



Yearly Status Report - 2019-2020

Part A

Data of the Institution

1. Name of the Institution		E. G. S. PILLAY ENGINEERING COLLEGE
Name of the head of the Institution		Dr. S. Ramabalan
Designation		Principal
Does the Institution function from own campus		Yes
Phone no/Alternate Phone no.		04365251112
Mobile no.		7373067032
Registered Email		mchinna81@gmail.com
Alternate Email		principal@egspec.org
Address		Old Nagore Road, Thethi, Nagore Village, Nagapattinam Dt.
City/Town		Nagapattinam
State/UT		Tamil Nadu
Pincode		611002

2. Institutional Status																			
Autonomous Status (Provide date of Conformant of Autonomous Status)	28-Feb-2017																		
Type of Institution	Co-education																		
Location	Rural																		
Financial Status	Self financed																		
Name of the IQAC co-ordinator/Director	Dr. M. Chinnadurai																		
Phone no/Alternate Phone no.	04365251114																		
Mobile no.	9965528581																		
Registered Email	mchinnadurai@egspec.org																		
Alternate Email	iqac@egspec.org																		
3. Website Address																			
Web-link of the AQAR: (Previous Academic Year)	http://www.egspec.org																		
4. Whether Academic Calendar prepared during the year	Yes																		
if yes,whether it is uploaded in the institutional website: Weblink :	http://www.egspec.org																		
5. Accrediation Details																			
<table border="1"> <thead> <tr> <th rowspan="2">Cycle</th> <th rowspan="2">Grade</th> <th rowspan="2">CGPA</th> <th rowspan="2">Year of Accrediation</th> <th colspan="2">Validity</th> </tr> <tr> <th>Period From</th> <th>Period To</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>A</td> <td>3.02</td> <td>2016</td> <td>16-Mar-2016</td> <td>31-Dec-2022</td> </tr> </tbody> </table>						Cycle	Grade	CGPA	Year of Accrediation	Validity		Period From	Period To	1	A	3.02	2016	16-Mar-2016	31-Dec-2022
Cycle	Grade	CGPA	Year of Accrediation	Validity															
				Period From	Period To														
1	A	3.02	2016	16-Mar-2016	31-Dec-2022														
6. Date of Establishment of IQAC	01-Jul-2015																		
7. Internal Quality Assurance System																			
Quality initiatives by IQAC during the year for promoting quality culture																			
Item /Title of the quality initiative by IQAC	Date & Duration			Number of participants/ beneficiaries															
Regular meeting of Internal Quality	24-Sep-2019 1			23															

Assurance Cell		
Two-day workshop on	15-Feb-2020 2	220
Motivating all the faculty members to publish research articles in Scopus, UGC and web of science journals	11-Jul-2019 1	246
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8. Provide the list of Special Status conferred by Central/ State Government-UGC/CSIR/DST/DBT/ICMR/TEQIP/World Bank/CPE of UGC etc.

Institution/Department/Faculty	Scheme	Funding Agency	Year of award with duration	Amount
E.G.S. Pillay Engineering College	Major projects	Indian Council for Social Science Research (ICSSR-IMPRESS)	2020 730	1490000
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9. Whether composition of IQAC as per latest NAAC guidelines:

Yes

Upload latest notification of formation of IQAC

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10. Number of IQAC meetings held during the year :

4

The minutes of IQAC meeting and compliances to the decisions have been uploaded on the institutional website

Yes

Upload the minutes of meeting and action taken report

[View File](#)

11. Whether IQAC received funding from any of the funding agency to support its activities during the year?

No

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

1. Our IQAC initiated and completed the pending syllabus in the even semester of academic year 20192020 and conduct of examinations online mode to handle the pandemic situation. 2. Provision of Great learning platform for students and faculty to upgrade their skills during the lockdown period was initiated and succeeded in getting fruitful results. 3. Provision of Hardware and Software facilities to conduct the classwork for 202021 academic year through online mode was initiated. 4. Provision of precautions/measures in the campus against COVID19

unlock was initiated. 5. Initiated extension activity by involving technical expertise. 6. Up gradation of college website for better visibility. 7. Setting question paper for online exams to ensure quality. Motivate faculties to complete their PhD.

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

Plan of Action	Achivements/Outcomes
Preparation of college annual report	The college annual report is prepared
"To improve the quality of engineering education in EGSPEC under autonomous pattern"	"Different club activities are conducted "
Motivating Faculty members to apply major research proposals to appropriate funding agencies	Received funding for 3 major proposal from Indian Council for Social Science Research (ICSSR- IMPRESS), Tamil Nadu State Council for Science and technology (TNSCST)
Conducting capability enhancement programmes for students	Many capability enhancement programmes are conducted with the collaboration of other organizations such as TCS, IVTL Infoview Technologies, GUVI Greek Network Pvt Ltd
Motivating students to participate in other colleges' curricular, co-curricular and extracurricular activities	More than 150 students participated in various cultural and sports competitions
Motivating students for higher studies	Awareness program on Engineering Placement and Competitive exam is conducted.
Getting feedback from all stake holders	Feedbacks are collected from students. Parents, Alumni, and employers.
Implementing innovative teaching-learning strategies for the benefits of students	Our faculty members received awards from AICTE Smart India Hackathon, AICTE Chatra Viswakaram, Microsoft innovative educator expert
Increasing the number of quality Research articles in indexed journals	64 Research articles are published by faculty members in reputed indexed journals

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14. Whether AQAR was placed before statutory body ?

No

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

No

16. Whether institutional data submitted to AISHE:	Yes
Year of Submission	2020
Date of Submission	22-Jan-2020
17. Does the Institution have Management Information System ?	Yes
If yes, give a brief description and a list of modules currently operational (maximum 500 words)	The management information system used in E.G.S. Pillay Engineering is called Campus Management System (CMS). CMS is fully automated software used to maintain a complete record of teaching learning process and student activities in both academic and nonacademic contexts. It maintains all details related to students, faculties and nonteaching staffs including their personal information, daily attendance, results of internal assessment marks and university results, mentoring report, curricular and extracurricular achievements, etc. The reports can be viewed by individual faculty members, tutor, head of departments, principal as well as secretary with their own login id.

Part B

CRITERION I – CURRICULAR ASPECTS

1.1 – Curriculum Design and Development

1.1.1 – Programmes for which syllabus revision was carried out during the Academic year

Name of Programme	Programme Code	Programme Specialization	Date of Revision
BE	BM	Biomedical Engineering	19/08/2019
BE	CE	Civil Engineering	19/06/2020
ME	EV	Environmental Engineering	19/06/2020
BE	CS	Computer Science Engineering	08/06/2020
BE	EC	Electronics and Communication Engineering	12/06/2020
BE	EE	Electrical and Electronics Engineering	11/06/2020
BE	ME	Mechanical	27/06/2020

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1.1.2 – Programmes/ courses focussed on employability/ entrepreneurship/ skill development during the Academic year

Programme with Code	Programme Specialization	Date of Introduction	Course with Code	Date of Introduction
BE	Biomedical Engineering	10/04/2019	1901HSX51 - Communication Skill Lab	25/05/2019
BE	Biomedical Engineering	10/04/2019	1901GE201 - Engineering Exploration	25/05/2019
BE	Biomedical Engineering	10/04/2019	1904GE351 - Life Skills: Verbal Ability	26/05/2019
BE	Biomedical Engineering	10/04/2019	1904GE451 - Life Skills: Verbal Reasoning	26/05/2019
BE	Civil Engineering	01/06/2011	1902CE551-Computer aided building drafting lab	19/06/2019
BE	Civil Engineering	01/06/2011	1702CE751-Computer aided design and drafting lab	19/06/2019
BE	Civil Engineering	01/06/2011	1704GE351-Life skills: Soft skills	19/06/2019
BE	Civil Engineering	01/06/2011	1704CE353-Technical seminar I	19/06/2019
BE	Civil Engineering	01/06/2011	1902CE454-Technical seminar II	02/12/2019
BE	Civil Engineering	01/06/2011	1904GE451-Life skills: Verbal ability	02/12/2019

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1.2 – Academic Flexibility

1.2.1 – New programmes/courses introduced during the Academic year

Programme/Course	Programme Specialization	Dates of Introduction
No Data Entered/Not Applicable !!!		
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1.2.2 – Programmes in which Choice Based Credit System (CBCS)/Elective Course System implemented at the

College level during the Academic year.

