

**The Annual Quality Assurance Report (AQAR) of the
IQAC
2016 - 2017**



Submitted by

Internal Quality Assurance Cell [IQAC]

E.G.S PILLAY ENGINEERING COLLEGE

(Accredited by NAAC with 'A' Grade)

(NBA Accredited Programs B.E (CSE, EEE and Mechanical))

NAGAPATTINAM – 611 002

Submitted to



National Assessment and Accreditation Council

An Autonomous Institute of the University Grants Commission

P. O. Box No. 1075, Nagarbhavi, Bangalore - 560 072

Karnataka, INDIA

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The Annual Quality Assurance Report (AQAR) of the IQAC

Part – A

AQAR for the year

2016-2017

1.Details of the Institution

1.1 Name of the Institution

E.G.S PILLAY ENGINEERING COLLEGE

1.2 Address Line 1

Old Nagore Road, Thethi Village

Address Line 2

Nagore - Post

City/Town

Nagapattinam

State

TamilNadu

Pin Code

611002

Institution e-mail address

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iqac@egsspec.org

1.3 NAAC Track ID- TNCOGN22911

1.4 Website address:

<http://www.egsspec.org>

Web-link of the AQAR:

http://www.egsspec.org/EGSPEC_AQAR_2016_17.pdf

1.5 Accreditation Details

Sl.No.	Cycle	Grade	CGPA	Year of Accreditation	Validity Period
1	1 st Cycle	A	3.02	2016	From March' 16, 2016 To March' 16', 2021
2	2 nd Cycle				
3	3 rd Cycle				
4	4 th Cycle				

1.6 Date of Establishment of IQAC:

02.01.2015

1.7 AQAR for the year(for example 2010-11)

2016 - 2017

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): -

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 Totally Self-financing

1.10 Type of Faculty/Programme

Arts Science Commerce Law PEI(PhysEdu)

TEI (Edu) Engineering Health Science Management

Others(Specify)

-

1.11 Name of the Affiliating University (for the Colleges)

Anna University, Chennai

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

Autonomy by State/Central Govt. / University

University with Potential for Excellence - UGC-CPE -

DST Star Scheme - -

UGC-Special Assistance Programme DST-FIST - -

UGC-Innovative PG programmes

-

Any other (Specify)

-

UGC-COP Programmes

-

2.IQACComposition and Activities

2.1No. of Teachers

05

2.2No. of Administrative/Technical staff

02

2.3No. of students

01

2.4No. of Management representatives

01

2.5No. of Alumni

01

2. 6 No. of any other stakeholder and

01

Community representatives

2.7 No. of Employers/ Industrialists

01

2.8 No. of other External Experts

01

2.9 Total No. of members

13

2.10No. of IQAC meetings held

08

2.11 No. of meetings with various stakeholders:

No.

02

Faculty

✓

Non-Teaching Staff Students

✓

Alumni

✓

Others

✓

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

Yes

No

If yes, mention the amount

-

2.13 Seminars and Conferences (only quality related)

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

Total Nos. International National State Institution Level

(ii) Themes

2.14 Significant Activities and contributions made by IQAC

- The main activity being formulation of plan of action and ensuring the execution of all activities
- Improved the Graduation Results & University Ranks
- Enhanced employability by implementing personality development programs, value added certificate courses & pre-placement training program for the students
- Established linkages with Industries
- Career Guidance and Placement Cell strengthened
- Upgraded library by subscription to e-journals (IEEE)
- More avenues for students to engage in community services
- Sensitizing students to ecological and environmental issues
- Publication of Journals of international standards
- Seminars, conferences and invited talks arranged for students & Faculty members

- Conduction of Faculty development programme every year
- More extension activities
- Governing council meeting held on a regular basis with members of the committee as a part of Academic Review activity
- Internal & External IQAC Academic Audit

2.15 Plan of Action by IQAC/Outcome

The plan of action chalked out by the IQAC in the beginning of the year towards quality enhancement and the outcome achieved by the end of the year *

Plan of Action	Outcome Achieved
Conduct national level seminars/conferences/workshops by all departments.	Conducted by all the departments
Energize the activities of all the clubs and forums in the college.	All the clubs are conducting events periodically
Complete the Construction work of the separate amenities block	Amenities block construction completed
Quality enhancement programmes to students, teachers and administrative staffs.	Conducted the programmes
International Conference	Conducted the programmes
Quality Publication (By Faculty members)	Papers are publishing in reputed journals
Conduct IQAC Internal & External Academic Audit, Log book Verification, External Audit	Conducted for all the departments
Initiate social responsibility activity	Programme conducted by NSS

The Academic Calendar of the year is attached as Annexure I.

2.15 Whether the AQAR was placed in statutory body Yes No

Management Syndicate Any other body

Provide the details of the action taken

AQAR was placed for discussion and ratified in the meeting of Governing Body Meeting. The above tasks were discussed and approved in last year IQAC meeting. For each task, a task in-charge was assigned. Different faculty members who made arrangements for achieving the task yielded the successful outcome of the task.

