal and non-verbal reasoning and quantitative analysis.
- Remedial courses are conducted for slow learners
- The campus Wi-Fi enabled for the easy use of internet by the students and faculty.
- Training & placement assistance through alumni.
- Placement brochure at Training & Placement cell.
- The institute has separate computer centre with internet browsing facility looked after by system administrator.
- Provision of Hi-tech Gym.
- Grievance redressal committee.
- Arrangement of Industrial Visit to enhance practical knowledge.

5.2 Efforts made by the institution for tracking the progression

1. Feedbacks are obtained from the students, faculty, parents and alumni of the institution.
2. Students progression are tracked regularly by discussing in the meeting of HOD's Class Co-coordinators and the staff.
3. Result Analysis enables easy understanding of the performance level
4. Class committee meetings are conducted.
5. Making parents meet and informing them on the progress of their children.

6. Periodic review by faculty members, HoDs, Principal and IQAC
7. Periodic review of educational institutions in the city for tracking comparative progress
8. A mentor is allocated for a batch of 20 students in each programme to monitor and counsel the students' progress in academic as well as extra-curricular activities
9. The Parents can meet the Class Advisors, Subject Teachers, HOD on any working day for an update on the progress of their wards

5.3 (a) Total Number of students

UG	PG	Ph. D.	Others
2426	318	0	0

(b) No. of students outside the state

350

(c) No. of international students

-

No	%
-	

Men

No	%
-	

Women

Last Year						This Year					
General	SC	ST	OBC	Physically Challenged	Total	General	SC	ST	OBC	Physically Challenged	Total
380	548	21	2545	2	3496	314	412	8	1679	1	2414

Demand ratio 29.1

Dropout % 1.05

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

1. Online aptitude Test
2. Technical aptitude test
3. Technical Seminar
4. Group Discussion
5. Aptitude classes for placement
6. Conferences
7. Special Training Program on new Technology
8. Gate coaching classes
9. Career Development program

No. of students beneficiaries

148

5.5 No. of students qualified in these examinations

NET	<input type="text" value="--"/>	SET/SLET	<input type="text" value="--"/>	GATE	<input type="text" value="20"/>	CAT	<input type="text" value="2"/>
IAS/IPS etc	<input type="text" value="--"/>	State PSC	<input type="text" value="--"/>	UPSC	<input type="text" value="--"/>	Others	<input type="text" value="46"/>

5.6 Details of student counselling and career guidance

The HRDC has been established to contribute directly to the growth of the student. Right from its inception, it is continuously focused on the uplift of human resource.

1. Career guidance programmes are held in preparing students for the world of work by equipping them with the skills to remain relevant in the global economy.
2. Counseling is done by each and every faculty member of the institute. In addition to faculty members, administrators of the institute also help students to accomplish mental health, wellness, mental growth, education career goals, social culture, appraisal, research, making good lifestyle, professional orientation for a rewarding career path.
3. Mentoring - For every individual faculty 20 students are allotted for mentoring in all activities. Two meetings are conducted by the principal every semester to assess the mentoring activity.
4. Academic advice- If students face any academic problems, academic advice is provided by the respective mentors.
5. A faculty member as counselor always advice on the overall attitude of students towards academic performance and personality development. This will obviously help during their campus placement and working environment in the real world situation. Special emphasis is given by the placement cell in providing interactive session, group discussions, personality development, etc., for overall improvement.
6. Student grievances are also addressed by the grievance cell.
7. Organized yoga programmes to improve the self confidence of students
8. Organized National level Seminars and Conferences for students to do the Research

No. of students benefitted

5.7 Details of campus placement

<i>On campus</i>			<i>Off Campus</i>
Number of Organizations Visited	Number of Students Participated	Number of Students Placed	Number of Students Placed
224	575	322	57

5.8 Details of gender sensitization programmes

The college has a separate women's cell which regularly conducts various programs for the wellbeing of the women students. An Awareness on women personal Hygiene organized by the women's cell on 28.07.15. Orientation program and Health Awareness Program were conducted for girls students through women cell.

