



## Yearly Status Report - 2019-2020

### Part A

#### Data of the Institution

<b>1. Name of the Institution</b>		<b>PRATHYUSHA ENGINEERING COLLEGE</b>
Name of the head of the Institution		<b>DR. RAMESH PLN</b>
Designation		<b>Principal</b>
Does the Institution function from own campus		<b>Yes</b>
Phone no/Alternate Phone no.		<b>04437673701</b>
Mobile no.		<b>8939908019</b>
Registered Email		<b>principal@prathyusha.edu.in</b>
Alternate Email		<b>iqac@prathyusha.edu.in</b>
Address		<b>POONAMALLEE-TIRUVALLUR ROAD, ARANVAYAL KUPPAM VILLAGE, ARANVAYAL POST, THIRUVALLUR TALUK - 602025</b>
City/Town		<b>TIRUVALLUR</b>
State/UT		<b>Tamil Nadu</b>
Pincode		<b>602025</b>

<b>2. Institutional Status</b>					
Affiliated / Constituent		Affiliated			
Type of Institution		Co-education			
Location		Rural			
Financial Status		Self financed			
Name of the IQAC co-ordinator/Director		DR.M.Gopikrishnan			
Phone no/Alternate Phone no.		04437673702			
Mobile no.		9941870778			
Registered Email		iqac@prathyusha.edu.in			
Alternate Email		gopikrishnan.cse@prathyusha.edu.in			
<b>3. Website Address</b>					
Web-link of the AQAR: (Previous Academic Year)		<a href="https://prathyusha.edu.in/iqac/aqar/AQAR%202018-19.pdf">https://prathyusha.edu.in/iqac/aqar/AQAR%202018-19.pdf</a>			
<b>4. Whether Academic Calendar prepared during the year</b>		Yes			
if yes,whether it is uploaded in the institutional website: Weblink :		<a href="https://prathyusha.edu.in/downloads/AC%202019-20_even.pdf">https://prathyusha.edu.in/downloads/AC%202019-20_even.pdf</a>			
<b>5. Accrediation Details</b>					
Cycle	Grade	CGPA	Year of Accrediation	Validity	
				Period From	Period To
1	A	3.13	2016	16-Mar-2016	17-Jun-2021
<b>6. Date of Establishment of IQAC</b>			16-Jun-2016		
<b>7. Internal Quality Assurance System</b>					
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	

Academic Performance Audit	14-Jun-2019 2	75
Outcome based Education - Training	15-Jun-2019 1	137
NBA Academic Audit	22-Jul-2019 6	135
Academic Performance Audit	19-Aug-2020 3	55
Academic Performance Audit	29-Aug-2019 2	14
NBA Academic Audit	05-Sep-2019 3	135
Participation of NIRF	20-Nov-2019 1	135
NBA Academic Internal Audit	25-Nov-2019 1	137
NBA Academic External Audit	29-Nov-2019 1	137
Academic Performance Audit	04-Dec-2019 3	65
<a href="#">View File</a>		

**8. Provide the list of funds 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
CSE	ATAL Online FDP	AICTE-ATAL	2020 90	93000
CSE	MODROB	AICTE	2020 730	1516275
ECE	RPS	AICTE	2020 1035	983019
ECE	Travel Grant Scheme	AICTE	2020 15	110000
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**9. Whether composition of IQAC as per latest NAAC guidelines:**

Yes

Upload latest notification of formation of IQAC

[View File](#)

**10. Number of IQAC meetings held during the year :**

6

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	<a href="#">View File</a>
<b>11. Whether IQAC received funding from any of the funding agency to support its activities during the year?</b>	No

<b>12. Significant contributions made by IQAC during the current year(maximum five bullets)</b>	
<p>Getting NBA ReAccreditation, NIRF , ARIIA and Initiation, meticulous planning and execution of activities to ensure quality in imparting technical education to the students on par with global standards by measuring the course and programme outcomes for continuous improvement. Ensures quality in the implementation of Best Practices. Grooming of staff by understanding and elevating their standards by evaluation of Staff performance measurement system. Maintenance of Management Information System for details of students, staff, extracurricular and cocurricular activities Formulation of Standard Operating procedure for RD cell, Industry Institute Interaction Cell, EDC Cell, Projects Division, Centres of Excellence etc. to clearly outline the targets to be achieved and analysis of its outcomes.</p>	

[View File](#)

<b>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</b>
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Plan of Action	Achivements/Outcomes
NBA NAAC	INTERNAL and EXTERNAL AUDIT FOR NBA FOR THE FOLLOWING DEPARTMENT ECE,CSE,EEE,BT MECH
IAT-1	1. IAT-1 Question paper verification and collection as per Bloom's Taxonomy 2. Audit IAT - 2 Course file audit along with Course outcome analysis. 3. Audit for Mentor book updation. 4. Audit IAT - 1 Audit report submission to chairperson.
IAT - 2	1. IAT-2 Question paper verification and collection as per Bloom's Taxonomy 2. Audit IAT - 2 Course file audit along with Course outcome analysis. 3. Audit for Mentor book updation. 4. Audit IAT -2 Audit report submission to chairperson.
IAT-3	1. IAT-3 Question paper verification and collection as per chairperson. Bloom's Taxonomy 2. Audit IAT - 3 Course file audit along with Course outcome analysis. 3. Audit for Mentor book updation. 4. Audit IAT -3 Audit report submission to
MODEL	1. Model Question paper verification

	and collection as per previous year Question paper. 2. Audit Model Course file audit along with Course outcome analysis. 3. Audit for Mentor book updation. 4. Audit Model Audit report submission to chairperson.
<b>LIBRARY</b>	<b>AUDIT OF LIBRARY STOCK VERIFICATION</b>
<b>END SEM</b>	Model Course file audit report submission to chairperson. 2. Individual faculty complete course file audit for Odd semester.
<b>DEPT. LAB, COMPUTER SYSTEM, R &amp; D, TRAINING, ADMIN, OFFICE,</b>	<b>STOCK VERIFICATION OF DEPT. LAB, COMPUTER SYSTEM, R &amp; D, TRAINING, ADMIN, OFFICE,</b>
<b>NIRF Submission</b>	<b>NIRF Ranking</b>
<b>NBA Accreditation</b>	<b>NBA RE- ACCREDITATION</b>
<a href="#">View File</a>	