Part – B

Criterion – I

1. Curricular Aspects

1.1 Details about Academic Programmes

Level of the Programme	Number of existing Programmes	Number of programmes added during the year	Number of self-financing programmes	Number of value added / Career Oriented programmes
PhD	04	-	-	-
PG	06	1	-	4
UG	06	-	-	10
PG Diploma	-	-	-	-
Advanced Diploma	-	-	-	-
Diploma	-	-	-	-
Certificate	-	-	-	-
Others	-	-	-	-
Total	14	01	-	14
Interdisciplinary	-	-	-	-
Innovative	-	-	-	-

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

(ii) Pattern of programmes:

Pattern	Number of programmes
Semester	13
Trimester	-
Annual	-

1.3 Feedback from stakeholders* Alumni Parents Employers Students
(On all aspects)

Mode of feedback: Online Manual Co-operating schools (for PEI)

Analysis of the feedback is attached as Annexure II

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

- Regulation, Curriculum and Syllabus framed by Anna University.
- As per the curriculum, every programme has been designed with the following components:
 - i) Programme Educational Objectives (PEO)
 - ii) Programme Outcomes (POs)
 - iii) Programme Specific Outcomes (PSOs)
- The courses of the respective programme have been designed with the following:
 - i) Course Objectives
 - ii) Course Outcomes (COs)

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

M.E. Environmental Engineering

Criterion – II

2. Teaching, Learning and Evaluation

2.1 Total No. of permanent faculty

Total	Asst. Professors	Associate Professors	Professors	Others
215	148	32	35	-

2.2 No. of permanent faculty with Ph.D.

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
21	0	4	0	9	0			34	0

2.4 No. of Guest and Visiting faculty and Temporary faculty

2.5 Faculty participation in conferences and symposia:

No. of Faculty	International level	National level	State level
Attended	77	64	2
Presented papers	106	141	2
Resource Persons	3	3	5

2.6 Innovative processes adopted by the institution in Teaching and Learning:

- Introduced new teaching methods such as role play, mind mapping etc
- Use of ICT in teaching learning process
- Establishing the Course 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
- Teacher's study materials [soft copy-power point/PDF presentation] are shared with students
- Teaching faculty and students are encouraged to use latest technology such as LCD, internet, NPTEL videos etc., in the teaching learning process
- Innovative teaching methods such as role play, mind mapping, puzzles etc were practiced in class rooms
- Faculty members have been permitted to undergo Faculty Development Programme (FDP) for acquiring subject exposure, thereby the process of teaching-learning has been strengthened.
- Refresher courses and bridge courses are conducted for first year and lateral entry students for the smooth academic transition towards Engineering pedagogy.
- Motivating faculty members for submitting their research proposals as major, minor research projects to various funding agencies and intramural research fund by management. The theme of the proposal is also discussed with the students, thereby the learning ability of the students has been enriched towards research excellence

2.7 Total No. of actual teaching days

During this academic year :

205 - 215

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

The following sorts of reformations are under practice:

As per the University norms, the photocopy of the answer script can be obtained by the students for the purpose of revaluation. The received answer script is evaluated by the faculty expert and submitted by the students for revaluation. If the student does not feel satisfied with the result of revaluation, the University offers "Challenge option", which can be initiated by a student.

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

-	-	-
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2.10 Average percentage of attendance of students

85%

2.11 Course/Programme wise distribution of pass percentage:

Title of the Programme	Total No. of Students Appeared	Division				
		Distinction %	I Class %	II Class %	III Class %	Pass %
B.E (ECE)	65	02	46	-	-	73.84
B.E (CIVIL)	70	-	52	7	-	84
B.E (MECH)	144	2	100	21	-	85
B.E (EEE)	64	-	62.5	15.6	-	78.1
B.E (CSE)	131	-	93	7	-	78.62
B.E(IT)	50	-	60	2	-	62
M.E (Manufacturing)	14	-	10	02	-	86
M.E (PED)	7	-	71.4	-	-	71.4
M.E (CSE)	13	1	7	-	-	53.8
MBA	97	-	46.39	36.08	-	82.47
MCA	71	26.76	71.83	1.41	-	100

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

- IQAC assists the college in preparing Academic Plan every year
- It publishes “ Academic Calendar” each year and issues to all the faculty and students incorporating the Academic Plan in it
- Faculty Development Programmes and orientation programmes are arranged for enhancing professional competency and teaching skills of the faculty.
- It ensures that the Departments provide course outline and course schedule to the students prior to the commencement of the academic session.