5.9 Students Activities

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

State/ University level National level International level

No. of students participated in cultural events

State/ University level National level International level

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

Sports : State/ University level National level International level

Cultural: State/ University level National level International level

5.10 Scholarships and Financial Support

	Number of students	Amount
Financial support from institution	137	9,37,350
Financial support from government	1511	3,41,30,550
Financial support from other sources	-	-
Number of students who received International/ National recognitions	-	-

5.11 Student organised / initiatives

Fairs : State/ University level National level International level

Exhibition: State/ University level National level International level

5.12 No. of social initiatives undertaken by the students

5.13 Major grievances of students (if any) redressed: No

System in the college is transparent, hence No major grievances, but certain facilities are enhanced on the basis of the feedback received from the students.

Feedback on facilities	Action Taken
TV and Music system in dining hall	TV and Music system are installed
Widening the range of Wi-Fi network	Additional access point is installed and bandwidth is increased for Wi-Fi

Criterion – VI

6. Governance, Leadership and Management

6.1 State the Vision and Mission of the institution

VISION

To be a World class nodal centre committed to enhance advanced Learning, research and training to serve the nation, meeting the national /international standards.

MISSION

To be a premier Engineering College, much sought after by the industries and society by offering professional education and training blended with ethical values to convert student resources into strong assets of our nation.

6.2 Does the Institution has a management Information System

Yes. The institution has a management information system

The College ensures a systematic information flow for decision making processes which are systematized and channeled through a full-fledged Management Information System. This is achieved by computerization of academic, administrative and library section for instant access and retrieval of information.

The administrative section is automated with College Administration Software which maintains all information on student admission, fee payments, etc.

The College library is also automated with Library Management Software and the information regarding availability of books, issue details, etc.

The finance section is automated with Payroll system which maintains the details of the staff salary.

Examination section also maintains all information pertaining to examination on computer

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

6.3.1 Curriculum Development

The institute is affiliated under Anna University Chennai, so there is no scope of change in curriculum as curriculum to be followed is prescribed by affiliating university. However we collect the feedback on Curriculum from academic peers and get the inputs from faculty, students, alumni and industry representatives. Based on the suggestions of the experts, The college sent a letter of intimation, regarding the additional course contents for identified curricular gap, to boards of studies of the affiliating University for consideration and inclusion in the curriculum during its next revision.

6.3.2 Teaching and Learning

IQAC continuously strive to evolve innovative teaching methodologies. Some of the innovative teaching methodologies adopted are:

- The teachers utilize ICT facilities to illustrate the concept clearly through audio/video mode.
- The teachers circulate lecture notes, question banks with answers and other relevant materials.
- Teaching through projects.
- Microteaching.
- Group discussions.
- Interactive teaching.
- NPTEL – National Programme on Technology Enhanced Learning
- Formation of different groups among the students and encouraging peer learning which helps the slow learners.
- The students are given many tasks such as group assignments, thought provoking problems and mini projects. These activities help the students to learn on their own
- Multimedia teaching – an interactive teaching and learning process
 - a. Makes a particular concept clear.
 - b. Students develop interest to know exactly the concept.
 - c. Creates long lasting memory/correlation of a concept.

In addition to making full use of audio-visual aids, teachers constantly revise their teaching methods based on student feedback, their discussion with other teachers (comparing notes), and successful methods identified within the college and elsewhere, and new methods updated on the Internet and in journals

6.3.3 Examination and Evaluation

The College has several mechanisms in place to ensure that all stakeholders - students, parents, faculty members, administrative staff and the Management - are aware of the evaluation processes. The Evaluation processes consist of Continuous Assessment and End Semester Examinations

The college follows the semester system, with provisions for continuous internal assessment (CIA) for 20% of total marks in each course. The CIA component includes tests (3 tests) and attendance. There is a provision for revaluation of CIA based on any grievance of the student. There is single valuation in UG and PG programmes, and with a provision for retotalling / revaluation and students can get a photocopy of the valued answer scripts. Thus, there is an absolute transparency, which greatly adds to the credibility of the examination system, bridge courses, enrichment courses, remedial teaching, counseling, etc for weak students, and advanced coaching especially involving e-based methods is given to academically stronger students. On the limitation side, the college does not have the power to design its own

For the End semester examinations, Anna University Representative (AUR) from other college is being appointed by the Anna University and half of the invigilators have to be appointed from the various nearby colleges. Valuation of answer scripts is being done through inter-zone central valuation by the Anna University, Chennai.