Name of programmes adopting CBCS	Programme Specialization	Date of implementation of CBCS/Elective Course System
BE	Civil Engineering	01/07/2019
BE	Computer Science and Engineering	01/07/2019
BTech	Information Technology	01/07/2019
BE	Mechanical Engineering	01/07/2019
MBA	Business Administration	01/07/2019
MCA	Computer Applications	01/07/2019
ME	Environmental Engineering	16/09/2019
BE	Electrical and Electronics Engineering	01/07/2019
ME	Manufacturing Engineering	16/09/2019
ME	Power Electronics and Drives	16/09/2019
ME	Computer Science and Engineering	16/09/2019
BE	Electronics and Communication Engineering	01/07/2019
ME	Communication Systems	16/09/2019

1.3 – Curriculum Enrichment

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

Value Added Courses	Date of Introduction	Number of Students Enrolled
Value added course on STAADPRO	16/07/2019	59
Skill rack	25/07/2019	35
Soft skill training for III year students	15/06/2019	119
Soft skill training for IV year students	01/06/2019	121
EAC camp	19/09/2019	8
Python programming	22/04/2020	119
Data center virtualization and cloud computing	19/04/2020	119
Exploring arduino	20/07/2019	72
Embedded system design using arduino	23/09/2019	53
Oracle PL/SQL	15/11/2019	60
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1.3.2 – Field Projects / Internships under taken during the year

Project/Programme Title	Programme Specialization	No. of students enrolled for Field Projects / Internships
BE	Civil Engineering	117
BE	Computer Science Engineering	124
BE	Electronics and Communication Engineering	119
BE	Electrical and Electronics Engineering	72
BTech	Information Technology	245
BE	Mechanical Engineering	127
MBA	Business Administration	120
MCA	Computer Applications	67
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1.4 – Feedback System

1.4.1 – Whether structured feedback received from all the stakeholders.

Students	Yes
Teachers	Yes
Employers	Yes
Alumni	Yes
Parents	Yes

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

Feedback Obtained
<p>Every department in the institute collects the feedback on various aspects from students, faculty members, employers, alumni, and parents through course end survey, program exit survey, employer survey and Department Advisory Board. After collecting the feedback from the stakeholders, the contents of feedback are analyzed and the important suggestions will be forwarded to the academic committees to make possible changes in the course content and structure for the design of next curriculum which will be ratified by the academic council. Feedback on career guidance facilities such as life skill development programmes and other placement related activities are also collected through Graduate Exit Survey to measure the satisfaction level of students and to identify the necessary steps for improvement. Feedback is also collected on institutional resources and services such as class room, laboratory and computer center facilities and also on other supporting facilities and services like library, sports and games and hostels. A consolidated result will be forwarded to the appropriate departments for necessary improvements.</p>

CRITERION II – TEACHING- LEARNING AND EVALUATION

2.1 – Student Enrolment and Profile

2.1.1 – Demand Ratio during the year

Name of the Programme	Programme Specialization	Number of seats available	Number of Application received	Students Enrolled
ME	Communication Systems	18	18	16

MCA	Computer Applications	60	80	56
MBA	Business Administration	120	75	59
BE	Mechanical Engineering	120	125	166
BTech	Information Technology	60	75	65
BE	Electrical and Electronics Engineering	60	80	74
BE	Electronics and Communication Engineering	120	125	137
BE	Computer Science and Engineering	120	120	136
BE	Civil Engineering	120	110	111
BE	Biomedical Engineering	60	80	57
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2.2 – Catering to Student Diversity

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

Year	Number of students enrolled in the institution (UG)	Number of students enrolled in the institution (PG)	Number of fulltime teachers available in the institution teaching only UG courses	Number of fulltime teachers available in the institution teaching only PG courses	Number of teachers teaching both UG and PG courses
2019	2528	827	184	38	24

2.3 – Teaching - Learning Process

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

Number of Teachers on Roll	Number of teachers using ICT (LMS, e-Resources)	ICT Tools and resources available	Number of ICT enabled Classrooms	Number of smart classrooms	E-resources and techniques used
246	246	10	58	2	6

[View File of ICT Tools and resources](#)

[View File of E-resources and techniques used](#)

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

The student mentoring system plays a vital role in the institution and the objectives are: • To develop effective communication and visibility between staff members and students. • To mentor students to meet the current industry requirements and seek training and career opportunities • To identify and address the problems of students in personal and academic background and provide the solutions • To encourage the students in advanced learning methodologies and make them to do projects relevant to their career prospects • To reduce

drop-out ratio • To encourage the students to participate in various co-curricular and extracurricular activities At the beginning of every Academic year, orientation sessions are organized for all students to understand the mentoring system. Academic Calendar is being shared with the students by the department. 15 students are assigned to each mentor and their profiles are maintained to track their progress. Academic and Personal Counselling is provided through mentoring. Frequent student interaction is done through one to one meeting, social networking sites, class committee, and other academic committees. The wards' performances are communicated to the parents regularly, and special counselling is also provided for both the students and parents. Students are highly motivated wherever necessary to participate in extra/ co-curricular activities and also to upgrade their skills to meet the current industry trends. Economically weaker students are guided to obtain a scholarship from the college, government, and various trusts. Special coaching classes are given for slow learners. The outcome of the mentoring system in the current year • Significant improvement in the teacher student relationship • A progression in Students' participations and awards in co-curricular and extracurricular activities including women empowerment. • Placed Students in high profile companies • Pursuing their master's in prestigious institutes in and around the world • Shown outstanding performance in sports tournaments • Organized different events of intercollegiate district sports and games championship.

Number of students enrolled in the institution	Number of fulltime teachers	Mentor : Mentee Ratio
3355	246	1:14

2.4 – Teacher Profile and Quality

2.4.1 – Number of full time teachers appointed during the year

No. of sanctioned positions	No. of filled positions	Vacant positions	Positions filled during the current year	No. of faculty with Ph.D
246	235	11	11	56

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

Year of Award	Name of full time teachers receiving awards from state level, national level, international level	Designation	Name of the award, fellowship, received from Government or recognized bodies
2019	Mr.G.Ganesan@subramanian	Assistant Professor	Young Scientist Award, Society for Aerospace Mechanical Professionals
2019	S.Manikandan	Assistant Professor	Palo Alto Cyber Security
2020	S.Manikandan	Assistant Professor	Sales Force Learnathon
2020	S.Manikandan	Assistant Professor	UiPath Academic Coordinator
2019	Dr.J.Vanitha	Associate Professor	Elite, NPTEL
2019	Dr.P.Arunkumar	Assistant Professor	Elite, NPTEL
2020	A.Hema	Assistant Professor	Elite, NPTEL

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2.5 – Evaluation Process and Reforms

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

Programme Name	Programme Code	Semester/ year	Last date of the last semester-end/ year-end examination	Date of declaration of results of semester-end/ year- end examination
BE	103	VII/IV	19/10/2019	29/01/2020
BE	103	III/II	20/11/2019	18/12/2019
BE	103	V/III	20/11/2019	18/12/2019
BE	103	VIII/IV	Nill	12/04/2021
BE	103	IV/II	Nill	23/10/2020
BE	103	VI/III	Nill	23/10/2020
BE	104	III/II	21/11/2019	18/12/2019
BE	104	V/III	21/11/2019	18/12/2019
BE	104	VII/IV	04/12/2019	21/09/2020
BE	104	IV/II	Nill	23/10/2020
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2.5.2 – Average percentage of Student complaints/grievances about evaluation against total number appeared in the examinations during the year

Number of complaints or grievances about evaluation	Total number of students appeared in the examination	Percentage
1065	3355	31.74

2.6 – Student Performance and Learning Outcomes

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

<http://coe.egspec.org>

2.6.2 – Pass percentage of students

Programme Code	Programme Name	Programme Specialization	Number of students appeared in the final year examination	Number of students passed in final year examination	Pass Percentage
103	BE	Civil Engineering	108	91	84
104	BE	Computer Science and Engineering	124	106	85
105	BE	Electrical and Electronics Engineering	69	58	84
106	BE	Electronics and Communication Engineering	93	77	83
205	BE	Information	63	54	86

		Technology			
114	BE	Mechanical Engineering	136	108	79
CA	MCA	Computer Applications	67	67	100
BA	MBA	Business Administration	67	66	99
CP	ME	Computer Science and Engineering	10	10	100
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2.7 – Student Satisfaction Survey

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

http://coe.egspec.org/student_satisfaction_survey.html

CRITERION III – RESEARCH, INNOVATIONS AND EXTENSION

3.1 – Promotion of Research and Facilities

3.1.1 – The institution provides seed money to its teachers for research

Yes
Name of the teacher getting seed money
Dr.MANOJ KUMAR MISHRA
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3.1.2 – Teachers awarded National/International fellowship for advanced studies/ research during the year

Type	Name of the teacher awarded the fellowship	Name of the award	Date of award	Awarding agency
National	S.Manikandan	Palo Alto Cyber Security	01/10/2019	Palo Alto
National	S.Manikandan	Sales Force Learnathon	04/12/2019	Sales Force
National	S.Manikandan	UiPath Academic Coordinator	03/01/2020	UiPath
International	S.Palani Murugan	Microsoft Innovative Educator Expert	02/09/2020	Microsoft
International	M.Chinnadurai	Best Innovative Engineer	20/05/2020	FCCP
International	S.Kannan	Innovative	20/05/2020	FCCP

Technological
Award

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3.2 – Resource Mobilization for Research