- Apart from traditional lecture method of teaching, the IQAC advocates student centric learning - a process in which group discussions, interactive session, seminars , articles / book review, conducting various academic related activities , extension activities, each students, participation in skill development programmes, learning value/ ethics based courses etc., are involved.
- The use of ICT, e-learning, e-books on-line journals, software meant for teaching are the latest technologies in operation at the initiatives of IQAC.
- The college adopts mentor/ tutor system to look after the learning capabilities of students individually.
- Feedback system is adopted to evaluate the teacher’s performance by students / alumni.
- Student’s performance is evaluated through Internal Assessment Exam [IAE] and End semester Examinations and students Grievance if any is fully addressed by means of well established mechanism.
- Each department is allotted with 14 different co-ordinators to lookj into academic, teaching, research, placement, student support etc.
- The monitoring system in respect of teaching, learning and evaluation is manifold such as, IQAC, feedback from stakeholders, Management Review, Internal Audit by IQAC and ISO surveillance Audit by external agency.

2.13 Initiatives undertaken towards faculty development

<i>Faculty / Staff Development Programmes</i>	<i>Number of faculty benefitted</i>
Refresher courses	52
UGC – Faculty Improvement Programme	4
HRD programmes	3
Orientation programmes	221
Faculty exchange programme	2
Staff training conducted by the university	31
Staff training conducted by other institutions	67
Summer / Winter schools, Workshops, etc.	86
Faculty Self appraisal system	47

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	60	10	10	-
Technical Staff	55	3	3	-

Criterion – III

3. Research, Consultancy and Extension

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

- Introduction of seed money up to 1 lakh to students and Faculty projects to promote research culture.
- Motivating students to do many innovative projects and participate in competitions at National and International level
- Directing towards publication of papers in quality journals by students and faculty members.
- Establishing research and innovation club in each department.

3.2 Details regarding major projects

	Completed	Ongoing	Sanctioned	Submitted
Number	-	-	-	5
Outlay in Rs. Lakhs	-	-	-	50 lakhs

3.3 Details regarding minor projects

	Completed	Ongoing	Sanctioned	Submitted
Number	5	8	6	22
Outlay in Rs. Lakhs	4.18	8.4	4.02	19.67

3.4 Details on research publications

	International	National	Others
Peer Review Journals	13	-	-
Non-Peer Review Journals	28	-	-
e-Journals	2	-	-
Conference proceedings	44	7	-

3.5 Details on Impact factor of publications:

Range	2.93	Average	12	h-index	12	Nos. in SCOPUS	5
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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
Interdisciplinary Projects	-	-	-	-
Industry sponsored	-	-	-	-
Projects sponsored by the University/ College	1	PMKV	4,50,000	4,50,000
	6	EGSPEEC	2,20,000	2,20,000
Students research projects <i>(other than compulsory by the University)</i>	1	ISTE	10,000	10,000
	4	TNCST	45,000	45,000
Any other(Specify)	1	BFSI Traning Programme (TNCST)	25,000	25,000
	1	Capacity Building, Tamil Nadu State council for science and Technology	1,00,000	1,00,000
	1	TAHDCO/ICTACT	56,000	56,000
	4	Training Programmes	60,000	60,000
Total	19	-	9,66,000	9,66,000

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

UGC-SAP CAS DST-FIST
DPE DBT Scheme/funds

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	9	3	-	-	-
Sponsoring agencies	IEEE	EGSPEEC			

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
37	12	2	8	-	-	15

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: 04

University level State level

National level International level

3.22 No. of students participated in NCC events: 01

University level State level

National level International level

3.23 No. of Awards won in NSS: Nil

University level	<input type="text" value="-"/>	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="-"/>	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" value="02"/>	College forum	<input type="text" value="04"/>		
NCC	<input type="text" value="04"/>	NSS	<input type="text" value="8"/>	YRC & RRC	<input type="text" value="02"/>

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

- World Environment Day - 5.6.2016
- World Yoga Day - 21.6.2016
- Blood Donation Day - 1.10.2016
- Tree plantation program - 15.10.2016
- World AIDS Day - 1.12.2016
- Plastic awareness - 7.1.2017
- Youngster's Day - 12.1.2017
- Road Safety program - 3.3.2017
- Women's Day celebration - 7.3.2017
- NSS special camp at Thethi village (During camp karuvelam trees removing from this village) 20.2.2017 – 26.2.2017

Enclosed Annexure – III for Extension Activities

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	37.1	-	Management	37.1
Class rooms	66	-	-do-	66
Laboratories	18	-	-do-	18
Seminar Halls	4	-	-do-	
No. of important equipments purchased (\geq 1-0 lakh) during the current year.	--	-	-do-	
Value of the equipment purchased during the year (Rs. in Lakhs)	7,57,78,898	7,68,126	-do-	7,65,47,024
Others	-	-	-	-

4.2 Computerization of administration and library

- College Office, Office of the controller of Examinations, Library and the entire administrative processes are completely computerized and interlinked with LAN connection.
- Wi-fi enabled campus
- OPAC software is installed in the library
- University correspondence is in digitalized mode (Online Entry of Internal Marks and Attendance)
- E-journals facility
- Parent intimation through online system

4.3 Library services:

	Existing		Newly added		Total	
	No.	Value	No.	Value	No.	Value
Text Books	49248	1,747,1306.91	-	-	49248	1,747,1306.91
Reference Books	822	1,56,180	-	-	822	1,56,180
e-Books	25	9500	-	-	25	9500