6.3.4 Research and Development

The research and development cell promotes a Research culture. Facilitation and promotion of the development of strategic direction of research within the Faculty, improvements in the quality and impact of that research, and the growth of local, national and international research collaborations.

The Departments of Mechanical, ECE and CSE are recognized by the University as research centres in our college through this five of our faculty members were registered.

Faculty has utilized Sabbatical Leave for research activities. This kind of provision aids them for an active involvement in their research activities which in turn improve the research forum in the institution.

6.3.5 Library, ICT and physical infrastructure / instrumentation

The significant initiatives are taken

- Procurement of journals including e-journals.
- Purchase of books and journals relevant to research activities.
- Book bank scheme.
- DELNET (Developing Library Network).
- Full automation of the library.
- Inter-institutional library loans.
- Bibliography service to researchers.

OPAC: OPAC (Online Public Access Catalogue) is provided to the users through NIRMALS library software.

Electronic Resource Management package for e-journals:

The library has online, e-journals access through DELNET services.

Federated searching tools to search articles in multiple databases:

Yes; the library has a large and constantly growing collection of online resources such as NPTEL, e-journals, e-books, and so on. These e-resources are accessible anywhere in the campus at any time. We are using campus wide unlimited access.

Library Website: www.dsengg.ac.in/facilities/library.

In-house / remote access to E-publications:

Yes; the library is using campus wide unlimited access through intranet.

Library Automation:

Library materials and services are automated with commercial software package called NIRMALS. All the transactions are fully computerized. The bar-coded ID and the scanner are used for charging and discharging the books.

Infrastructure

- Total area of the library : 1800 sq. m.
- Total Number of seating capacity : 220 nos.
- Fully centralized AC and Wi-Fi access are available
- Working hours (on working days, on holidays, before examination days, during examination days, during vacation).
 - On working days: 08.00 A.M. – 07.00 P.M.
 - On holidays: 08.30 A.M. – 04.00 P.M.
 - Before examination days: 08.00 A.M. – 08.00 P.M.
 - During examination days: 08.00 A.M. – 08.00 P.M.
 - During vacation: 08.30 A.M. - 05.30 P.M.

6.3.6 Human Resource Management

1. Our Institution has a HRD cell which liaises with prospective employers to recruit the qualified students on the basis of their performance in the campus interviews.
2. Encourage strong Faculty and Staff development Plan so as to train them strongly in domain knowledge and pedagogical aspects.
3. Incentives are given to the Faculties for their contribution in research.
4. Effective appraisal system has been followed to assess the performance of faculties.

6.3.7 Faculty and Staff recruitment

1. The requirement of faculty is given by the HODs to the Principal well in advance. The HR consolidates all the requirements and sends an open advertisement in the dailies. Then, the received applications in response to the advertisement are shortlisted and recruited through staff selection committee.
2. Recruitment of faculty and staff are based on the guidelines provided by Anna University and AICTE, New Delhi.

6.3.8 Industry Interaction / Collaboration

Industry interaction is necessary to understand the current trends in industries. Our institute got accreditation with TCS and Shri Ram valued Limited. MOUs are signed with other industries to get our students trained through in-plant training and eventual placement. Improving industry interactions by conducting special lectures and seminars presided by industry people.

The industry interaction made by the following,

- Industrial Visits
- In-plant Training
- Guest Lectures by professionals from industry
- Institute - Industry Interface Cell
- Entrepreneurship Development Cell
- Professional bodies like CSI, ISTE, ICTACT, etc.

6.3.9 Admission of Students

Student admission is based on the single window system of the government of Tamilnadu (for government quota) and the consortium of self-financing colleges (for management quota). Admission to PG programmes is done through Tamilnadu common entrance test (TANCET).