<b>14. Whether AQAR was placed before statutory body ?</b>	<b>Yes</b>
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Name of Statutory Body	Meeting Date
Governing Council	29-Jan-2020

<b>15. Whether NAAC/or any other accredited body(s) visited IQAC or interacted with it to assess the functioning ?</b>	<b>Yes</b>
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Date of Visit	08-Feb-2020
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<b>16. Whether institutional data submitted to AISHE:</b>	<b>Yes</b>
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Year of Submission	2020
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Date of Submission	03-Mar-2020
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<b>17. Does the Institution have Management Information System ?</b>	<b>Yes</b>
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If yes, give a brief description and a list of modules currently operational (maximum 500 words)	Accounts and financial works (e.g. ERPTally) Institute accountant used to keep record of all financial on license software Tally which includes fees of students, operational expenses, equipment, furniture, maintenance etc. Staff attendance biometric Staff attendance record is maintain by biometric attendance. Library (Library Management Software by AutoLib) This
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software is helpful to incorporate barcode system for books issue and return. It keeps the record of book issued and return. OPAC system allows students to search books available and put requisitions through Personal computer in the library WORKSHEET GOOGLE DRIVE It can be customize to keep the student record online like their, Test result, Course COPO attainment and assessment and Staff self evaluation system etc. Also faculty can upload notes, elearning resources like PPT, Video lectures which can be access by students online.

## Part B

### CRITERION I – CURRICULAR ASPECTS

#### 1.1 – Curriculum Planning and Implementation

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

As Institute is affiliated to Anna University, we follow the prescribed syllabus of the University for all UG programs and one PG program. Before commencement of new academic year we prepare Academic Calendar as per University guidelines. At the beginning of the semester we prepare objective driven and outcome based teaching plan. All faculty members follow continuous evaluation documents which contain a) Program Educational Objectives, outcomes and its mapping b) Course Objectives, outcomes and its mapping with PO c) Lesson Plan and assessment tools d) Topic covered and number of lectures conducted e) Teaching methods f) Assignment questions and results of the unit tests g) Content beyond the syllabus keeping pace with industrial development h) Practical plan its implementation As per the schedule in every semester performance of the student is assessed by means of Internal Assessment Test t and End semester test [Model Examination]. For the weaker performing [ie slow learners] students, remedial/ Special classes are conducted for different subjects. Industrial visit are arranged to bridge the gap between theoretical knowledge and real life scenario. To make students involved in the teaching learning process, new and innovative teaching techniques in addition to the traditional lecture method are introduced. Guest lectures are conducted by inviting distinguished personalities from different Institutes and Industries. Each faculty member of the department is connected to Mentorship program. Each member of the teaching faculty is entrusted with the task of mentoring 15 to 20 students. They are responsible for academic and personal mentoring of these students. This is to strengthen the bonds of appreciation and affection that exists between teacher and students.

1.1.2 – Certificate/ Diploma Courses introduced during the academic year

Certificate	Diploma Courses	Dates of Introduction	Duration	Focus on employ ability/entrepreneurship	Skill Development
LabVIEW course completion	NA	05/08/2019	1	Training, Internship, Recruitment	Application based systems
Arduino	NA	05/08/2019	1	Training,	Application

Programming					Internship, Recruitment	based systems
Embedded systems	NA	05/08/2019	1		Training, Internship, Recruitment	Application based systems
Antenna Design using CST tools	NA	05/08/2019	1		Training, Internship, Recruitment	Application based systems
Design of ICs using Tanner	NA	05/08/2019	1		Training, Internship, Recruitment	Application based systems
Matlab Basics	NA	05/08/2019	1		Training	Simulation of Application based systems
Matlab Simulink	NA	05/08/2019	1		Training	Simulation of Application based systems
Networking certification	NA	05/08/2019	1		Training	Simulation of Networks for various traffic scenario
ETAP Simulation Certification	NA	05/08/2019	1		Training	Simulation of load flow analysis, short circuit analysis in grid
Dialux Beginners' certification	NA	05/08/2019	1		Training	Simulation of interior light designing
PVSyst Beginners' certification	NA	05/08/2019	1		Training	Simulation of PV panel design
PLC with automation certification	NA	05/08/2019	1		Training	Practical application of PLC controllers in automation system
Bioinfo Tech club	NA	05/08/2019	1		Training /Entrepreneurship	Application of using bio informatics tools

## 1.2 – Academic Flexibility

1.2.1 – New programmes/courses introduced during the academic year

Programme/Course	Programme Specialization	Dates of Introduction
ME	INFORMATION TECHNOLOGY	01/07/2019
Mtech	BIOTECHNOLOGY	01/07/2019
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1.2.2 – Programmes in which Choice Based Credit System (CBCS)/Elective course system implemented at the affiliated Colleges (if applicable) during the academic year.

Name of programmes adopting CBCS	Programme Specialization	Date of implementation of CBCS/Elective Course System
BE	CSE ,ECE ,EEE ,CIVIL ,MECH	01/07/2019
BTech	IT, BT	01/07/2019

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

	Certificate	Diploma Course
Number of Students	924	13

**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
8	01/07/2019	295
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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	ECE	100
BE	ECE	98
BE	CSW	96
BTech	BIOTECH	32
BE	CSE	21
BTech	BIOTECH	23
BE	EEE	33
BE	EEE	7
BE	CIVIL	35
BE	MECH	104
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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**

Feedback is collected from all stakeholders. Every year institute organizes Alumni Meet in which feedback is collected to enrich the curriculum. At the mid and end of each semester, a feedback from every student is taken. The college has implemented online student feedback system. Course wise regular student feedback is collected on teaching and learning and is communicated to the respective faculty members so that assess themselves to improve and contribute to teaching learning process in a positive way. Teacher's feedback is collected regarding the facilities provided by the institute. Employer's feedback is taken from different Employers regarding performance of students. Every year Alumni meet is organized in the institute and feedback is collected at the time of alumni meet. Every semester teacher parent meet is organized parents feedback is collected at the time of teacher parent meet. Regular IQAC meetings are held in the institute and many advises and suggestions are discussed with Governing body accepted and effectively implemented for overall development of Institute.