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

Nature of the Project	Duration	Name of the funding agency	Total grant sanctioned	Amount received during the year
Major Projects	730	Indian Council for Social Science Research (ICSSR-IMPRESS)	1490000	Nil
Major Projects	730	Tamil Nadu State Council for Science and technology (TNSCST)	375000	Nil
Major Projects	730	Department of Science and Technology (DST) (NCSTC)	2130000	Nil
Students Research Projects (Other than compulsory by the University)	180	Tamil Nadu State Council for Science and technology (TNSCST)	10000	Nil
Students Research Projects (Other than compulsory by the University)	365	Indian Society for Technical Education (ISTE)	10000	Nil
Students Research Projects (Other than compulsory by the University)	180	Tamil Nadu State Council for Science and technology (TNSCST)	375000	Nil
Students Research Projects (Other than compulsory by the University)	365	Indian Society for Technical Education (ISTE)	10000	Nil
Students Research Projects (Other than compulsory by the University)	365	Indian Society for Technical Education (ISTE)	10000	Nil

Major Projects	1095	DST-SERB	2862580	Nil
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3.2.2 – Number of ongoing research projects per teacher funded by government and non-government agencies during the years

4

3.3 – Innovation Ecosystem

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

Title of workshop/seminar	Name of the Dept.	Date
Entrepreneurship Awareness Camp [DST NIMAT Project]	CSE, IT, EEE, ECE, MECH, CIV IL, MCA, MBA	19/09/2019
Faculty Development Program [DST NIMAT Project]	CSE, IT, EEE, ECE, MECH, CIV IL, MCA, MBA	25/11/2019
Faculty Development Program	CSE, IT, EEE, ECE, MECH, CIV IL, MCA, MBA	25/11/2019
EAC Camp	CSE, IT, EEE, ECE, MECH, CIV IL, MCA, MBA	12/03/2020
Seminar on Ground Water Management and Conservation	CSE, IT, EEE, ECE, MECH, CIV IL, MCA, MBA	11/03/2020
Entrepreneur Awareness Camp	CSE, IT, EEE, ECE, MECH, CIV IL, MCA, MBA	27/07/2019
Team Trust Building	CSE, IT, EEE, ECE, MECH, CIV IL, MCA, MBA	17/08/2019
Two days Dissemination of Technology on Value added Sea Product	CSE, IT, EEE, ECE, MECH, CIV IL, MCA, MBA	27/09/2019

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

Title of the innovation	Name of Awardee	Awarding Agency	Date of award	Category
Coin Transfer Machine	Mr.S.Manikandan	AICTE Smart India Hackathon	13/02/2020	Student Innovation
Smart Wheel Chair	Mr.S.Manikandan	AICTE Smart India Hackathon	25/05/2020	Student Innovation
Microsoft Innovative Educator Expert	Mr.S.Palani Murugan	Microsoft	13/06/2019	Student Innovation
Best Innovative Engineer	Dr.M.Chinnadurai	FCCP	20/05/2020	Innovation
Innovative Technological Award	Dr.S.Kannan	FCCP	20/05/2020	Innovation

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

Incubation Center	Name	Sponsored By	Name of the Start-up	Nature of Start-up	Date of Commencement
Innovation Entrepreneurship Development Centre [IEDC]	Management Sponsored (EGSPEC)	Management Sponsored (EGSPEC)	Dream Tech Software	Software Development	15/09/2020

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3.4 – Research Publications and Awards

3.4.1 – Ph. Ds awarded during the year

Name of the Department	Number of PhD's Awarded
MECH	1
EEE	1
SAH	4

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

Type	Department	Number of Publication	Average Impact Factor (if any)
International	IT	6	1
International	MCA	1	1
International	ECE	2	1
International	MECH	7	1
International	EEE	5	1
International	CIVIL	4	1
International	MBA	1	1
International	CSE	3	1
International	SAH	17	1
National	MBA	1	1

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

Department	Number of Publication
SAH	1
EEE	1
MBA	1
CIVIL	1
MECH	1
ECE	1
MCA	1
IT	1

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3.4.4 – Patents published/awarded during the year

Patent Details	Patent status	Patent Number	Date of Award
Portable Egg Quality Assessment and Monitoring System using IOT	Published	202041047668	13/01/2020
End to End Food Safety Quality Control System	Published	202041036571	11/09/2020
A method for subject matter detection and data hunting	Published	202041022887	12/06/2020
A novel Multiple-Access Edge Computing technique for ultra-reliable low-latency Communication (URLLC), and massive Internet of Things (IoT) in 5G networks	Published	202041014796	15/05/2020

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

Title of the Paper	Name of Author	Title of journal	Year of publication	Citation Index	Institutional affiliation as mentioned in the publication	Number of citations excluding self citation
Empowering Artificial intelligence Through Machine Learning	Dr.S.Ram abalan	SN Applied Sciences	2019	2	E.G.S Pillay Engineering College, Nagapattinam	2
Chatter Control and Stability Analysis in Cantilever Boring Bar Using FEA Methods	Dr. S. C hockalingam	Materials Today: Proceedings	2020	5	E.G.S Pillay Engineering College, Nagapattinam	4

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

Title of the	Name of	Title of journal	Year of	h-index	Number of	Institutional
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Paper	Author		publication		citations excluding self citation	affiliation as mentioned in the publication
Intelligent and Deep Learning Approach OT Measure E-Learning Content in Online Distance Education	S. Manikandan	The Online Journal of Distance Education and e-Learning	2019	16	7	E.G.S. Pillay Engineering College
Artificial Intelligence in Education Using Gaming and Automation with Courses and Outcomes Mapping	S. Manikandan	Empowering Artificial intelligence Through Machine Learning	2020	2	2	E.G.S. Pillay Engineering College
Study of mechanical and thermal behaviors of ZEA-coir hybrid polyester composites	S. Chockalingam	Materials today proceedings	2019	1	1	E.G.S. Pillay Engineering College
Experimental design and analysis of domestic windmill blades	S. Krishnamohan	IJMPERD	2019	1	1	E.G.S. Pillay Engineering College
Optimization of friction welding parameters in dissimilar materials using Taguchi's method	S. Krishnamohan and N.Ramanujam	International Journal of Advanced Science and Technology	2019	1	1	E.G.S. Pillay Engineering College

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

Number of Faculty	International	National	State	Local
Presented papers	10	7	4	13
Attended/Seminars/Workshops	42	12	5	49

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3.5 – Consultancy

3.5.1 – Revenue generated from Consultancy during the year

Name of the Consultan(s) department	Name of consultancy project	Consulting/Sponsoring Agency	Revenue generated (amount in rupees)
IT	Diesel Billing and Incentive calculator	Afeshee Travel	55000
IT	Web and Mobile development for various centres	Sure Soft Systems	55000
MECH	ICE Plant Renovation	PNR ICE PLANT	200000

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3.5.2 – Revenue generated from Corporate Training by the institution during the year

Name of the Consultan(s) department	Title of the programme	Agency seeking / training	Revenue generated (amount in rupees)	Number of trainees
English/SAH	Simplified Technical English	NGO	43500	10
English/SAH	Technical Writing	NGO	40000	10

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3.6 – Extension Activities

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

Title of the activities	Organising unit/agency/ collaborating agency	Number of teachers participated in such activities	Number of students participated in such activities
Road safety awareness program	NSS	5	100
World yoga day program	NSS	5	100
Tree plantation program at our college campus	NSS	5	100
World environment day	NSS	5	100

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

Name of the activity	Award/Recognition	Awarding Bodies	Number of students Benefited
Sales Force	Sales Force Learnathon Institute Recognition	Sales Force	120
AWS	AWS Cloud Day	AWS	55
No file uploaded.			

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

Name of the scheme	Organising unit/Agency/collaborating agency	Name of the activity	Number of teachers participated in such activities	Number of students participated in such activities
Aids Awareness	EGSPEC	AIDS awareness rally	20	500
Swachh Bharat	EGSPEC	Clean India awareness camp	5	100
View File				

3.7 – Collaborations

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

Nature of activity	Participant	Source of financial support	Duration
TCS iON	145	TCS	30
Oracle PL/SQL	60	MOU with Oracle	15
Oracle Java	60	MOU with Oracle	15
UiPath Skillathon	55	MOU with UiPath	30
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3.7.2 – Linkages with institutions/industries for internship, on-the- job training, project work, sharing of research facilities etc. during the year

Nature of linkage	Title of the linkage	Name of the partnering institution/ industry /research lab with contact details	Duration From	Duration To	Participant
Internship	Machine operator	Brakes India Pvt Ltd, Polambakkam	26/12/2019	25/03/2020	Adhithiyan G R
Internship	Machine operator	Brakes India Pvt Ltd, Polambakkam	26/12/2019	25/03/2020	Anandhan M

Internship	Machine operator	Brakes India Pvt Ltd, Polambakkam	26/12/2019	25/03/2020	Babinath K
Internship	Machine operator	Brakes India Pvt Ltd, Polambakkam	26/12/2019	25/03/2020	Dharmendhiran R
Internship	Machine operator	Brakes India Pvt Ltd, Polambakkam	26/12/2019	25/03/2020	Dileep R
Internship	Machine operator	Brakes India Pvt Ltd, Polambakkam	26/12/2019	25/03/2020	Hariharan M
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3.7.3 – MoUs signed with institutions of national, international importance, other institutions, industries, corporate houses etc. during the year