6.4 Welfare schemes for

Faculty	<p>A college can be a creative place, only if the employees are satisfied. The management has offered several welfare schemes for teaching and nonteaching faculty. The management provides a good working environment for the employees by way of providing good infrastructure, internet facilities, canteen, transport facilities etc.</p> <ul style="list-style-type: none">• Every day free refreshments are provided.• Provision for Provident fund.• Free Medical Aid through Dhanalakshmi Srinivasan Medical College and Hospital.• Hostel facilities are provided 'single' faculty.• On-Duty facility is extended wherever applicable.• Fees concessions are provided for the faculty's ward.• Memberships in associations are encouraged.• ATM facilities are provided in the campus.• Maternity, Medical and Marriage leave is provided to the faculty.
Students	<ul style="list-style-type: none">• Details about the scholarships are intimated to the students through regular circulars.• Fee waiver scheme has been provided to economically weaker students, sports persons, best cultural performers and achievers in research.• The Institute provides financial aid for deserving students on merit cum- means basis in the form of tuition fee waivers.• The institute has a book-bank in the library for the benefit of SC/ST and economically weaker students.• The college provides prizes for the toppers and students with 100% attendance in each and every semester.

6.5 Total corpus fund generated

6.6 Whether annual financial audit has been done Yes No

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

Audit Type	External		Internal	
	Yes/No	Agency	Yes/No	Authority
Academic	Yes	ISO	Yes	Principal
Administrative	Yes	Dhanalakshmi Srinivasan Charitable and Educational Trust	Yes	CAO

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

For UG Programmes Yes No

For PG Programmes Yes No

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

The College has followed the following major evaluation reforms as per the instruction given by Anna University, Chennai.

- Introduction of uploading of continuous internal assessment of test marks in the university web portal.
- Introduction of multilevel evaluation of answer scripts for university examinations.
- Provision for recounting, re-evaluation and photo copy of answer sheets on the request of the student.
- External examiners from different colleges are being deputed by the affiliating university for each laboratory university examination.
- For theory examinations, Anna University Representative (AUR) from other college is being appointed by the Anna University and half of the invigilators have to be appointed from the various nearby colleges. Valuation of answer scripts is being done through inter-zone central valuation by the Anna University, Chennai.

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

We offer Seven UG and Eight PG programmes. Five of our UG programmes have been permanently affiliated. Two other UG programmes are also eligible for permanent affiliation. One of our PG programme MBA is permanently affiliated. We have also applied for three programmes to be accredited by NBA.

6.11 Activities and support from the Alumni Association

The institution has a registered Alumni Association. Every year the institute organizes alumni meet. The activities and contributions of the Alumni Association are,

- Bridging the gap between institute and industry, motivating the juniors, giving special lectures, career planning and placement assistance
- Assisting student groups in organizing symposia, conferences, and other special events.
- Providing an avenue for feedback to the administration and contributing to the infrastructural facility of the college

6.12 Activities and support from the Parent – Teacher Association

- Parent – Teacher Association meeting is conducted twice in a year. Suggestions are received from the parents for the improvement of the institution.
- Parent-Teachers meeting are regularly conducted to know about academic performance of their wards and to provide suggestions to improve the overall performance.

6.13 Development programmes for support staff

- The Institution is making its efforts for the professional development of the non-teaching staff through encouraging the staff to attend academic activities like workshops, conferences, and seminars.
- The Institution also provides registration fees, TA/DA and On-Duty leave for these events.
- The Institution has conducted several faculty development programmes to improve the personality development, skill upgradation, software testing workshops, Training on business application in software, effective communication skills etc.,
- The facilities for the technical staff members to upgrade themselves and also pursue higher studies.

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

The college takes great interest in maintaining the campus highly eco-friendly and energy conservative. Environment perception club is actively participating in taking survey process once in a year for auditing campus facilities and environment consciousness like analyzing carbon sequestering, green-treating the waste water, planting green trees and maintaining green environment. The Institution spends an ample amount for conservation of meadows and for planting of trees in the campus.