**CRITERION II – TEACHING- LEARNING AND EVALUATION**

**2.1 – Student Enrolment and Profile**

2.1.1 – Demand Ratio during the year

Name of the Programme	Programme Specialization	Number of seats available	Number of Application received	Students Enrolled
BE	ECE	120	109	109
ME	COMMUNICATION SYSTEMS	18	2	2
BE	COMPUTER SCIENCE	120	126	126
BTech	BIOTECH	60	28	28
BE	CIVIL	30	7	7
ME	STRUCTURAL ENGG	18	11	11
BE	MECH	120	23	23
BTech	INFORMATION TECHNOLOGY	60	50	50
BE	EEE	30	16	16
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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	1391	54	90	14	49

**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
103	103	124	124	18	24
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2.3.2 – Students mentoring system available in the institution? Give details. (maximum 500 words)

Yes. Student Mentoring System is available in institute. Each faculty is the mentor of a group of 15 to 20 students. First year students have mentors from the department of Basic Engineering Science and remaining students have mentors from the parent department. The Department faculty continue to be mentors for the same group of students till their graduation. Each mentor interacts with two students per day, during which, the mentor communicates personally with each student to understand the academic challenges or personal issues of students. Responsibilities: The mentor takes care of mentees in the following ways. • Meets two students every day on priority basis. • Continuously monitors, counsels, guides and motivates the students in all academic matters. • Advises mentees regarding choice of electives, project, summer training etc. • Contacts parents/guardians if situation demands e.g. academic irregularities, negative behavioural changes and interpersonal relations, detrimental activities etc. • Advises students in their career development/professional guidance. • Keeps contact with the mentees even after their graduation. • Intimates the Head of the Institution and suggests if any administrative action is called for. • Maintains a detail progressive record of the mentees in the Mentor Book. • Maintains a brief but clear record of all discussions with students. HOD • Meets all mentor of his/her department at least once a month to review proper implementation of the system. • Interacts with mentors wherever necessary.

Number of students enrolled in the institution	Number of fulltime teachers	Mentor : Mentee Ratio
1401	109	1:13

## 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
126	128	0	1	23

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	Dr.S.PadmaPriya	Professor	Coordinator for MHRD Innovation Council and IPR Ambassador
2019	P.MALATHI	Associate Professor	COORDINATOR FOR NEW INDIA LEARNATHON BY ICT ACADEMY
2019	T.RUBESH KUMAR	Associate Professor	BEST ISF AWARD BY IEEE FOR BEST STUDENTS BRANCH AWARD

2019	Dr.P.DHASARATHAN	Professor	Best researcher - 2019 (DK International research Foundation on 29th December 2019 at Perambalur)
2019	Dr. P. CHITRA	Professor	INSPIRE FACULTY AWARD from INFOSYS TECHNOLOGIES LTD.
2019	Dr.P.DHASARATHAN	Professor	HOD award of the year - 2020(INSC - Institute of Scholars - Bengaluru)
2019	Prof. A.J.A Ranjit Singh	Professor	Provisionally selected for Academic Excellence Awards of the year - 2020(INSC - Institute of Scholars - Bengaluru)
2019	Dr. M. Thenmozhi	Associate Professor	Young Scientist -2019(DK International research Foundation on 29th December 2019 at Perambalur)
2019	Dr. M. Gopikrishnan	Professor	Margadharshan - AICE -NBA
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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	106,105,214,114,103	VIII/IV	29/05/2020	15/09/2020
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2.5.2 – Reforms initiated on Continuous Internal Evaluation(CIE) system at the institutional level (250 words)

The Primary objective of Continuous Internal Evaluation (CIE) is to monitor student progress. As the institute is affiliated to the Anna University, institute strictly adheres to norms and guidelines regarding evaluation and reforms given by university. Along with this, institute follows following evaluation process a) After the result analysis at the end of each semester, the student performance in each subject is analyzed and whenever the performance is to be improved, the faculty incharge is mentored by the Principal. b) Evaluation is done by comparing the teaching process with the laid down methods documented. c) It is monitored through feedback from the

students every semester and the feedback is also noted for the faculty's appraisal and for corrective actions. d) Inter department academic monitoring is done by monitoring committee. e) Corrective and preventive actions are taken through discussions in department meetings. The Continuous Internal Evaluation(CIE) is done on the following parameters: a) Assignments b) Presentations c) Industrial visits and training d) Class interactions e) Group discussions f) Workshops/Seminars g) Projects h) Written and practical tests i) Inter college competitions j) Overall attendance and conduct during the session k) Parents meeting l) Extracurricular activities from the students m) Guest lectures n) Paper presentation o) Mock oral p) Written Exams q) Practical Exams r) Comprehensive Viva s) Project work t) Aptitude test u) Coding contest

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

Academic calendar and semester plan are prepared well in advance for all activities of the academic year which includes • Class committee meetings. • Internal assessments schedule. • Class Teacher meetings. • Syllabus coverage schedule. • Project exhibition • General Events • Project review schedule and • Six Academic audit per semester

## 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)

<https://prathyusha.edu.in/departments/computer-science-and-engineering/>

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
104	BE	CSE	96	96	100
114	BE	MECHANICAL	66	66	100
214	BTech	BIOTECH	32	32	100
105	BE	EEE	33	33	100
106	BE	ECE	100	100	100
103	BE	CIVIL	23	23	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)

<https://prathyusha.edu.in/departments/computer-science-and-engineering/>

## CRITERION III – RESEARCH, INNOVATIONS AND EXTENSION

### 3.1 – Resource Mobilization for Research

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

Nature of the Project	Duration	Name of the funding agency	Total grant sanctioned	Amount received during the year
Any Other (Specify)	180	AICTE	110000	110000

Any Other (Specify)	730	AICTE	1516275	1213020
Any Other (Specify)	90	AICTE-ATAL	97000	97000
Major Projects	1095	AICTE	983019	968274
Any Other (Specify)	180	Nithiya Food and Neutraceuticals	65000	65000
Industry sponsored Projects	180	Slick alpha	206000	206000
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### 3.2 – Innovation Ecosystem