Organisation	Date of MoU signed	Purpose/Activities	Number of students/teachers participated under MoUs
UiPath	25/06/2019	UiPath Skillathon	80
HI-Tech electronics	12/02/2017	Workshop	88
Q-TEK	12/02/2017	Workshop	81
South Eastern University of Sri Lanka	01/11/2017	Research and Development of Project	47
Multimedia University, Malaysia	22/08/2016	Workshop, Conference, Seminar	47
South Eastern University of Sri Lanka	31/10/2017	Conference	88
Multimedia University, Malaysia	22/08/2016	Seminar	88
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CRITERION IV – INFRASTRUCTURE AND LEARNING RESOURCES

4.1 – Physical Facilities

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

Budget allocated for infrastructure augmentation	Budget utilized for infrastructure development
608.99	596.36

4.1.2 – Details of augmentation in infrastructure facilities during the year

Facilities	Existing or Newly Added
Number of important equipments	Existing

purchased (Greater than 1-0 lakh) during the current year	
Value of the equipment purchased during the year (rs. in lakhs)	Newly Added
Video Centre	Existing
Seminar halls with ICT facilities	Newly Added
Classrooms with LCD facilities	Newly Added
Seminar Halls	Newly Added
Laboratories	Existing
Class rooms	Newly Added
Campus Area	Existing
View File	

4.2 – Library as a Learning Resource

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

Name of the ILMS software	Nature of automation (fully or partially)	Version	Year of automation
AUTOLIB SOFTWARE	Fully	7.2	2007

4.2.2 – Library Services

Library Service Type	Existing		Newly Added		Total	
Text Books	50030	19387123	1030	366424	51060	19753547
Reference Books	822	156180	Nill	Nill	822	156180
e-Books	25	9500	Nill	Nill	25	9500
Journals	160	500000	99	281500	259	781500
e-Journals	507	1729902	Nill	Nill	507	1729902
Digital Database	Nill	13570	Nill	13570	Nill	27140
CD & Video	883	Nill	Nill	Nill	883	Nill
Others(s pecify)	1246	263722	Nill	Nill	1246	263722
View File						

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

Name of the Teacher	Name of the Module	Platform on which module is developed	Date of launching e-content
All Faculty Member	LMS	Google CLASS room	01/07/2019
All Faculty Members	LMS	you tube	01/07/2019

All faculty members	LMS	egspec digital resources	01/07/2019
View File			

4.3 – IT Infrastructure

4.3.1 – Technology Upgradation (overall)

Type	Total Computers	Computer Lab	Internet	Browsing centers	Computer Centers	Office	Departments	Available Bandwidth (MBPS/GBPS)	Others
Existing	528	8	100	31	8	3	8	100	0
Added	100	0	0	0	0	0	0	0	0
Total	628	8	100	31	8	3	8	100	0

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

100 MBPS/ GBPS

4.3.3 – Facility for e-content

Name of the e-content development facility	Provide the link of the videos and media centre and recording facility
E-Content Management System	https://econtent.egspec.org

4.4 – Maintenance of Campus Infrastructure

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

Assigned Budget on academic facilities	Expenditure incurred on maintenance of academic facilities	Assigned budget on physical facilities	Expenditure incurred on maintenance of physical facilities
58.32	57.12	550.67	539.24

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

Maintaining and utilizing physical, academic and support facilities - Class Rooms/Laboratory The physical facilities such as Laboratories, Classrooms, Library and Sports Complex are maintained by House Keeping under the supervision of Nonteaching Staff / Floor Supervisors. Utilization of the classrooms is facilitated to the students in working days and it is also made available to the other governmental / nongovernmental organizations for conducting exams during Vacations and holidays. The masonry and plumbing works are carried out with local skilled persons and the expenditure are incurred from Maintenance. Lab equipment's are serviced by manufacturers and service personnel during summer and winter vacations. Stock registers are maintained regularly. House Keeping

1. Checking water availability in Toilets every hour
2. Checking Drinking water availability every day
3. Cleaning Class Rooms, Labs, Veranda, Office Room, Staff Rooms
4. Cleaning of Toilets every day
5. Cleaning the campus every week
6. Checking Furniture's in Class Rooms and Office every month
7. Checking Building cracks throughout the campus
8. Checking Electrical, Plumbing, Waterline and Sewage line every month

Computers The college has an adequate computer with high speed internet connections and software's, distributed in different locales like departments laboratories, library and office. Computers are maintained by internal Staff members. Each

laboratory has an assistant, who ensures proper usage of the computers and hazardous equipment's are handled with care. Library The working hours of the library is from 9.00 a.m to 6.00 p.m on working days and from 9.30 a.m to 4.00 p.m. on holidays. Maintenance activities are made periodically to keep library clean. The activities like fumigation, preservation of books from insects, dusts and shelving of reading materials promptly on regular basis by the housekeeping /Library Staff. Training Classes Special Trainings by experts for competitive examination such as GRE, TOEFL, GATE and Placement Training to students for competitive exams, to motivate them for debates/ group discussion, and for placement. Sports Complex/ Activities Through best practices, the students outshine in the field of sports. Excellent infrastructure is provided for sports with 400 meter running track and Synthetic Courts for indoor sports activities. The play field are maintained by markers and the field equipment like post, umpire stand, score boards are also maintained regularly. The college uses laborer on daily wages to keep the play field clean and condition during the tournaments and sports day celebrations. The markers control the play equipment like ball, bat, net etc., provided to the students and to collect it back safely and register them in the Equipment movement register Power Supply and Electrical Maintenance Power supply is maintained by regular staff through proper system captive genets as backup for 24hours. NSS, YRC maintain certain areas of the college clean for planting Saplings. Certain areas are allotted for departments.

<http://www.egspec.org/infrastructure.html>

CRITERION V – STUDENT SUPPORT AND PROGRESSION

5.1 – Student Support

5.1.1 – Scholarships and Financial Support

	Name/Title of the scheme	Number of students	Amount in Rupees
Financial Support from institution	Post matric scholarship for Schedule caste students	833	5564850
Financial Support from Other Sources			
a) National	BC scholarship for UG students	817	3766650
b)International	First graduate scholarship (INCLUDING LE)	479	11577500
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5.1.2 – Number of capability enhancement and development schemes such as Soft skill development, Remedial coaching, Language lab, Bridge courses, Yoga, Meditation, Personal Counselling and Mentoring etc.,

Name of the capability enhancement scheme	Date of implemetation	Number of students enrolled	Agencies involved
Language and communication skills	29/06/2019	325	Training and placement cell, EGSPEC
Soft skills	29/06/2019	214	Training and placement cell, EGSPEC
Physical fitness and games	29/06/2019	325	Physical director, EGSPEC

EDC based programme (Entrepreneur awareness programme)	16/12/2019	73	EDC Cell
Yoga	29/06/2019	325	Yoga master from Nagapattinam
Language and communication skills lab	29/06/2019	128	Training and placement team collaborated with infosys and TCS agencies
Soft skills lab	29/06/2019	128	Training and placement cell, EGSPEC
View File			

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

Year	Name of the scheme	Number of benefited students for competitive examination	Number of benefited students by career counseling activities	Number of students who have passed in the comp. exam	Number of students placed
2019	TCS NQT Training	Nil	75	Nil	Nil
2019	Placement Training Phase-I for final year CSE, IT, ECE, MCA, EEE	Nil	150	Nil	Nil
2019	Awareness program on Engineering Placement and Competitive exams (First Year)	Nil	550	Nil	Nil
2019	HR Industry Interaction-IVTL	Nil	80	Nil	Nil
2019	Company Specific Training -JUSPA	Nil	12	Nil	Nil
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5.1.4 – Institutional mechanism for transparency, timely redressal of student grievances, Prevention of sexual harassment and ragging cases during the year

Total grievances received	Number of grievances redressed	Avg. number of days for grievance redressal
15	15	4

5.2 – Student Progression

5.2.1 – Details of campus placement during the year

On campus			Off campus		
Name of organizations visited	Number of students participated	Number of students placed	Name of organizations visited	Number of students participated	Number of students placed
26	1679	454	12	199	28
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5.2.2 – Student progression to higher education in percentage during the year

Year	Number of students enrolling into higher education	Programme graduated from	Department graduated from	Name of institution joined	Name of programme admitted to
2019	4	BE	CIVIL	E.G.S.Pillay Engineering college	ME (Environmental Engineering)
2019	2	B.E	CSE	E.G.S. Pillay Engineering college	M.E (Computer Science and Engineering)
2019	5	MECH	MECHANICAL	E.G.S. Pillay Engineering college	ME (Manufacturing)
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5.2.3 – Students qualifying in state/ national/ international level examinations during the year (eg:NET/SET/SLET/GATE/GMAT/CAT/GRE/TOFEL/Civil Services/State Government Services)

Items	Number of students selected/ qualifying
No Data Entered/Not Applicable !!!	
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5.2.4 – Sports and cultural activities / competitions organised at the institution level during the year

Activity	Level	Number of Participants
Adithya TV Program	National Level	4
Essay writing	National Level	30
Thiruvalluvar Manavar Tamil sangam	National Level	25
Drawing competition	National Level	30
Rangoli competition	National Level	10
Poetry competition	National Level	20
CHESS FOR WOMEN (WINNER)	National Level	6