The initiatives taken by the college to make the campus eco-friendly

- Energy Conservation
- Renewable Energy
- Water Harvesting
- Check Dam Construction
- Efforts for Carbon Neutrality
- Plantation
- Hazardous Waste Management
- e-waste Management

Criterion – VII

7. Innovations and Best Practices

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

- Our college is aware that Teaching-Learning process is crucial part of outcome based education and implements/employs as the set of activities engaging with students to enable them to acquire the knowledge, skills and attitudes
- Faculties are insisted to identify the best content delivery methods to attain Programme outcomes through course outcomes
- The college ensures that assessment methods are well coordinated with course outcomes and teaching methods to support students' effective learning. As the knowledge levels and action verbs of revised Bloom's taxonomy are used to formulate course outcomes, internal semester question papers are also set using action verbs of revised Bloom's taxonomy
- Faculties are requested to identify the best assessment tools to evaluate the performance of students in attaining Course outcomes
- The Research committee proposes an "Innovative Project Award" which is given to the students of every program for the best project. These in turn encourage and motivate students to explore many thought provoking ideas/problems.
- Memorandum of Understandings are signed between college and various Industries like MI Measuring Instruments, MTAB India Pvt. Ltd Etc., Students' knowhow become more industry relevant by interacting with industry persons during Guest lectures, Seminars and workshops
- Industrial visits are arranged to the students. These visits build a strong practical knowledge in students to provide solutions for production problems.

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

ACTION PLAN	ACTION TAKEN
Research and Development cell are encouraged the Faculty members to do their research work	The Departments of Mechanical, ECE and CSE are recognized by the University as research centres in our college through this centre five of our faculty members were registered their Ph.Ds
Planning to provide seed money to the faculty for their research activity.	60% of research expenses will be provided by the institution to the faculty
Publication in Journals are to be improved	<ul style="list-style-type: none"> • Incentives for publications • Providing financial support and special leaves for attending workshops /Conferences and Training programmes
To continue Value added classes to help students to inculcate moral values.	Value added classes are conducted for all the classes
To strengthen Remedial classes for slow learners.	Remedial classes are effectively conducted. to the slow learners

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

<p>Best Practice: 1 Title: Outcome based education</p> <ul style="list-style-type: none"> • Practicing a student-centered learning model. Faculty are meant to guide and help the students understand the material in any way necessary, study guides, and group work are some of the methods instructors can use to facilitate students learning. • The college ensures that assessment methods are well coordinated with course outcomes and teaching methods to support students' effective learning. As the knowledge levels and action verbs of revised Bloom's taxonomy are used to formulate course outcomes, internal semester question papers are also set using action verbs of revised Bloom's taxonomy. <p>Evidence of Success:</p> <p>The adoption of participatory approach in learning, whereby the students involve themselves in identifying a problem, analyzing the causes and finding the solution objectively will have a positive impact on the students and will make the learning process more meaningful and interesting.</p>
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Best Practice: 2

Title: Environment perception club

The college takes great interest in maintaining the campus highly eco-friendly and energy conservative. Environment perception club is actively participating in taking survey process once in a year for auditing campus facilities and environment consciousness like analyzing carbon sequestering, green-treating the waste water, planting green trees and maintaining green environment. The Institution spends an ample amount for conservation of meadows and for planting of trees in the campus.

7.4 Contribution to environmental awareness / protection

- Placards conveying the importance of the energy conservation are made visible all over the college campus to create awareness among the staff and students on energy conservation.
- College vehicles are subjected to carbon emission test regularly. Moreover the campus allows only restricted entry of motored vehicles inside the campus with well planned parking facility.
- NSS camps organize tree plantation in and around campus during annual 'Vanamahotsav Day'.
- E-waste like computers, printers and laboratory waste are properly disposed through approved agency as suggested by pollution control board.

7.5 Whether environmental audit was conducted? Yes No

7.6 Any other relevant information the institution wishes to add. (for example SWOT Analysis)

Strength

- Very supportive Management
- Committed Faculties For teaching and learning process

Weakness

- Since majority of the students are from rural areas it is a challenging task for us to make them excel in their career.