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

Title of workshop/seminar	Name of the Dept.	Date
My Story - Entrepreneur's Life Crossroad - Motivational Speak - To be Share by Entrepreneurs	PEC INNOVATION CELL	30/06/2019
Field/Exposure Visit to Village/Society /School/Industry/Market - Identity real Life Problem	NSS	01/07/2019
Field Visit - About Pile foundation work in site and foundation marking using total station	CIVIL	17/08/2019
India First Leadership Talk Series with Honble HRD Minister Shri Ramesh Pokhriyal Nishank.	PEC INNOVATION CELL	22/08/2019
Green Buildings Green Environment	CIVIL	06/09/2019
Workshop On "DATA SCIENCE:A DEEP DIVE	CSE	07/09/2019
Industry Expert Interaction - Clinical research in Bioinformatics	BIOTECH	09/09/2019
Recent trends in Renewable energy Grid integration in association with National Institute of Wind energy	EEE	04/01/2020
A two day workshop on Animal Tissue Culture by Dept. of Biotechnology	BIOTECH	10/01/2020

Fabrication Lab , Southern Railways , Arakkonam	MECHANICAL	18/12/2019
Elaborate talk on various aspect and phases in product development like idea Generation/opportunity identification, screening/ evaluation/ research,concept development, t development/ testing and commercialization.	EDC	21/12/2019
Workshop on National Innovation and Start-up Policy (NISIP)	PEC INNOVATION CELL, EDC	06/01/2020
First Year Project Exhibition	SH	06/11/2019
HR Conclave	PLACEMENT CELL	14/12/2019
FIELD VISIT TO SYNKROMAX BIOTECH PVT LTD	BIOTECH	18/12/2019
Activity Based Learning-My Environment	ALL DEPARTMENTS	16/12/2019
ISHRAE INAUGURATION	MECHANICAL	19/12/2019
Idea Submission in Smart India Hackathon 2020	PEC INNOVATION CELL	04/02/2020
Science Day	PEC INNOVATION CELL	02/03/2020
IIC National Innovation Contest-PoC Submission	PEC INNOVATION CELL	30/05/2020
IIC National Innovation Contest-Idea Submission	PEC INNOVATION CELL	30/03/2020
leadership talk is with Ms. Shradha Sharma, Founder, and Chief Editor, YourStory.com	PEC INNOVATION CELL	15/04/2020
Talk with Dr. Anand Deshpande, Founder, Chairman Managing Director, Persistent Systems Ltd	PEC INNOVATION CELL	14/04/2020
Dr. VK Saraswat, Member NITI Aayog.Dr. Saraswat will talk about how Make in India will become more relevant in post-Covid world.	PEC INNOVATION CELL	13/04/2020
Demo Day - Exhibition Cum Mentorship Session for Innovators (or) Student Entrepreneurs	PEC INNOVATION CELL	27/01/2020

Online Session 8:One Day Awareness/Mentoring Session on the campus or Online session by Dr Sanjeeva Kumar Majumdar Manager-IPR, StartUp Incubation	PEC INNOVATION CELL	07/05/2020
Organise One/half day Interactive/online Session/Mentoring Session "Hangout with Successful Start-ups" (Entrepreneurs in Campus )	PEC INNOVATION CELL	30/04/2020
Organise One day Session on "How to plan for Start-up and legal and Ethical Steps"	PEC INNOVATION CELL	12/05/2020
Organise Workshop on Business Model Canvas (BMC) and (or) Business Plan Competition to Invite Innovative Business Models from Students	PEC INNOVATION CELL	19/05/2020
Field/Exposure Visit to Incubation Unit/Patent Facilitation Centre/Technology Transfer Centre	PEC INNOVATION CELL	11/03/2020
Department of Computer Science and Engineering Organizing Industrial Visit To TVS openhouse for III year students on 11.03.2020 to get Industrial Exposure	CSE	11/03/2020
Department of EEE organized INDUSTRIAL VISIT to Sakthi Transformers, Chennai. For II year EEE students	EEE	13/03/2020
Two day Workshop On Application of Statistics Using Excel and SPSS in Research	BIOTECH	04/03/2020
A live webinar on Support Vector Machine Algorithm in Machine Learning	CSE	05/03/2020
A live webinar on Gene Therapy	BIOTECH	12/03/2020
A live webinar on Submerged Floating Tunnel	CIVIL	04/03/2020
A LiveWebinar Cost	CIVIL	16/03/2020

effective mechanism to treat wastewater in small villages		
A liveWebinar on Importance of energy conservation	EEE	13/03/2020
Department of Electronics and Communication Engineering proudly organizing a live webinar on MQTT by Mr.M.Pushpakumar, III-year ECE	ECE	03/03/2020
Department of CSE proudly organizing a live webinar on the topic Introduction to Deep Learning	CSE	13/03/2020
Department of Mechanical Engineering and CNC Club Organizing Industrial visit to Orion Elektrik Controls Pvt Ltd on 09.03.2020	MECHANICAL	09/03/2020
AICTE sponsored International Conference on "Novel approach of Biotechnology and Bioengineering in health care system"	BIOTECH	06/03/2020
A webinar on STRUCTURAL STEEL DESIGN CONCEPTS	CIVIL	12/05/2020
A webinar on BIOINFORMATICS IN TRANSLATIONAL DRUG DISCOVERY	BIOTECH	12/05/2020
Interaction with Student Innovators and Entrepreneurs Emerged from Smart India Hackathon (SIH)	PEC INNOVATION CELL	22/05/2020
Frugal Innovation and Social Entrepreneurship	PEC INNOVATION CELL	21/05/2020
Use of Market Data and Application of Marketing Research Tools and Methodology - Advance Level	PEC INNOVATION CELL	20/05/2020
Innovation Risk Diagnostic: Product Innovation Rubric (PIR)	PEC INNOVATION CELL	15/05/2020
Understanding Role and Application of Marketing Research at Idea to	PEC INNOVATION CELL	14/05/2020