BADMINTON FOR MEN (WINNEER)	National Level	7
CHESS FOR MEN (THIRD PLACE)	National Level	6
VOLLEY BALL MEN (THIRD PLACE)	National Level	14
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5.3 – Student Participation and Activities

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

Year	Name of the award/medal	National/ Internaional	Number of awards for Sports	Number of awards for Cultural	Student ID number	Name of the student
2019	Drawing Compeition - Consumer Food Corpo ration (First Place)	National	1	Nil	E18ITR045	S. Sri A bidharsini
2019	Speech C ompetition - Forest Department (Third Place)	National	1	Nil	E18ITR045	S. Sri A bidharsini
2019	Winner	National	1	Nil	E18BAR066	S.Subitha
2019	Winner	National	1	Nil	E17CAL353	R.Gunava thi
2019	Winner	National	1	4	E17CSR122	N.Vijaya lakshmi
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5.3.2 – Activity of Student Council & representation of students on academic & administrative bodies/committees of the institution (maximum 500 words)

College creates a platform for the active participation of the students in the various academic administrative bodies including other activities. This empowers the students in gaining leadership qualities, rules, regulations and execution skills. Each council has a representative council, which is called Class Committee and includes student members too. The student members bring forward the views and suggestions of the entire class with respect to the faculty, subjects, syllabus and other things related to the class. The composition of student members is of one topper, one average and one slow learner of each class are nominated as class representatives, for all the sections from I Year to Final Year. The Student Council helps students share ideas, interests, and concerns with lecturers and Head of department. They often conduct wide activities, including social events, community projects, helping people in need and college reform. Various programs like paper presentations, workshops and seminars are organized by these bodies every year. Five student committees such as Women Development cell, Grievance and Redressal cell, Sexual Harassment committee, Discipline Anti-Ragging Committee, and

Innovation Club are established in college. The funding for various activities of the internal college bodies is provided by the College Management. The student association plays a dominant role in many activities related to Special Lectures by experts, Seminars, Workshops, Symposium, National Level Conference and Intercollegiate meet to develop the personality and skills of the student's ability. There are more than 30 clubs available in our college 1. NSS 2. Women in development cell 3. Solar energy club 4. Automobile club 5. HVAC club 6. Maintenance and Safety club 7. Design club 8. Technical visit club 9. Material and manufacturing club 10. Engineering club 11. Robotics club 12. Digital systems 13. Electronic innovators 14. Satellite club 15. Intelligent vision 16. Aptitude Avengers 17. Simulator club 18. Go green club 19. Embedded system club 20. House stuff club 21. Valar Tamil Peravai 22. Science forum 23. Change makers club 24. Creative mind club 25. Communicare club 26. Just move yoga 27. Web Designing 28. Programmers Paradise club 29. Networking club 30. Learners and Earners Club

5.4 – Alumni Engagement

5.4.1 – Whether the institution has registered Alumni Association?

Yes

The alumnus forms the major strength of the institution. The Alumni Association was formed in the year 2007 under the name " E.G.S.Pillay Engineering College Alumni Association" with the Reg. No: 43/10.06.2015. The alumni meet is conducted once in a year, where the alumni from different branches of the undergraduate and postgraduate programs share their views and give suggestions for the betterment of their junior students. The alumni meet is hosted by the alumni association. Such meetings are mutually beneficial for the Institution and the alumni. This provides an opportunity for the alumni to meet their friends and act as a bridge for the faculty to share their experience, knowledge and insights. The alumni visit the institution to deliver Guest lectures and seminars for the students in their areas of expertise and motivate the young minds. Successful entrepreneurs from various fields Alumnus are invited to talk on their success. The alumni also help the final year students of the various streams of engineering to get their project placements and summer internship in their companies to assist and get it through their reference. They also assist the students for placement in public and private sectors and the regular alumni association meetings will help the students to get successful placement.

5.4.2 – No. of registered Alumni:

505

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

715680

5.4.4 – Meetings/activities organized by Alumni Association :

Report of 7th Alumni meet - 2019-20: E.G.S.Pillay Engineering College Alumni Association is a registered body and has members with active participation in organizing the Alumni meet religiously by inviting all the alumni. The norms are adhered, audited and reports are submitted to the respective authorities. The Association actively organizes the regular meets. The Alumni Meet for the year 2019-2020 was conducted on 8th December 2019 through Online Zoom meet due to the pandemic situation there was a delay in organizing the meet and considering the government rules it was conducted on a virtual platform. In this meet, the more no of Aluminies of E.G.S.Pillay Institutions happily participated, shared their evergreen college day moments. The Alumni President delivered the welcome address to the virtually gathered Alumni. One of our

distinguished Alumni Mr.N. Elayaraja, Div manager,Dimler india pvt ltd,Chennai, honoured the function with his virtual presence and thought provoking speech that instilled the zeal in the gathered minds. He also shared his experience and thank the college management. There were around 500 alumni enrolled and 220 have participated in the meet. In this Alumni Meet, the Secratery of E.G.S.Pillay Group of Institutions Shri. S.Parameswaran, Principal Prof.S.Ramabalan, COE – Prof. M.Chinnadurai, Heads of various departments and faculty members too enrich the programme. In this meet, lot of Alumnus of E.G.S.Pillay Institutions happily participated, shared their Memories. The alumni meet concluded with the proposed activities for the forthcoming academic year. The activities include financial help to the students in need, infrastructure development, academic guidance, internship facilities and technical support. The alumni also were interested to support the students for their online internships, to sponsor for the online courses, placement support through career enrichment activities. They were also ready to help students with entrepreneur interest by conducting entrepreneurship awareness program.

CRITERION VI – GOVERNANCE, LEADERSHIP AND MANAGEMENT

6.1 – Institutional Vision and Leadership

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

The college supports participative management at various levels. Participative management enables all the stakeholders including management representatives, principal, staff and students to involve in the process of problem analysis, strategy development, and solution implementation. It is one of the primary cultural features of the college. Each stakeholder provides positive ideas on the operational activities of the college. Management representatives involve in enhancing quality and welfare aspects of the college. Principal drives all the academic and nonacademic activities through HODs and faculty members. Administrative and academic committees are formed in which students and faculties play a vital role in decision making process. Meetings are organized every week by the Principal with HoDs, where policies are framed and decisions are made. The minutes of the meetings are circulated to all the staff. The management is also open to the ideas and suggestions given by the faculties for implementing the framed policies. The Principal leads the academic, administrative and other activities related to the students. He has full authority on academic activities and establishments of different committees. He delegates different roles to the members in the committee to act autonomously. The institution encourages the concept of decentralization and actively pursues the implementation in the overall schema. HoDs play a central role in decentralizing the resources by scheduling the activities of the department and assigning responsibilities to the department faculties. They have functional autonomy to decide on the various departmental activities by implementing them with the involvement of the faculty members. They have privileges in proposing the budget, framing timetable, subject allocation, assigning department coordinators for various committees, conduction of national/international conferences, organizing seminars and workshops, arranging Industrial visits, In Plant trainings and help in manifesting the vision and mission. Faculty members are involved in the purchase and maintenance of equipment and consumables. One of the objectives is to mentor the students as productive citizens for the society at large as participative management. The mentoring system provides a guide line to the students was conceived and implemented with the participation of the faculty members. The mentoring system comprises with different steps. The initial step is to allocate a set of students to each faculty. Each and every faculty maintains the record of complete students' profile. A schedule is put in effect periodically for monitoring their performance. In addition to curriculum, the extracurricular and cocurricular activities are also considered

for mentoring.

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

Yes

6.2 – Strategy Development and Deployment

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

Strategy Type	Details
Human Resource Management	<p>To ensure smooth functioning of the organization, timely recruitment of faculty and non-teaching staff is mandatory. Recruitment and selection of the faculty members are based on the guidelines given by AICTE, New Delhi. The performance of the faculties and non-teaching staff members is evaluated every year through self-appraisal reports and appropriate endorsements are made by the concerned HoDs. Grievance and redressal cell is in active functioning, there by grievances posted by faculty, staff and student are being immediately solved and suitable solutions are provided. Faculty members are recognized for their contributions and achievements during the Annual day programme. The moral and spiritual values are encompassed among the students through ethics classes, yoga meditation classes, foundation courses and interfaith dialogue. Guest Lectures are arranged in recent technologies by best academicians and industrialists from reputed organizations. Faculty development programmes are organized for upgrading the knowledge of our faculty members. Faculties and students are encouraged to attend workshops conducted by various institutions. Hands on training programmes are organized to shape the students in current technologies. Value added, soft skills development, and aptitude skills development courses are provided to the students to improve their professional skills. Students are employed in various reputed industries and MNC's through on campus and off campus placement drives. The HoDs and faculties are responsible to ensure the students to go to internships.</p>
Library, ICT and Physical Infrastructure / Instrumentation	<p>The college has a fully computerized library system with adequate volumes of books on different disciplines, with separate section for the international</p>

and national periodicals, to provide effective learning resources to the library users and ensure easy, quick and efficient access to desired data.