Opportunities

- Different Summer Training Programmes and short term courses are organized.
- Faculties are provided to Attend National and International seminar and conferences.

Threats

- Being a self-financing institution it is difficult to get funding from funding agencies. However, the Institution is striving hard to receive the funds.
- Satisfying the expectations of core companies.

8. Plans of institution for next year

- Motivate faculty members to pursue Ph.D and students to get involved in research.
- Planning to organize international conference to strengthen the global network.
- Try to get more funds for research.
- Addition of a swimming pool to the existing facilities.

Name Mr.K.Karthick Babu

K.Karthick Babu
Signature of the Coordinator, IQAC

Asst/Prof & IQAC Co-ordinator
Dhanalakshmi Srinivasan Engineering College,
Perambalur.

Name Dr.T.Elango

Dr.T.Elango 19/9/16.
Signature of the Chairperson, IQAC

Principal
Dhanalakshmi Srinivasan Engineering College,
Perambalur.

Dr. T. ELANGO, M.E., Ph.D.,
Principal
DHANALAKSHMI SRINIVASAN ENGINEERING COLLEGE,
PERAMBALUR - 621 212.



ANNEXURE I

FEEDBACK FORM



DHANALAKSHMI SRINIVASAN ENGINEERING COLLEGE PERAMBALUR
PARENT FEEDBACK

bsi.

Make a tick mark in the appropriate cell:

S.No	Particulars	Excellent (4)	Good (3)	Satisfactory (2)	Average (1)	Poor (0)
1.	Atmosphere and environment for learning		✓			
2.	Change in the behavior/attitude of my ward after joining the college		✓			
3.	Attendance and exam results are informed		✓			
4.	Scope for Employment/ Placement activities		✓			
5.	Discipline in the college	✓				
6.	Hostel/College bus facility		✓			
7.	Medical facility provided by the college	✓				

Any other suggestions: _____

C. Govindarajan



DHANALAKSHMI SRINIVASAN ENGINEERING COLLEGE
PERAMBALUR
ALUMNI FEEDBACK

bsi.

Alumni Name	Abhiraj. k		
Year of Passing	2014	Branch	MBA
Permanent Address	Neelakulam (H) Thuvianikulam, Palakkad, Palakkad, Chennai		
E-Mail ID	Abhiraj-123@gmail.com		
Present Organization	Millennium Pinnacle business -		
Designation	Adminstrator Offices	Present Location	Chennai

Make a tick mark in the appropriate cell:

S.No	Particulars	Excellent (4)	Good (3)	Satisfactory (2)	Average (1)	Poor (0)
1.	Your grievances properly handled at the college		✓			
2.	Laboratories & Equipments facility in the college		✓			
3.	Level of obtained technical know-how (both in theory and practice) at DSEC?		✓			
4.	Is the education imparted at college useful and relevant in your present job?		✓			
5.	Rate the Research culture provided in the college		✓			
6.	Training and placement opportunities provided			✓		
7.	Infrastructure facility at the campus		✓			



DHANALAKSHMI SRINIVASAN ENGINEERING COLLEGE
PERAMBALUR
EXIT LEVEL FEEDBACK

bsi.

Name	Akshaya .k		
Year of Passing	2014	Branch	ECF
Permanent Address	Koodathil CHJ, Makkda, kakkodi, Kerala.		
E-Mail ID	likithakshaya@gmail.com		

Make a tick mark in the appropriate cell:

S.No	Particulars	Excellent (4)	Good (3)	Satisfactory (2)	Average (1)	Poor (0)
1.	Your grievances properly handled at the college		✓			
2.	Laboratories & Equipments facility in the college		✓			
3.	Level of obtained technical know-how (both in theory and practice) at DSEC		✓			
4.	Education imparted at college useful and relevant in your present job			✓		
5.	Rate the Research culture provided in the college				✓	
6.	Training and placement opportunities		✓			
7.	Infrastructure facility at the campus			✓		

Suggestions, if any:

The research culture provided in the college should be improved.