Journals	160	5,00,000	-	-	160	5,00,000
e-Journals	1401	21,00,000	-	-	1401	21,00,000
Digital Database	--	--	-	-	--	--
CD & Video	883	--	-	-	883	--
Others (book bank)	1246	2,63722.10	-	-	1246	2,63722.10

4.4 Technology up gradation (overall)(**ONLY FOR CSE, IT and MCA DEPT**)

	Total Computers	Computer Labs	Internet (Mbps)	Browsing Centres	Computer Centres	Office	Departments	Others
Existing	458	7	64	11	4	1	7	-
Added	-	-	-	5	1	1	-	-
Total	458	7	64	16	5	2	7	-

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

- Computer and internet facility round the clock
- Internet access in boys and Girls hostel after 5:00pm
- Wi-Fi Enabled Campus
- Value added Course relevant to their subjects
- Faculty Development Programmes and workshops in emerging area [Big Data, Hadoop, Cloud Computing, E-Governance etc] for faculty and students.

4.6 Amount spent on maintenance in lakhs :

i) ICT	1.7
ii) Campus Infrastructure and facilities	1.3
iii) Equipments	11.4
iv) Others	7.5
Total :	21.9

Criterion – V

5. Student Support and Progression

5.1 Contribution of IQAC in enhancing awareness about Student Support Services

The IQAC renders information and support that the students and the alumni need.. It also ensures that the students are provided with skills and competencies needed for successful competition in the employment market.

IQAC creates awareness about Student Support Services through

- Class committee / Representative meetings
- Information display on website / notice board.
- Grievance Redressal Cell mechanisms
- Provided Question Bank System in department under two streams namely (i) Question bank of previous year, (ii) Question Bank with solved answers.
- Provision of E-Learning resources for the improved success rate in the examination.
- Encourage students to convert their project outcomes as publications.
- Establishing ICT enabled class rooms in all the departments.
- Introducing Innovative remedial mechanism for the failure students with more involvement by the faculty members with the pedagogy namely “Activity based learning system” for slow learners.
- Establishing “Best Research Paper award” for the paper publications by the students in reputed journals.
- Formation of “Toppers Academy” for identifying the creamy layer students who are eligible for specialized training.
- Promotion of “Monthly Students Award Scheme” for the students who achieved excellence in Academic/Sports and others.
- Course materials are provided in the *Cloud* environment

5.2 Efforts made by the institution for tracking the progression

- ❖ Each department maintains records related to programme – Admission, Success rate, percentage of students progressing to higher education or employment etc.
- ❖ Tracking the progression is done by:
 - Monitoring academic performance by continuous evaluation
 - Regular monitoring of students attendance and participation in co-curricular and extra curricular activities.
 - Regular observation
 - Regular meetings/monitoring
 - Faculty involvement through counselling system.
 - Regular feedback from students

5.3 (a) Total Number of students

UG	PG	Ph. D.	Others
2254	327	-	-

(b) No. of students outside the state

356

(c) No. of international students

-

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

- The Quantitative Aptitude and Logical Reasoning has been made mandatory for all students.
- The Materials required to prepare for competitive examinations are purchased and made available to the students in the library.
- Journals / Magazines related to competitive examinations are kept in the library.

No. of students beneficiaries

700

5.5 No. of students qualified in these examinations:

NET SET/SLET GATE CAT
IAS/IPS etc State PSC UPSC Others -

5.6 Details of student counselling and career guidance

A separate counselor is allotted to each student.

No. of Students per counselor/Tutor - 20

- Mode - Personal Meeting
- Area – Academic, Personal problem, Grievances and Motivation for better performance
- Reporting - Monthly Report to the Head of Departments.
- Monitoring : HoDs are responsible to monitor counseling and career guidance process

A separate training and placement cell is established for career guidance

No. of students benefitted

20-30

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
16	224	138	21

5.8 Details of gender sensitization programmes

As per the AICTE guidelines “Women Empowerment Cell” has been framed in the Institution and it regularly organizes various programmes for students and faculty members. The Women Empowerment Cell celebrated the “World Women’s Day”. During the period from 01/03/2016 to 03/03/2016, series of competitions namely, Poetry, Classical Dance, Mehandhi, Pencil Drawing, Concentration & Surprise Games and Tongue Twister Game have been organised for girl students and for female faculty members. These kinds of opportunities were arranged to show their performance in different talented activities. In total 250 students and 50 faculty members have participated in the contest and 45 of them won various prizes.

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	15	4,45,000
Financial support from government	1743	6,53,80,365
Financial support from other sources	03	80,000
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: NIL

Criterion – VI

6. Governance, Leadership and Management

6.1 State the Vision and Mission of the institution

VISION

Envisioned to transform our institution into a “GLOBAL CENTRE OF ACADEMIC EXCELLENCE”

MISSION

1. To provide world class education to the students and to bring out their inherent talents.
2. To establish state-of- the-art facilities and resources required to achieve excellence in teaching -learning, and supplementary processes.
3. To recruit competent faculty and staff and to provide opportunity to upgrade their knowledge and skills.
4. To have regular interaction with the Industries in the area of R&D, and offer consultancy, training and testing services.
5. To establish centers of excellence in the emerging areas of research.
6. To offer continuing education, and non-formal vocational education programmes that are beneficial to the society.