The students are provided with a library period in their weekly time table to enhance knowledge. Apart from this, the library is kept open from 8.00 A.M. to 7.00 P.M. Staff members and students use the library after their class hour. Every year Central library is added with new books and journals. Every department has individual LCD projector, system with internet connection. Classrooms, seminar halls and conference rooms are equipped with computers and ceiling mounted projectors, audio system Wi-Fi, and screen. Round the clock Wi-Fi connectivity provided for faculty, staff, and students. All the Laboratories are well equipped. Each computer lab is equipped with 70 computer terminals with high end configurations.

Research and Development

The college has a separate Research and Development Cell which take up the activities related to Research and Innovation. The committee is headed by the Principal with faculty members having Ph.D. qualification as its member with the coordination of Dean RD. The institution has been recognized as Research Centre for the Department of CSE, ECE, MECH, and CIVIL. The faculty members pursuing their Ph.D programme are instructed to setup their experimental work in the college itself to promote research attitude among students. Fifteen days of on duty leave is offered per semester to the faculty members for pursuing their research activities. Separate budget has been allocated every year for the purpose of procuring research equipment. Faculty members are motivated to (i) publish research papers in reputed journals (SCI, Scopus indexed journals) with high impact factor and a cash incentive is also offered by the management. (ii) apply research Proposals to various funding agencies like AICTE, DST, UGC, CSIR, MNRE, DRDO, etc. (iii) submit proposals for conducting seminars, conferences and workshops (iv) collaborate with the industry for research projects (v) to identify and foster the noteworthy pioneering ideas

and projects that can be developed and scaled to the next level of operation, in order to get a patent and (vi) apply for Guide Recognition under Anna University, Chennai. Publications of Research findings in Conference and Journals are mandatory for PG. The inspirational thinking of the students is recognized by awarding Best Student Projects every year.

Examination and Evaluation

End semester examinations are conducted under the supervision of the Controller of Examinations. The central valuation is carried out in the office of the Exam Control Division itself and the results are declared after the approval of the concerned evaluation committee of the college. The performance of the students is assessed by conducting Continuous Assessment Test and End Semester Examination. At the beginning of each Semester, students are cognizant about the evaluation methods. One of the faculty members from each department is act as an Internal Controller of Examination to regulate our Examination process better. End Semester Examination question papers are being set and evaluated by External Experts. Detailed key for evaluation is being prepared by internal faculty members. Evaluation of answer scripts are carried out by both internal and external examiners. The candidates are entitled for the photocopy and revaluation of the answer script. The evaluation of final year project (for UG/PG students) is done in a transparent fashion with the student progress, marks allotted and any issues being documented in the Project review sheet after each periodic review. The Project review sheet is made available to the student immediately after the review so that he/she can go through it and see the marks obtained as well as the comments of the reviewers. Final Grade is awarded to the student by combining the Internal marks and Semester marks. Automation of the Examination Cell provide a guarantee for timely declaration of results and conducting supplementary/arrear examination for failed students to keep the Academic calendar on schedule.

Teaching and Learning

For every semester course plans are prepared by the faculty member and

verified by the HoD in line with the syllabus and scheme of examination followed by EGSPEC. A High quality course material is prepared and disseminated to the students by the faculty members in order to reinforce the teaching and learning process. This process is also monitored by the HoD and the feedback is collected from the students. The class committee is established for each semester. It contains a Chairman (an experienced faculty member doesn't handle any course to the class), faculty advisors and 9 student's representatives. Class committee meeting has been organized regularly to collect the grievance about teaching and learning process. Faculty members have been stimulated to take part in faculty development programmes, workshops, and seminars for imparting deep knowledge in their domain. Problem-oriented assignments and case studies have been offered to students. Utilization of ICT tools helps the students understand the concepts clearly. Conducting communication skills development programme for students to promote their communication skills. Certificate courses, workshops, seminars on thirist areas by industry experts are regularly organized. NPTEL materials, which contain video lectures given by eminent professors, are provided for student access in the laboratory itself. Bridge courses are offered to the first year students and lateral students to understand the basics of engineering subjects. Awareness classes are offered to the students to appear for competitive exams. Maximizing the learning experience through online web seminar sessions like NPTEL. Practice of 5 minutes speech every hour to improve the communication skills. EGSPEC also provides the following facility to the students for their betterment: interactive modules like videos and presentations, personality development and soft skill programmes, Wi-Fi access, department library access, digital library facilities, coaching classes for slow learners, add-on courses, workshops, seminars on thirist areas, preplacement training classes and campus connect programmes.

Curriculum Development

The curriculum of each programme is

regularly revised, to support abreast of developments in the respective programme. The curricula and syllabi are revised every 3 years, and earlier if necessary, to include topics/courses that are of contemporary interest. The curricula are designed so that the courses focus major domain of the discipline. Furthermore, electives, industry offered courses etc., are aligned to those domains. The key objectives of the curricula at EGSPEC are to ensure (i) engineering education is experiential (ii) engineers are industry ready (industry offered courses) (iii) graduates' skills are future proofed (contemporary programming and design courses) (iv) outcomes based learning is implemented (v) conceptual rigor is reinforced (continuous curricular modernization via revisions) (vi) continuous self-learning is encouraged (NPTEL credits) and (vii) innovators/entrepreneurs are developed (prototyping semester and internship credits).

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

E-governance area	Details
Student Admission and Support	<p>In our college, there is a standard and established procedure of admission of students to engineering courses. We have to handover 65 of our total seats to the Anna University for the Government/general counselling process and the remaining 35 of students can be admitted through the management quota system. The general counselling includes those students who will be admitted on merit basis, to be decided from their marks in the school outgoing exams in their 12th standard, namely, in mathematics, physics and chemistry.</p> <p>The general counselling will be conducted by Anna University online. For admission in management quota, the standard procedure is the prospective students should register online in our college website and based on marks and other supporting criteria they will be selected. For getting bright students into our stream, we have the career guidance programme for the school students. There is also a project exposition for the school students in the S2T program. We also provide scholarships to meritorious students.</p> <p>We also admit meritorious, but</p>

economically weak students through several educational foundations, like the "Agaram Foundation" and the "Maatram Foundation", to name a few. Here, the entire expenses for the meritorious students and economically weak students, admitted through the merit counselling, are taken care of, for all the four years of their study in our campus, by these foundations.

Examination

Our examination system is one of the silver-linings in a cloud. This system is in place for so many years now and this year became the most challenging one as the examinations had to be conducted through the online mode for all the students in view of the pandemic, Covid-19. However, we did this successfully, this daunting task by holding exams at different online dates for all the students, giving first preference to the outgoing students. It has produced a highly successful result and we are in the process of maintaining our numero- uno position among all engineering colleges, in terms of Gold medals and pass percentage of marks by our brilliant students. Student attendance and mark statements is governed through online mode.

Planning and Development

Planning and development are carried out in a systematic way by forming committees and frequently discussing the developmental activities of our college. The formation and selection of committee members will be intimated through email and several whatsapp groups are formed for better communication and quick disposal of work allotted. This academic year has seen the completion of our new Library block and is waiting to be inaugurated. New research laboratories for various engineering and science departments are being planned in this academic year in order to establish Research Centres and Centre of Excellence. An 'incubation centre 'is being planned in this academic year. An innovation cell has come into existence and students and faculty members can now work round the clock as per their convenience, in order to bring out new innovative design and products. The entrepreneur development cell (EDC), which already exists in our college has been revamped

to cater to the needs of the students and the industry as well. 'Skill Rack' an online platform for practicing programming languages for the first-year engineering students also, has been introduced from this year in their regular class time-table itself. This will enable the students to learn more programming languages, other than those existing in their syllabus, to gain domain knowledge in the field of software and hardware practices. Students have been advised to take part in 'Hackathons' in large numbers and groups, and also in national competitions for automobile design, namely, the all-terrain vehicular design competition, besides other events. As on date, 21 clubs for staff/student's active participation is existing in our college and registration for these clubs is done online.

Administration

The College functions with EGovernance system at Government, Society and College level. Even though the college is established in a rural area, the institution tries its best to manage with latest tools of administration in hand. Using Smartphone's with social apps, like Gmail and WhatsApp faculty share the notes to students, communicate information, placement news, answer queries etc. It helps to provide a brief notice and reminder of any event, and other important happenings through the college WhatsApp Group for the smooth functioning. The college campus is Wi-Fi enabled, operating with solar cell backup and equipped with CCTV Cameras at every place of need. Educate (E-Academic process and Progressive Management System) is used for all academic activities through online mode.

Finance and Accounts

The role of computers in maintaining finance and accounts has come as a gift to this department which keeps a record of financial activities through book entries, all these years. E-governance has become the order of the day and to synchronize their activity with the Head and Trust offices is a challenging task. However, this financial year audit report has given an excellent report of our financial practices and

has even commended our activity as saying that, never have we seen such wonderful methods to maintain and upkeep of financial records of all transactions, in the colleges audited so far by us.". This was a statement made as a concluding remark by the auditors who came to inspect our financial state of affairs.