StartUp Stage - Foundation Level		
Innovating Self- Screen and Identify right opportunities	PEC INNOVATION CELL	13/05/2020
How to Identify Right Problem and Solution using the Double Diamond Approach in Design	PEC INNOVATION CELL	06/05/2020
Entrepreneurship, Business Idea and Business Model Canavas	PEC INNOVATION CELL	05/05/2020
Hangout with Successful Startup Founder and Learn on Design thinking Approach for Hardware Innovation	PEC INNOVATION CELL	04/05/2020
Role of Network Enablers in driving IE in HEIs - A Case of TiE, India	PEC INNOVATION CELL	01/05/2020
Session on Accelerator/Incubation - Opportunity for Student Faculty - Early Stage Entrepreneurs	PEC INNOVATION CELL	29/04/2020
National Innovation and Startup Policy for Students and Faculty 2019	PEC INNOVATION CELL	28/04/2020
Entrepreneurship Development Cell and PEC IIC jointly organizing webinar on Ten steps to become successful Entrepreneur	EDC MECHANICAL	09/05/2020
Department of Biotechnology Organizes webinar on MAGNETIC NANOCARRIERS FOR ENHANCED ENZYME ACTIVITY	BIOTECH	30/05/2020
A webinar on Role of Materials Science in Biotechnology	BIOTECH	23/05/2020
A webinar on Recent Advances in Crystal Technology	SH	28/05/2020
A Webinar on Data Analytics and Business Intelligence	CSE	28/05/2020
A webinar on Highway Development and planning	CIVIL	23/05/2020
Topic: BE AN EMPOWERED ENTREPRENEUR	EDC	25/05/2020

Date-25.05.2020 Time-11 A.M Resource person Mr. S. VARADARAJAN, MBA,DTM CHIEF EMPOWERMENT OFFICER, V empower academy INDIA		
Post Covid-19 - Way Forward	PEC INNOVATION CELL	12/05/2020
A Guidance on active Government funding facilitation to become an successful Entrepreneur and incubatee	PEC INNOVATION CELL	15/05/2020
Hangout with Successful Start-ups - By Ms.Richa Singh , Co-Founder CEO , YourDOST	PEC INNOVATION CELL	15/02/2020

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

Title of the innovation	Name of Awardee	Awarding Agency	Date of award	Category
CERTIFICATE OF Successfully Completed Training on Design thinking Innovation conducted as part of IIC Innovation Ambassador Training Series	Mrs.P.Malathi	MHRD Institution Innovation Council (IIC)	15/02/2020	IIC
CERTIFICATE OF Successfully Completed Training on Entrepreneurship Development Program" conducted as part of IIC Innovation Ambassador Training Series	Dr.P.JAYARAMAN	MHRD Institution Innovation Council (IIC)	15/02/2020	IIC
CERTIFICATE OF Successfully Completed Training on Pre-Incubations Incubation Management conducted as part of IIC Innovation Ambassador	Mr.GOPINATH NARAYANAN	MHRD Institution Innovation Council (IIC)	09/03/2020	IIC

Training Series				
CERTIFICATE OF Successfully Completed Training on IPR Technology Transfer conducted as part of IIC Innovation Ambassador Training Series	DR.S.PADMAPRIYA	MHRD Institution Innovation Council (IIC)	09/03/2020	IIC
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### 3.2.3 – No. of Incubation centre created, start-ups incubated on campus during the year

Incubation Center	Name	Sponsored By	Name of the Start-up	Nature of Start-up	Date of Commencement
MSME HI/BI	PEC BI	MSME	BI	Host institute approved in principle. It has been decided that no money for Grant for Plant Machinery shall be released to any Host institute till at least 2 ideas are approved for that HI.	14/01/2020
MSME HI/BI	PEC BI	MSME	JOLLY CREATIONS	Computer programming, consultancy and related activities	01/11/2019
MSME HI/BI	PEC BI	MSME	FREAKING STUDIOS	Computer programming, consultancy and related activities	01/11/2019
MSME HI/BI	PEC BI	MSME	BUDDHABLOCK	General	23/05/2020
No file uploaded.					

### 3.3 – Research Publications and Awards

#### 3.3.1 – Incentive to the teachers who receive recognition/awards

State	National	International
6	18	13

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

Name of the Department	Number of PhD's Awarded
CSE	1
ECE	1

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

Type	Department	Number of Publication	Average Impact Factor (if any)
International	CSE	46	4.36
International	EEE	14	6.98
International	ECE	45	5.75
International	MECH	28	4.34
International	BIOTECH	35	4.65
International	CIVIL	9	3.94
International	IT	4	2.76
No file uploaded.			

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

Department	Number of Publication
ECE	3
MECHANICAL	1
BIOTECH	2
CSE	45
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3.3.5 – Bibliometrics of the publications during the last Academic year based on average citation index in Scopus/ Web of Science or PubMed/ Indian Citation Index

Title of the Paper	Name of Author	Title of journal	Year of publication	Citation Index	Institutional affiliation as mentioned in the publication	Number of citations excluding self citation
Smart Water Pollution Detection for Aquatic life protection using IoT	Mr.W. Thamba Meshach	Test Engineering and Management (Scopus Indexed)	2020	1	Prathyusha Engineering College	1
Design Fabrication and Contour Analysis of Die Casting of Belt	Dr.P.JAYARAMAN	Journal of Advanced Research in Dynamical and Control Systems	2020	1	Prathyusha Engineering College	0

Buckle						
Different types of antigen preparation from Aeromonas hydrophila for health care	Dr.P.Dhasarathan	International journal of research and analytical reviews	2019	1	Prathyusha Engineering College	1
High temperature superplasticity and its deformation mechanism of AA6063/SiCp	Dr.V.JAYASHEELAN	Case Studies in Thermal Engineering	2020	1	Prathyusha Engineering College	4
Enhancing the performance analysis of large capacity power plant using ETAP	Dr.K.Sathyasekar	TEST Engineering and Management	2020	1	Prathyusha Engineering College	1
Meta classifiers for Predicting the Robotic Navigational Performance	Dr S Arun	International Journal of Innovative Technology and Exploring Engineering (Scopus Indexed)	2019	1	Prathyusha Engineering College	1
EARLY FOREST FIRE RECOGNITION USING DEEP LEARNING	Dr.M.Gopikrishnan	Test Engineering and Management (Scopus Indexed)	2020	1	Prathyusha Engineering College	1
Energy consumption and network connectivity based on Novel-LEACH-POS protocol networks	Mr. Thiagarajan.R	Computer Communications	2020	6	Prathyusha Engineering College	6
Metaclassifi	Dr.S.Padma	Internatio	2019	1	Prathyusha	1

fiers for Predicting the Robotic Navigational Performance	Priya	nal Journal of Innovative Technology and Exploring Engineering (Scopus Indexed)			Engineerin g College	
AN INCOME TAX FRAUD DETECTION USING AI	V.R.Kavitha	Journal of critical Reviews (Scopus Indexed)	2020	0	Prathyusha Engineering College	0
<a href="#">View File</a>						