6.2 Does the Institution has a management Information System

Nil

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

6.3.1 Curriculum Development

Quality curriculum is developed taking into account the views of all stakeholders students, alumni, subject experts, faculty expertise and industrial experts. Industry based curriculum with societal impact is the key point in developing the curriculum

6.3.2 Teaching and Learning

- Adopting **interactive method, project-based learning, computer-assisted learning, experiential learning, Centric learning, seminars, guest lectures, group discussions** to make teaching and learning as efficient and effective process.
- Use of teaching aids like OHP and LCD Projector in addition to Conventional lecture method.
- Web based learning and Visual class rooms are used to enrich their knowledge in latest Technologies.
- Providing practical experience by way of hands on training, mini projects and additional lab experiments beyond the syllabus.
- Providing Internet facilities during college hours and beyond to have exposure to latest trends.
- Arranging guest lecturers by inviting experts from Industries, Research Organizations and Educational Institutions in the emerging field to enable the staff and students to learn new technologies.
- Interaction sessions are arranged with people from Industries to have a clear idea regarding the industrial needs.
- Encouraging the learners to ask questions during teaching process (Learn by Queries) in order to clear the doubts while grasping the subject.

- Submitting assignments / Innovative works on various topics.
- Conducting seminars and presenting papers in the class, provides platform for discussion among the learners.
- Visiting Industries, Exhibitions, Trade Fairs etc., helps to enhance their knowledge.
- Participating and presenting papers in symposiums, Conferences, Displaying their Project etc., helps to exhibit their talents.
- Arranging Professional Trainers from reputed organization to develop their aptitude, communication, personality development and other soft skills.
- Identifying the slow learners and adopting remedial measures to improve

6.3.3 Examination and Evaluation

All components in any programme of study are evaluated continuously through internal assessment and an external assessment. Internal assessment is done throughout semester in the form of Internal assessment examinations and assignments. External evaluation is done at the end of semester in the form of end examination.

6.3.4 Research and Development

- A separate Research and Development cell is functioning with a designated R & D Director.
- Efforts are being taken to obtain research projects, grants from funding agencies.
- Providing monetary incentives to the staff and students for presenting research papers in State, International, National level Seminar and Symposium.
- Encouraging faculty to enhance their qualification [M.Phil/ Ph.D., programme]

6.3.5 Library, ICT and physical infrastructure / instrumentation

Library

Library Committee suggested a list of books based on interaction with the students and faculty members. This list was forwarded to concerning authority for sanction and purchase of books.

ICT Infrastructure

LCD projectors, Desktops, printers, Internet switches, Dot matrix printers, UPS, application software and systems software's

Physical Infrastructure

E.G.S Pillay Engineering College has sufficient infrastructures which includes, seminar Halls equipped with internet and projectors. Office, Class rooms, Boys common rooms, Girls common rooms, Laboratories equipped with necessary hardware and software, communication Laboratory, Research Laboratory, Library, Internet and wi-fi facility in the entire building.

The academic schedule is drawn at the beginning of the academic year itself in such a way that the available Air Conditioned Seminar Halls, Language Lab, Computer Centres, Hardware Labs, Audio Visual Rooms, LCDs, Play grounds, Gym, Digitalized Library, Dynamic Website, 24x7 Wi-Fi Campus.

Sports

The institute has several sports facilities like Gym. Hall, Play grounds, carom boards, chess boards, badminton kits, cricket kit, TT kit, volleyball, football, etc. are available

6.4 Welfare schemes for

Teaching	<ul style="list-style-type: none">• Certificates of appreciation for producing 100% results in theory subjects and 90% and above results in analytical subjects in University examinations in the subjects handled.• Monetary incentives for publication / presentation of papers in peer-reviewed Journals and Conferences.• Granting permission for attending Conferences, Seminars, Workshops, Faculty Development Programme, Summer /Winter school etc• Permission to register for doing M.E/ Ph.D., programmes to enhance their qualifications.• Some other benefits :<ul style="list-style-type: none">Medical leave facilityOn duty facilityProvident fund
Non – Teaching	<ul style="list-style-type: none">➤ Concessional Transport Facility➤ Medical leave facility
Students	<ul style="list-style-type: none">➤ Financial assistance to economically weaker students➤ Merit Scholarship based on their academic performance➤ Student Awarded for their performances➤ State/Central Government Scholarship facilities➤ Subsidized Bus Fare

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	IQAC	Yes	IQAC
Administrative	Yes	GCM	Yes	GCM

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?