6.3 – Faculty Empowerment Strategies

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

Year	Name of Teacher	Name of conference/ workshop attended for which financial support provided	Name of the professional body for which membership fee is provided	Amount of support
2019	S.Shyam Sundar	National Building Code of India 2016 - IE Palghat	Nill	1880
2019	K.Kamalarani	National Building Code of India 2016 - IE Palghat	Nill	1880
2019	A.Pirakasam	National Building Code of India 2016 - IE Palghat	Nill	1880
2019	V.Ranjani	FDP on Introduction to Machine Learning	Nill	1100
2019	E. Elakkia	FDP on Object Oriented Analysis and Design	Nill	1100
2019	T. Ganesan	FDP on Object Oriented Analysis and Design	Nill	1100
2019	K. Kalaiivani	FDP on Python for Data science	Nill	1100

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

Year	Title of the professional development programme organised for teaching staff	Title of the administrative training programme organised for non-teaching	From date	To Date	Number of participants (Teaching staff)	Number of participants (non-teaching staff)
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		staff				
2019	Two days workshop on Implementation Assessment of Outcome Based Education	Nil	02/02/2019	03/02/2019	3	Nil
2019	Nil	Troubleshooting of electrical electronics equipment (TREE)	04/11/2019	08/11/2019	Nil	25
2019	Outcome based education	Nil	14/09/2019	15/09/2019	70	Nil
2019	FDP on Exam reforms	Nil	19/09/2019	Nil	100	Nil
2019	Implementation of OBE system documents Preparation for Tier I NBA	Nil	14/12/2019	Nil	65	Nil
2020	Implementation of outcome based education	Nil	02/02/2020	03/02/2020	100	Nil
2020	One-day technical seminar on E-waste and plastic awareness	One-day technical seminar on E-waste and plastic awareness	20/02/2020	Nil	6	2
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6.3.3 – No. of teachers attending professional development programmes, viz., Orientation Programme, Refresher Course, Short Term Course, Faculty Development Programmes during the year

Title of the professional development programme	Number of teachers who attended	From Date	To date	Duration
Remote Sensing and Digital Image Processing of Satellite Data	1	15/08/2019	15/10/2019	60

Structural Dynamics for Civil Engineers - SDOF Systems	1	15/08/2019	15/09/2019	30
Concrete Technology	1	15/07/2019	15/10/2019	90
Geo Technical Engineering Laboratory	1	15/07/2019	15/08/2019	30
Engineering Metrology	1	13/07/2019	23/10/2019	90
NPTEL AICTE FDP On Introduction To Machine Learning	1	07/05/2019	27/09/2019	140
Structural Analysis - I	1	07/01/2019	30/10/2019	190
NPTEL- Course design and instruction of Engineering Course	1	29/06/2019	14/09/2019	75
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6.3.4 – Faculty and Staff recruitment (no. for permanent recruitment):

Teaching		Non-teaching	
Permanent	Full Time	Permanent	Full Time
246	246	20	20

6.3.5 – Welfare schemes for

Teaching	Non-teaching	Students
EPF, Medical facilities, Transport, Tuition fee concession to the children, Conference and training support, Research related facilities, Salary advance/ Loan policy	EPF, Medical facilities, Transport, Tuition fee concession to the children, Work related facilities, Salary advance/ Loan policy	Scholarship schemes, awards for academic, cocurricular and extracurricular activities

6.4 – Financial Management and Resource Mobilization

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

The governance of the institution is reflective of an effective leadership in tune with the vision and mission of the institution. Auditing plays a prominent role in the smooth functioning of the Institution's financial performance. The internal audit team is instrumental in setting up the financial controls and systems. It has brought in a methodical and organized approach to evaluate and constantly improve the financial management, devise strategies for compliance with laws and regulations and overall financial control process. The scope of the internal audit programme has encompassed working of various compliances under appropriate laws and rules and regulations framed there under, sufficient

systems and procedures are in place for adherence of institutional policies, physical verification of assets, consumables, stores, inventory, spare parts, and other assets, proper books of accounts, vouchers along with supporting documents are maintained, confirmation of balances from debtors, creditors and other parties are obtained periodically at the end of the year and proper systems and procedures are in place for internal control at the various department levels. A well planned schedule of regular academic activities, new ventures, scholarships, functions and extracurricular activities is prepared by the academic team comprising of Management Representatives, Principal, Deans and Heads of Departments at the start of every academic year. This enables preparation of budgets as per the requirements and is open to slight modifications at the start of odd and even semesters. It has been a regular practice that the expenses of the activities are submitted to the Accounts officer at the closure of the ventures and planned activities by the committee allocated for the specific task of closing the accounts. Most of the transactions are through online and through other financial instruments. Internal Audit is performed and the reports are obtained before the conduct of the external audit, after the closure of the accounts. Taking into cognizance these observations, an extensive list of requirements is given for compliance and submissions to the Statutory Auditor for completing the auditing of the financial statements of the Institute and providing a realistic statement through his audit report that the books of accounts reflect a true and fair view of the operational activities and that the books of accounts reflect a true and fair view of the operational activities and the financial position of the Institute for the relevant financial year. During the Internal Audit, the accounts are regularized, to obtain confirmation for the credit balances, to collect documentary evidences in respect of payments, compliance of TDS, Statutory Formalities and Reconciliation of unit-wise balances with the Control Accounts and Bank Reconciliations. The copy of the audit report is preserved.

External Statutory Audit is conducted and the consolidated reports are submitted to the relevant authorities. Chartered Accountant of the Institute conducts regular accounts audit and certifies its Annual Financial statements. All Utilization Certificates are countersigned by the Chartered Accountant.

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

Name of the non government funding agencies /individuals	Funds/ Grnats received in Rs.	Purpose
No Data Entered/Not Applicable !!!		
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6.4.3 – Total corpus fund generated

21378100

6.5 – Internal Quality Assurance System

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

Audit Type	External		Internal	
	Yes/No	Agency	Yes/No	Authority
Academic	Yes	Resource person from NIT	Yes	IQAC
Administrative	Yes	ISO TUV NORD, AU representative	Yes	IQAC

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

There is no formal Parent Teacher Association in our college. Departments conduct Parents Teachers meetings annually or biannually and the Class coordinators update parents about the progress of their wards. In the event of Attendance defaulters or Discipline related issues, the concerned parents are called upon to intimate their wards absence from classrooms or indiscipline and warned about the possibility of not being allowed to sit for the ensuing examinations or being disallowed for admissions in the forthcoming year.

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

Library support staff attended a one week training program. Office staff have attended training for updation of administrative procedures. Laboratory staff have undergone training programme for Instrument Maintenance.

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

Regular meetings with various stakeholders such as members of Board of studies, Academic Council, COE, etc. are conducted for curriculum improvement. Regular audit will be conducted for the enhancement of academics. More involvement towards Research Development.

6.5.5 – Internal Quality Assurance System Details

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

6.5.6 – Number of Quality Initiatives undertaken during the year

Year	Name of quality initiative by IQAC	Date of conducting IQAC	Duration From	Duration To	Number of participants
2019	Regular meeting of Internal Quality Assurance Cell	24/09/2019	24/09/2019	Nil	20
2019	Developing Roadmap for the academic year 2019-2020	27/09/2019	27/09/2019	Nil	23
2019	Motivating all the faculty members to publish research articles in Scopus, UGC and web of science journals	27/09/2019	27/09/2019	Nil	246
2019	Faculty Development Program	25/11/2019	25/11/2019	07/12/2019	200

Nil	Team Trust Building	17/08/2019	17/08/2019	Nil	246
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CRITERION VII – INSTITUTIONAL VALUES AND BEST PRACTICES

7.1 – Institutional Values and Social Responsibilities

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

Title of the programme	Period from	Period To	Number of Participants	
			Female	Male
Sports competition for Girl students, female staff and male staff	26/02/2020	04/03/2020	138	15
Karate and yoga competition	26/02/2020	27/02/2020	85	Nil
Talent Show	28/02/2020	04/03/2020	963	40
Women's Day	07/03/2020	Nil	963	40
Guest Lecture scheme for Women Development	07/03/2020	Nil	963	40

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

Percentage of power requirement of the University met by the renewable energy sources
3.5 KW from Solar and 1.5 KW from Wind

7.1.3 – Differently abled (Divyangjan) friendliness

Item facilities	Yes/No	Number of beneficiaries
Physical facilities	Yes	3
Provision for lift	Yes	3
Ramp/Rails	Yes	Nil
Braille Software/facilities	Yes	Nil
Rest Rooms	Yes	3
Scribes for examination	Yes	1
Special skill development for differently abled students	Yes	3