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

Title of the Paper	Name of Author	Title of journal	Year of publication	h-index	Number of citations excluding self citation	Institutional affiliation as mentioned in the publication
Implementa tionof Employee Quarters Management System in ERP SAP Foran Orga nization	Dr.S.Padma Priya	Test Engin eering and Management (Scopus Indexed)	2020	1	0	Department of Computer Science and Engine eringPrath yusha Engi neering Co llege.Chen nai, India
EARLY FOREST FIRE RECOG NITION USING DEEP LEARNING	Dr.M.Gopik rishnan	Test Engin eering and Management (Scopus Indexed)	2020	1	0	Department of Computer Science and Engine eringPrath yusha Engi neering Co llege.Chen nai, India
Android Based Visual Product Id entificati on for the Blind	Mr.Thiyaga rajan	Test Engin eering and Management (Scopus Indexed)	2020	1	0	Department of Computer Science and Engine eringPrath yusha Engi neering Co llege.Chen nai, India
A Novel Technique for Automatic	Mr.I.Mohan	Test Engin eering and Management (Scopus	2020	1	0	Department of Computer Science

Billing in smart shopping		Indexed)				and EngineeringPrathyusha Engineering College.Chennai, India
Smart Water Pollution Detection for Aquatic life protection using IoT	Mr.W. Thamba Meshach	Test Engineering and Management (Scopus Indexed)	2020	1	0	Department of Computer Science and EngineeringPrathyusha Engineering College.Chennai, India
Prediction and pattern Identification of crime data using data mining techniques	B.GUNASUNDARI	Test Engineering and Management (Scopus Indexed)	2020	1	0	Department of Computer Science and EngineeringPrathyusha Engineering College.Chennai, India
High temperature superplasticity and its deformation mechanism of AA6063/SiCp	Dr.V.JAYASHEELAN	Case Studies in Thermal Engineering	2020	6	4	Department of Mechanical Engineering, Prathyusha Engineering college
MACRO ASSISTED AUTOMATIC DESIGN OF PIPE VALVES USING SOLID WORKS API	Mr.K.BALACHANDAR	TEST Engineering and Management	2020	1	0	Department of Mechanical Engineering, Prathyusha Engineering college
Prediction and pattern Identification of crime data using data mining techniques	J Omana	Test Engineering and Management (Scopus Indexed)	2020	1	0	Department of Computer Science and EngineeringPrathyusha Engineering College.Chennai, India
Grab Your Yield on	B.S.Liya	Test Engineering and	2020	1	0	Department of

Stock Market Using Sentimental Analysis and LSTM using ARNN	Management (Scopus Indexed)			Computer Science and Engineering Prathyusha Engineering College. Chennai, India
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### 3.3.7 – Faculty participation in Seminars/Conferences and Symposia during the year :

Number of Faculty	International	National	State	Local
Attended/Seminars/Workshops	13	41	8	0
Presented papers	68	227	21	14
<a href="#">View File</a>				

### 3.4 – Extension Activities

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

Title of the activities	Organising unit/agency/ collaborating agency	Number of teachers participated in such activities	Number of students participated in such activities
Dengue Care Campaign	NSS	2	35
Swachh Bharat rural development internship	Govt of India	2	65
Rural Special Camp	NSS CELL PEC	2	70
Tree Plantation Programme	NSS CELL PEC	2	65
Republic day celebration	NSS CELL PEC	2	80
Republic day celebration	NSS CELL PEC	2	120
NSS Orientation programme at Anna University	NSS , ANNA UNIVERSITY	1	55
Blood Donation camp	Prathyusha Engineering College	4	275
Founders Day Celebration	NSS CELL PEC	2	250
World Water Day	NSS CELL PEC	1	160
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#### 3.4.2 – Awards and recognition received for extension activities from Government and other recognized bodies during the year

Name of the activity	Award/Recognition	Awarding Bodies	Number of students Benefited
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NSS Orientation programme at Anna University	NSS , ANNA UNIVERSITY	1	55
Swachh Bharat rural development internship	Govt of India	6	65
No file uploaded.			

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

Name of the scheme	Organising unit/Agency/collaborating agency	Name of the activity	Number of teachers participated in such activities	Number of students participated in such activities
Swachh Bharat	NSS	swachh Bharath Internship programme on rural community services	10	35
Swachh Bharat	NSS	College cleanliness camp	4	60
NSS	NSS Anna university	Special camp, blood donation camp, Aids awareness, Road safety programme, National youth day, Tree plantation	25	240
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### 3.5 – Collaborations

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

Nature of activity	Participant	Source of financial support	Duration
RESEARCH	Dr.S.PadmaPriya	AICTE,DST,ATAL	1095
RESEARCH	DR.S. ARUN	AICTE, DST, ATAL	1095
CATIA TRAINING	FINAL YEAR MECHANICAL STUDENTS	TVS HARITHA	30
SOFTWARE TRAINING	FINAL YEAR CIVIL STUDENTS	GMD CIVIL SOLUTIONS	30
ENERGY AUDIT	FINAL YEAR EEE STUDENTS	ENSAVE CONSULTANCY	30
Brain storming session member	Dr.A.J.A.Ranjit Singh	DBT - State partnership Programme on skill Vigyan(TNSCST)	01
MARGADHASHAK	Dr.M.Gopikrishnan	AICTE - NBA	735
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3.5.2 – Linkages with institutions/industries for internship, on-the- job training, project work, sharing of research