1. Affiliated to Anna University, Chennai
2. For Regulation 2013 University introduced Part – C pattern (15-Mark) Case Study or Application oriented question

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

Anna University, Chennai has taken the following efforts to promote autonomy:

- Academic freedom in autonomous colleges by encouraging introduction of innovative academic programmes
- Facilitate new courses of study, subject to the required minimum number of hours of instruction, content and standards
- Permitting them to issue their own provisional, migration and other certificates
- To reduce work effort by university people and with depute various nominees of the university to serve in various committees of the autonomous colleges and get the feedback on their functioning
- Providing opportunity to conduct examination more innovatively
- Academic flexibility to the institute
- The University Reviews the functioning of autonomy once in three years.
- Nominates its representatives to the statutory bodies - Board of Studies, Academic Council and Governing Body.

6.11 Activities and support from the Alumni Association

- The alumni association has been established to have strong linkage
- They also make generous contribution for the development of the college and students.
- An alumni meeting is conducted every year in the month of March/April.
- They regularly interact with the students to create corporate awareness.
- Guest Lecture are conducted through alumni.
- Department wise meeting is also held at least once in a year.
- Assist the college in getting placement for the current students.
- Member of various bodies/committees of the college and contribute to Curriculum revision, Program Outcome revision etc..

6.12 Activities and support from the Parent – Teacher Association

- Parents suggest the ways and means for the development of the college during parents meeting.
- Co-operate with the staff for the regularity and discipline of the students.

6.13 Development programmes for support staff

- Encouraged to do higher studies in our college or outside.
- Training programmes are regularly conducted to improve their skills

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

The college is lying on the lap of green and resplendent natural beauty with a variety of flora and fauna. The inmates of the college are very careful to keep the campus plastic free. Various clubs and forums are actively involved in the maintenance of ecological; balance in the campus. The initiatives that have been put in place to promote the concept of '**reduce, reuse and recycle**' contribute to protecting the environment. The institute have the following eco-friendly scenarios. They are

- Waste Segregation
- Replacing tube lights with CFC bulbs.

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.

- Programmes conducted based on Industry expectations which create significant improvements in students skill set that facilitate good placement.
- “Project Expo” a project exhibition induced the creativity of students to exhibit their engineering practical knowledge in their specific domain.
- Tool based practical workshops have been arranged for the students under selfsupporting nature that facilitate increase in participation of seminars/workshops. In-house software needs have been addressed and guided solutions are also under practice.
- Entrepreneurship development activities are successfully performed that includes field visit also.
- Group discussions, Mock-Interviews, Online aptitude training are regularly organized during the internet and placement hours, that facilitates increase in placement.
- “SMS based Internal test marks delivery” has been successfully introduced which facilitate more involvement by parents in their wards studies. Since, the institution is having the academic tie-up with ICT Academy ofTamilnadu, training programmes, guest lectures, webinars are regularlyorganized for increasing the awareness and learning attitude of students.
- Beyond Institution level programmes, students are also encouraged to participate in various programmes such as symposium, seminars, workshop, technicalcompetitions conducted by other colleges/University/Institutions.
- Compulsory Bridge courses were offered to first year students for all thesubjects.
- Students Attendance Monitoring Systems
- Virtual Tour
- Campus to Corporate Programmes

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

IQAC planned the objectives for current year (2016-17) and its progress was monitored through action taken report monthly from all concerned persons. In its meeting these action taken reports were discussed and correction was done appropriately whenever it was required

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

Refer Annexure IV

7.4 Contribution to environmental awareness / protection

Our college seeks to provide an education combining the generous arts, work and service with a strong commitment to environmental responsibility and cross-cultural understanding in a setting that promotes wisdom, spiritual growth and contribution to the common good.

The environmental degradation is arrested through

- ▶ Tree Planting whenever necessary
- ▶ Conservation of energy by replacing the tube lights with CFL bulbs,
- ▶ Turning off electricity in class rooms and hostels, and other places when sunlight is naturally available in plenty
- ▶ Prohibition of movement of vehicles inside the campus
- ▶ Inclusion of a course on 'Environmental Studies' in the curriculum.

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:

- ❖ Institution is 20 years old and located in city limits
- ❖ Faculty retention is appreciable
- ❖ Encouragement for acquisition of higher qualification by faculties
- ❖ Funded Research Projects, Sponsored FDP's/STP's/Conferences

Weakness:

- ❖ Majority of students are of average level and from rural areas
- ❖ Majority of students are dayscholars.
- ❖ Inadequate industry interaction
- ❖ Qualified/Experienced faculty are unwilling to come due to locational disadvantage
- ❖ R & D and Consultancy works are to be improved.
- ❖ Sports and games activities are to be improved

Opportunities:

- ❖ Scope for person oriented and location specific and sponsored research projects.
- ❖ Innovation in teaching-learning process.
- ❖ Preparations for web-based online courses
- ❖ Attraction of students from all over Tamil Nadu and other states.
- ❖ Students participation in club activities, inter collegiate activities etc.
- ❖ Preparing students for GATE, Aptitude Exams, etc.