7.1.4 – Inclusion and Situatedness

Year	Number of initiatives to address locational	Number of initiatives taken to engage with	Date	Duration	Name of initiative	Issues addressed	Number of participating students and staff
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	advantages and disadvantages	and contribute to local community					
2019	1	1	05/06/2019	1	World environment day	Tree plantation program at our college campus	100
2019	1	1	21/06/2019	1	World yoga day program	Health care	500
2019	1	1	02/08/2019	1	Road safety awareness program	Road safety awareness program at our college. RTO officers and other transport departments people create awareness.	100
2019	1	1	13/08/2019	1	Road safety awareness program	Road safety awareness program at new bus stand, Nagapattinam.	100
2019	1	1	20/08/2019	1	Swachh bharath rally and cleaning work program	Swachh bharath rally and cleaning work program at Nagapattinam Beach.	300
2019	1	1	29/09/2019	1	Fit india movement	Fit india movement moments program conducted	300
2019	1	1	09/09/2019	1	Voters awareness competition	Voters awareness various competitions	100

						ns conducted.	
2019	1	1	15/09/2019	1	Road cleaning work	Road cleaning work at out side campus of our college.	50
2019	1	1	24/09/2019	1	NSS day (Motivation and orientation program)	Motivation and orientation program conducted .	100
2019	1	1	30/09/2019	1	Helmet awareness program	Helmet awareness program conducted at our college auditorium .	500

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7.1.5 – Human Values and Professional Ethics

Title	Date of publication	Follow up(max 100 words)
GE6075-Professional Ethics in Engineering	02/12/2019	It gives a wide knowledge in morals, attitude, Ethical thinking, Social Responsibility, rights, global issues and Human Values
1701MGX01-Professional Ethics	02/12/2019	It gives a wide knowledge in morals, attitude, Ethical thinking, Social Responsibility, rights, global issues and Human Values
GE6075-Professional Ethics in Engineering	02/12/2019	It gives a wide knowledge in morals, attitude, Ethical thinking, Social Responsibility, rights, global issues and Human Values
1701MGX01-Professional Ethics	02/12/2019	It gives a wide knowledge in morals, attitude, Ethical thinking, Social Responsibility, rights, global issues and Human

7.1.6 – Activities conducted for promotion of universal Values and Ethics

Activity	Duration From	Duration To	Number of participants
Dr.A.P.J.Abdul kalam memorial day	27/07/2019	27/07/2019	250
Independence day celebration	15/08/2019	15/08/2019	500
Teachers day celebration	05/09/2019	Nil	200
Gandhi Jayanthi day celebration.	02/10/2019	Nil	100
Abdul kalam birthday celebration	15/10/2019	15/10/2019	250
Youth day celebration (swami Vivekanandar birth day)	12/01/2020	12/01/2020	500
Nethaji Subash Chandrabose Birthday	23/01/2020	23/01/2020	150
Republic day celebration	26/01/2020	26/01/2020	200
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7.1.7 – Initiatives taken by the institution to make the campus eco-friendly (at least five)

Our Institute E. G. S Pillay Engineering College (Autonomous) is committed to provide eco friendly environment to its stakeholders and thus contributes to the environmental safety. The following initiatives are taken • Solar Power utilization • Wind Power utilization • Green Campus • Plastic Free Campus • Paperless files • Recycling of Water • Smoke Free campus • Solar Power utilization To conserve the electricity the campus is moving towards solar powered campus. The initiative aims to replace the traditional power usage and employ solar power sources wherever necessary. The campus Auditorium is fully powered by Solar. The Solar Panel fixed in auditorium generates solar power of 3.5 Kilowatts. We are planning to utilize solar power in the laboratories and the initiatives have already started. • Wind Power utilization Apart from solar power utilization the campus is enabled with wind power which generates power of 1.5 Kilowatts which is used for general equipment power source replacing traditional current. • Green campus The campus strongly believes in the benefits of the trees and plant and greenish campus not only purifies the environment but also give a pleasant atmosphere. The campus maintains three gardens within the buildings of the college with several flowers, crotons and medicinal plants. Tree plantations are carried out frequently. Separate Gardener is appointed to ensure the greenish environment of the campus is maintained all time. Green clubs are actively involved in Green campus initiatives. • Plastic Free campus With the aim to avoid non decaying plastics which ruins the soil and environment the campus ensure that one time plastic usage is never used in any place of the campus. One time plastics and use and throw plastics are completely banned inside the campus. The campus bans the use and throws one time plastic tea cups, plates and polythene bags inside the canteen. Non decaying plastic decorative materials are completely avoided in academic functions. • Paperless Files The departments are instructed to

maintain the files digitally rather than keeping the files in a paper format wherever applicable. Also the college is taking initiative on conducting certain exams in online mode rather than in paper mode and thus reduction in paper usage is achieved. • Recycling of Waste water The waste water is recycled and is used for watering the plants in the gardens and for non drinking purposes. Thus the water usage is limited saving ground water and tap water. • Smoke Free campus Smoking is completely banned inside the campus and smoking activity is viewed seriously and disciplinary actions are taken. To avoid vehicle smoke all the students and staff are advised to not ride vehicles inside the campus. Vehicles on entering the campus will be turned off and is parked in the appropriate places manually. Students and staffs are instructed to move by walk or bicycles between blocks, hostels and auditoriums.

7.2 – Best Practices

7.2.1 – Describe at least two institutional best practices

1. Entrepreneurship Development Cell 2. Rain water Harvesting 3. Solar cum Wind Operated Power Generation system 4. E-Governance Software 5. Skill Development Program 6. Competitive Exam Centre -EGSP Jothimani Training Academy:

1. Entrepreneurship Development Cell • Goal - To create and support 108 tech-based start-ups and a thousand employment opportunities within the next 05 years (2023). This would be done by developing an ideal entrepreneurial ecosystem and promoting strong Industry-Academia partnerships, Training, Funding, Mentoring, Support for patents, and commercialization. • The Context - To encourage Science and Technology students to choose entrepreneurship as their careers and motivate the students to convert their Detailed Project Reports (DPRs) and projects into viable business plans. EDC create a common platform for students to submit their project ideas and technically collaborate on this to make the project nationwide so as to be commercialized. • The Practice - Entrepreneurship Development Cell provide the following facility for students to start a venture:- 1. Opportunity Identification 2. Infra such as Space (100-200 Sq.Ft), Furniture, Internet etc 3. Mentoring 4. Seed support 5. Marketing Support • Evidence of Success: 1. StayNature - Shortlisted for Top 400 of SMARTFIFTY2018 Contest and ensured rewards worth Rs. 1,00,000 2. SmartWeigh - Shortlisted for Top 3000 of SMARTFIFTY2018 Contest and ensured rewards worth Rs. 50,000 3. Hexagon Hardwares - Shortlisted for the Grand Finale of Smart India Hackathon 2017 4. AgriBot - Shortlisted for the Grand Finale of Smart India Hackathon 2018 • Problems encountered and Resource required - Lacking in banks, insurance, electricity, water, raw materials, roads, stock market services capital market, organized product marketing, etc. To overcome the challenges essential trainings and innovative ideas are provided to the students. • Note - EGSPEC EDC Cell provides lot of opportunities to develop students entrepreneurship ideas. 2. 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

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

<http://egspec.org/edc.html>

7.3 – Institutional Distinctiveness

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

E.G.S Pillay Engineering College (Autonomous) has a vision to transform our institution into a Global Centre of Academic Excellence by motivating the students in a creative approach for the application of maximum knowledge and information about engineering and technology and to put forth their best endeavors in pursuit of triumph and engineering excellence. Education is all about creating an environment of academic freedom, where bright minds meet, discover and learn. One would experience top of the world living and learning experience at EGSPEC. List of Special and Applied Labs: 1. Embedded System Lab 2. IoT Lab 3. Programming Lab 4. Open source Lab 5. Power system simulation Lab 6. Hydraulic Engineering Lab 7. Software related design Lab 8. Water and waste water Engineering Lab 9. Concrete and Highway Engineering Lab 10. Cloud Computing Lab 11. Project and Research Lab 12. Biomedical Instrumentation Lab 13. Biosensors and Transducer Lab 14. Diagnostic and Therapeutic Equipment Lab 15. Communication Skills Lab 16. Optical and Microwave Lab 17. Pathology and Microbiology Lab 18. Computer Aided Drafting Lab 19. Manufacturing Technology Lab 20. Computer Aided Simulation and Analysis Lab

1. Embedded System Lab: The embedded system lab is designed for facilitating embedded software and hardware education and research including embedded C programming, embedded system design, advanced digital design, embedded kernel and RTOS, and real-time application.

2. IoT Lab: The Internet of Things Lab was developed to create direct integration between the physical world and computer-based systems, helping to connect people, processes and devices.

3. Programming Lab: It is a hands-on project and assignment-based, where students will gain strong practical and technical skills in various programming languages including C, C++, and Java, UNIX/Linux: shell, tools, utilities and programming environments, user interfaces, and software engineering principles.

4. Open source Lab: To create open source environment for doing cloud, grid, operating system projects

5. Power system simulation Lab: The objective of the Lab is to develop the students skill in power system research, voltage and transient stability analysis, fault analysis tools and power systems control methodologies.

Provide the weblink of the institution

<http://egspec.org/lab.html>

8.Future Plans of Actions for Next Academic Year

- Laboratories to be accredited by NABL certification
- To be among the Top 75 institutions in NIRF
- To provide more ecofriendly Campus
- To place more number of students with high salary package
- More focus on Research and Development
- To increase multi-disciplinary research
- To apply more research proposals to DST, SEED, SERB, AICTE, etc.
- To identify more reputed organizations for MoU
- To motivate students to undergo internship in reputed companies