facilities etc. during the year

Nature of linkage	Title of the linkage	Name of the partnering institution/ industry /research lab with contact details	Duration From	Duration To	Participant
INDUSTRIES	STUDENTS PROJECTS	RETECH SOLUTIONS CHASE TECHNOLOGIES TESLA MINDS NANO PV TECH	02/12/2019	30/03/2020	IV YEAR STUDENTS
INDUSTRIES	INTERNSHIP	ECIL, HYDERABAD BSNL, CHENNAI AIR, CHENNAI RETECH SOLUTIONS, CHENNAI CHASE TECHNOLOGIES, CHENNAI TESLA MINDS, CHENNAI NANO PV TECH.	01/07/2019	15/07/2019	IV YEAR AND THIRD YEAR STUDENTS
INDUSTRIES	ON JOB TRAINING	VALUED EPISTEMICS DOMEX E SOLUTIONS,	01/01/2020	20/06/2020	83 -IV YEAR STUDENTS 5 - IV YEAR STUDENTS
INDUSTRIES	SHARING LAB FACILITIES	TESLA MINDS, CHENNAI NANO PV TECH	01/06/2020	31/07/2020	ANTENNA CLUB FACULTY AND IV YEAR STUDENTS
INTERNSHIP	INTERNSHIP	TN GENERATION AND DISTRIBUTION CORPORATION LTD, NPK RR MALIGAI, TENTH FLOOR, NO 144, ANNA SALAI, CHENNAI - 2.	18/12/2019	17/03/2020	15
PROJECT WORK	STUDENTS PROJECTS	CPWD CHENNAI	01/01/2020	17/03/2020	IV YEAR STUDENTS
INDUSTRIES	INTERNSHIP	SS GROUP OF COMPANIES	16/12/2019	23/12/2019	IV YEAR STUDENTS
PROJECT WORK	STUDENTS PROJECTS	TNEB, CHENNAI	18/12/2019	17/03/2020	6
RESEARCH LAB	INTERNSHIP	SRI JAYARAM CLINICAL	20/02/2020	26/02/2020	STUDENTS

		LABORATORY			
INDUSTRIES	INTERNSHIP	Sundram fasteners Ltd	20/01/2020	16/03/2020	10 STUDENTS
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3.5.3 – MoUs signed with institutions of national, international importance, other universities, industries, corporate houses etc. during the year

Organisation	Date of MoU signed	Purpose/Activities	Number of students/teachers participated under MoUs
TESLA MINDS	03/06/2019	TRAINING, INTERNSHIP	24
VR SOLUTIONS	03/06/2019	TRAINING, INTERNSHIP	11
ISHRAY	09/09/2019	TRAINING, WORKSHOP, PLACEMENTS	54
<a href="#">View File</a>			

## 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
75	71.94

4.1.2 – Details of augmentation in infrastructure facilities during the year

Facilities	Existing or Newly Added
Campus Area	Existing
Class rooms	Existing
Laboratories	Existing
Seminar Halls	Existing
Classrooms with LCD facilities	Existing
Seminar halls with ICT facilities	Existing
Video Centre	Existing
Value of the equipment purchased during the year (rs. in lakhs)	Existing
Classrooms with Wi-Fi OR LAN	Existing
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### 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 patially)	Version	Year of automation
AUTOLIB	Fully	5.1	2020

4.2.2 – Library Services

Library	Existing	Newly Added	Total

Service Type						
Text Books	55328	18789292	210	73000	55538	18862292
Reference Books	5510	2122650	20	7000	5530	2129650
e-Books	2232	13570	20	450	2252	14020
Journals	62	132000	78	168000	140	300000
e-Journals	859	13570	20	350	879	13920
CD & Video	2010	0	0	0	2010	0
Library Automation	1	50000	0	0	1	50000
Weeding (hard & soft)	3030	905000	0	0	3030	905000
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4.2.3 – E-content developed by teachers such as: e-PG- Pathshala, CEC (under e-PG- Pathshala CEC (Under Graduate) SWAYAM other MOOCs platform NPTEL/NMEICT/any other Government initiatives & institutional (Learning Management System (LMS) etc

Name of the Teacher	Name of the Module	Platform on which module is developed	Date of launching e-content
Dr.P.Jayaraman	Product design and development, Tamil translation of NPTEL course offered by IIT Roorkee	Tamil translation of English version of notes has been carried out in MS docx file format	29/11/2019
<a href="#">View File</a>			

#### 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	745	500	745	30	120	15	20	100	0
Added	0	0	0	0	0	0	0	0	0
Total	745	500	745	30	120	15	20	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
STUDENT WEBINAR SERIES	<a href="https://www.youtube.com/watch?v=Z00SNSj6-xE&amp;t=10s">https://www.youtube.com/watch?v=Z00SNSj6-xE&amp;t=10s</a>
STAFF TECHNOLOGY UPGRADE SERIES	<a href="https://www.youtube.com/watch?v=9hjYbAr0xsI&amp;t=64s">https://www.youtube.com/watch?v=9hjYbAr0xsI&amp;t=64s</a>

AV HALL, COMPUTING CENTRE	<a href="https://fb.watch/lzzlalbjWq/">https://fb.watch/lzzlalbjWq/</a>
STUDY MATERIALS	<a href="https://prathyusha.edu.in/departments/electronics-communication-engineering/#Resources">https://prathyusha.edu.in/departments/electronics-communication-engineering/#Resources</a>
STUDENTS WEBINARS	<a href="https://www.facebook.com/207688775912837/videos/2790238181245791/">https://www.facebook.com/207688775912837/videos/2790238181245791/</a>
STAFF TECHNOLOGY UPGRADATION MEETING	<a href="https://www.facebook.com/207688775912837/videos/373477947173256/">https://www.facebook.com/207688775912837/videos/373477947173256/</a>
STAFF TECHNOLOGY UPGRADATION MEETING	<a href="https://www.facebook.com/207688775912837/posts/3740191019329244/">https://www.facebook.com/207688775912837/posts/3740191019329244/</a>
TECHNOLOGY UPGRADATION MEETING	<a href="https://www.facebook.com/watch/live/?v=2928664263877757&amp;ref=watch_permalink">https://www.facebook.com/watch/live/?v=2928664263877757&amp;ref=watch_permalink</a>
STUDENTS WEBINARS	<a href="https://www.facebook.com/watch/live/?v=651821305590941&amp;ref=watch_permalink">https://www.facebook.com/watch/live/?v=651821305590941&amp;ref=watch_permalink</a>
STUDENTS WEBINARS	<a href="https://www.facebook.com/PrathyushaInstitute/posts/3621089911239356">https://www.facebook.com/PrathyushaInstitute/posts/3621089911239356</a>
STAFF TECHNOLOGY UPGRADATION MEETING	<a href="https://www.facebook.com/watch/live/?v=583425158971560&amp;ref=watch_permalink">https://www.facebook.com/watch/live/?v=583425158971560&amp;ref=watch_permalink</a>