- ❖ Increased interaction with industries and alumni

Challenges:

- ❖ Training of average students and with rural and diverse background.
- ❖ Preparations for students' progression in higher education
- ❖ Rising up to the level of technology development.
- ❖ Consultancy and extension services
- ❖ Collaboration with industries/Institutions.
- ❖ Attracting creamy layer students and students from other districts/states

8. Plans of Institution for next year

- Plan to get Accreditation for remaining programmes
- Plan to obtain Research Centre Recognition for Civil, IT, MCA, MBA and Humanities & Science departments
- Strengthen Industry Institute Interaction through Installing of Industry Institute Partnership Cell (IIPC).
- Conducting Entrepreneurship training and certification programme to students from their first year onwards through Entrepreneurship Development Cell (EDC)

Annexure I

Academic Calendar

E.G.SPILLAY ENGINEERING COLLEGE, NAGAPATTINAM I Year Academic Schedule for the Even Semester 2015-2016

Week Day	JAN 1	JAN 2	JAN 3	FEB 4	FEB 5	FEB 6	FEB 7	FEB MAR 8	MAR 9	MAR 10	MAR 11	MAR APR 12	APR 13	APR 14	APR 15	APR 16
Mon	11	18	25	1 UT 1&2	8	15 CT I	22	29 CCM 2	7	14	21 CT II	28 CT II	4 ME	11	18	25
Tue	12	19	H Republic Day	2 UT 3&4	9	16 CT I	23	1	8	15	22 CT II	29	5 ME	12	H Mahasivaratri	26
Wed	13	20	27	3 UT 5&6	10	17 CT I	24	2	9	16	23 CT II	30	6 ME	13	20	27
Thu	H HOLIDAYS		21 DT	28	4	11	18 CT I	25 RM 2	3	10 FB 1	17	24 RM 3 CT II	31 CCM 3	7 ME	H Tamil new year	28
Fri	H HOLIDAYS		22	29	5 RM 1	12	19 CT I	26	4	11	18	H Good Friday	1 RM 3	8 ME	15 RM 4	22
Sat	H HOLIDAYS		23	30 CCM 1	6	13	20 CT I	27	5	12	19	26 CT II	2	9 ME	16	23
																30 LWD

DT Commencement of Daily Test
 UT n Unit Test n (2 Hrs - 1 Unit)
 CT I Cycle Test-I (3 Hrs - II, III Unit)
 CT II Cycle Test-II (3 Hrs - I, IV, V Unit)
 ME Model Examination n (3 Hrs - All Units)
 CCM n Class Committee meeting n
 RM n Review meeting for Test n
 FB n Feedback n received from the student

Total No of Working Days : 89
 Total No of Working Periods : 712

Internal Marks Assessment (R 2013)

Theory	Test			
	20			
Lab	Observation	Model	Record	Total
	5	10	5	20

Timetable

I	II	III	IV	V	VI	VII	VIII
9.00am	9.50 am	10.55 am	11.45 am	01.15pm	02.05 pm	03.05 pm	03.55 pm
-9.50 am	-10.40 am	-11.45 am	-12.35 pm	-02.05 pm	-02.55 pm	-03.55 pm	-04.45 pm

Tea Break : 10.40am-10.55am, 02.55pm-03.05pm & Lunch Break : 12.35pm-01.15pm

Annexure II

Stakeholder's Feedback Analysis

a. Feedback from alumni

Feedback on curriculum is obtained from Alumni, when they come to the college to get their original Certificates / Degrees on completion of the course and attend the Alumni Meet arranged by the department concerned periodically. Based on the feedback, the necessary recommendations are proposed in the Board of Studies for discussion and approval. Alumni are also a member in the Board of studies. The recommendations made by the alumni, subsequently discussed and approved by the BOS.

b. Feedback from Parents

During Parents' Meeting, parents meet the faculty to know about the academic performance, regularity, conduct and behaviour of their wards and they provide such information about the usefulness or suitability of the programme of their wards.

c. Feedback from Peers

The College gets feedback from the Subject Experts, Resource Persons, Members of Inspection Commission and External Examiner for conducting Viva-voce, Special invitees to the seminars, symposium and workshops arranged in the College campus to enrich the curriculum.

Based on the feedback, the necessary recommendations are proposed in the Board of Studies for discussion and approval. Some of the recommendations made by the Peer Team, subsequently discussed and approved by the Board of Studies.

d. Industrial Experts

Each Board of Studies is represented by a noted person from Industry. His / Her elucidations on the requirements of industry with regard to subject knowledge and skill are faithfully taken for consideration while revising / updating the curriculum.

Based on the feedback, the necessary recommendations are proposed in the Board of Studies for discussion and approval. Some of the recommendations made by the industrial experts subsequently discussed and approved by the Board of Studies.

EXTENSION ACTIVITIES & INSTITUTIONAL SOCIAL RESPONSIBILITY



Founder's Day – Feeding for poor People



Organ Donation Camp



Anti-Ragging Debate



Digital Literacy Programme

EXTENSION ACTIVITIES & INSTITUTIONAL SOCIAL RESPONSIBILITY



NSS Awareness Camp



BFSI Programme



Donation to Orphanage People



Electoral Purification

Produced 8000+ Graduates, more than 6000 Registered Alumni, 117 University Rank Holders, more than 77% Placements in last year



ICTACT Best Academic Partner award-2015 & 2016

Best Blood Donor Award from 2010 to 2015



School Students Motivational-2015

CISCO Academy Years of Service-2014

CSI Accredited Award-2014

VMWare IT Academy-2015

EMC Centre of Excellence -2016



Consecutive 2 years Zonal level Handball, Cricket winner - 2014, 2015



Anna Univ - Sponsored FDTP-Dec'2015

Google for work - Smart Administrator Award - 2016



Participation in Guinness Record for Highest Tree Plantation in Nagapattinam District-2013



Dr. Chev. GS. Pillay Achievers Day Function - 2015

BEST PRACTICES

1. Studies on the efficacy of Rainwater harvesting system under Nagapattinam coastal situation

- **Goal** – to harvest entire quantity of rainwater received in the campus with a view to save the expenditure on water bill and to charge the ground water which is highly saline
- **The Context** - the rainfall received in the campus over the total area of 25 acres is collected and stored in natural ponds, there will be huge saving in expenditure but also there is chance of improving the quality of ground water over the years
- **The Practice** - The rainwater received on roof tops of the building is also made to run into the pond with properly designed pipeline systems. The pond has the storage capacity of 6000 cubic metre of water
- **Evidence of Success** - The result indicates that there is great scope for creation of hundreds of such rainwater storage ponds which will be highly useful for Nagapattinam coastal areas where water scarcity prevails
- **Problems encountered and Resources required** - Roof top rainwater has to be conveyed through proper pipeline system, Civil work viz. surplus water outlet is required , Water pumping systems have to be installed for using the stored water.
- **Notes** - Design and Development of Rainwater collection, Storage and usage system are simple and very much needed technology for the water scarce areas

BEST PRACTICES

2. Feasibility testing and Extension of the Technology of solar cum wind operated power generation system in Nagapattinam coastal areas

- **Goal** – to undertake test verification and extension work of this technology through ocular demonstration of the model unit and offering technical knowhow.
- **The Context** - Combination of Solar and Wind energy technologies has yielded fruitful results in many places. Nagapattinam district blended with 150kms stretch of coastal belt has abundant sunshine and wind.
- **The Practice** - The prototype unit of a 5 KW Wind Hybrid (Wind 60% and Solar 40%), solar cum wind operated power generation unit has been installed in the college campus.
- **Evidence of Success** - The technology is proven and the unit is running successfully.
- **Problems encountered and Resources required** - The prototype unit of solar cum wind operated power generation is available only with limited organizations. Extraordinary time delay is experienced in shipping the unit by the supplier and executing erection of the unit.
- **The cost** of the project is Rs.8.00 lakhs. Requires technical man power for installation and demonstration of the working..
- **Notes** - The solar cum wind operated power generation system has great scope, especially in coastal areas where in sunshine and wind energy are abundant. The payback period of the project is calculated as 8 years, beyond which period, the power produced will be free of cost.

List of Best Practises

- ✓ Open Source Lab
- ✓ VMWare IT Academy
- ✓ Quality Improvement Cell
- ✓ Designers Domain
- ✓ E-Learning Portal
- ✓ E-Counseling Systems
- ✓ Banking Financial Services Insurance Nodal Centre
- ✓ Programmers Paradise Club



Programmers Paradise Club –E-Box Course



Quality Improvement Cell



ICTACT – HR Conclave



Academic Excellence

Innovations

- ✓ **Office Administration** - Computerized students performance monitoring system, Bio-metric attendance systems
- ✓ **Energy Conservation/Protection of Eco-System** – Solar Water Heater, Solar Light, Solar cum wind power plant, Rain water Harvesting, Sewage treatment
- ✓ **Research & Development** – Student Projects (Salary master, E-Counseling, Attendance Submission system, Diesel filling and Incentive Calculator)

- ✓ **Student Progression** – Special program for rural and Tamil medium students, leading placement provider in this region, Education for large no. of SC and Girl students, nearly 80% of students getting financial assistance
- ✓ **Social Responsibilities** – Contribution to TSUNAMI affected people, Tree Plantation in coastal area, Organ & Blood donation Camps, Solar fish drying unit for Nagapattinam municipality

ENVIRONMENT CONSCIOUSNESS



CLEAN CAMPUS - GREEN CAMPUS ENVIRONMENT FRIENDLY ATMOSPHERE



BIO GAS PLANT

ENVIRONMENT CONSCIOUSNESS



HYBRID WIND & SOLAR PLANT



SOLAR WATER HEATER



RAIN WATER HARVESTING

**MoU signed for 100 kVA
Roof Top Solar Plant-
Ravin Solar, Pune**

INNOVATIVE PRACTICES



Solar
Panels
(1.5 kW)



Wind
Mill
(4.5 kW)



Solar lights – GG Block



Solar lights – SJ Block

***** AQAR 2016-2017 *****