#### 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
300	272.49	585	556.62

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

Prathyusha Engineering College is located in Chennai, Tamilnadu, situated on Ponnammallee - Thiruvallur Road, Aranvoyaluppam and is flanked by Thirumazhi, the new satellite township. The campus is spread across a vast area of 60 acres of lush green environment. The college has a well designed building and comprehensive infrastructure provided for both students and faculty with a Central computing facility, Central Library, and common facilities like workshop, playground, and canteen in campus. Excellent state of the art infrastructure of PEC is strength with exceptionally wide experienced faculty supported by on campus hostel facility, library, Research labs, Industry Associated laboratories, seminar hall, and all allied facilities. Moreover, the college is blessed with well planned infrastructure features that support all kinds of events and acts as a facilitator for the effective delivery of our curriculum. The Institute is divided into zones - The Academic Zone, residential zone, administrative zone. The layout has been excellently planned to make the maximum utilisation of the entire campus area with separate blocks - Administrative Block, Examination Cell, Institute Industry Collaborative Block, Central Library, Central Auditorium, ECE Block, EEE Block, Mechanical And Civil Block, CSE/IT Block. CLASS ROOMS The classrooms boards and furniture facilities are utilized regularly by the students but sometime it is also made available for the other governmental and the nongovernmental organizations for conducting the exams like scholarships etc.. CENTRAL LIBRARY PEC has housed in a spacious area of 50, 000 sq ft, fully computerized and air conditioned with Reference Section, Magazine Section and Stack Area with more than 60,000 text

books, reference books, dictionaries, encyclopedias, code books, and data sources books and reference volumes stacked for the benefit of staff and students. A comprehensive, bar coded, computerized library and reading hall equipped with internet connection, email facility, audio video CD and DVD, national and international journals, Technical Magazines, past students work in digital format and photocopying facilities are also available. The digital Library Dspace provides online resources for interested students in Computer Assistant Learning. CENTRAL COMPUTER FACILITY The college has about 1500 Hi end Computer all networked with LAN and internet services through wireless connectivity, and LCD projection systems, hardware and software, printers, plotters, scanners, photocopying machine, digital cameras and video cameras. The state of the art engineering in our Computer Centre comprises the following: IBM Blade server Advanced Networking Equipment from CISCO Latest software Tools are available to enable the students to work on data analysis, Computing technologies, web technologies and software designing NAS - Network Attached Storage data backup system of 2TB capacity INTERNET FACILITY The entire campus is connected by Internet with 100 Mbps bandwidth. The campus has 1500 computers equipped in laboratories with TFT monitors. AUDITORIUM/SEMINAR HALL The college has two centralized air conditioned seminar halls with all modern facilities in the campus. The college multipurpose hall has a capacity of 1500 and it is also equipped with ultra modern LCD projector, computer workstation, audiovisual facilities and wireless Internet facilities and also each departmental block has a Seminar Hall exclusively

<http://prathyusha.edu.in/infrastructure>

## 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	I Year II Year III Year IV Year Fees concession	391	13733150
Financial Support from Other Sources			
a) National	1.BC-MBC Community Scholarship 2. ADI-DRAVIDAR WELFARE Scholarship 3. Minority Scholarship 4.PMSS	348	4555910
b) International	Nil	0	0
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#### 5.1.2 – Number of capability enhancement and development schemes such as Soft skill development, Remedial coaching, Language lab, Bridge courses, Yoga, Meditation, Personal Counselling and Mentoring etc.,

Name of the capability enhancement scheme	Date of implementation	Number of students enrolled	Agencies involved
Coding	05/08/2019	44	GUVI TECHNICAL Training
infosys training Infyqtq	19/08/2019	56	Six phrase training
TECHNICAL TRAINING (CSS CORP)	05/08/2019	13	ICT ACADEMY

MOTIVATIONAL SESSIONS FOR FEMALE STUDENTS	05/08/2019	150	Women Empowerment Cell
MENTORING	15/07/2019	407	All faculty
YOGA CLASSES	08/07/2019	50	Heartfulness foundation
REMEDIAL CLASSES	08/10/2019	407	All subject handling faculty
BRIDGE COURSES	05/08/2019	112	First year Department
SOFT SKILLS ENHANCEMENT	01/07/2019	298	TRAINING DEPT.
APTITUDE SKILLS DEVELOPMENT	01/07/2019	298	TRAINING DEPT.
<a href="#">View File</a>			

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	Awareness Seminar on Job Opportunities via cocubes	57	57	57	7
2019	Infosys Campus Connect -INFYTQ Training	136	136	2	2
2019	Wipro Specific Training	66	66	1	1
2019	Infosys Orientation Program	24	24	6	6
2019	Awareness Seminar on Job Opportunities via cocubes	3	3	0	0
2019	Orientation Program	17	17	0	17
2019	GATE Coaching	16	16	1	1
2019	Awareness programme	32	32	1	1

	for higher studies in Abroad				
2019	APTITUDE SKILLS DEVELOPMENT	32	32	1	1
2019	Pre-placement talk	32	32	29	29
<a href="#">View File</a>					

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
5	5	7

## 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
CSS CORP SS GROUP OF INSTITUTION COMPANIES CSS CORP SS GROUP OF INSTITUTION COMPANIES ZHOHO DSRC Excellencia Tech Mahindra 8 K Miles AVA SOFT KUMARAN SYSTEM MINDTREE Prodapt Solver Minds QSPIDER SutherLand ThinkSync Solution Pvt Limited TVS	2434	175	MILE KAL Infosys CTS Wipro Technologies HCL ATOS SYNTEL TCS Capgemini Technolgy Service India Pvt Ltd SCOPE E KNOWLEDGE MARIAM PLASTICS PVT LTD., TEX BIOSCIENCES COGNIZANT PHARMA SPECTRA CHIP TEST EXCELL POWER PROJECTS DAS PVT LTD SFR LTD CTS WIPRO	976	67
<a href="#">View File</a>					

5.2.2 – Student progression to higher education in percentage during the year

Year	Number of students enrolling into	Programme graduated from	Department graduated from	Name of institution joined	Name of programme admitted to
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	higher education				
2019	9	B.E	ECE	PRATHYUSHA ENGINEERING COLLEGE ANNA UNIVERSITY, CHENNAI CHRIST UNIVERSITY SRM VIT Anna University Sathyabama University Robert Gordon university University of New Heaven	M.E. - COMMUNICATION SYSTEMS M.E. VLSI DESIGN MBA Executive M Tech VLSI Design M Tech Embedded System M.E Applied Electronics M.E VLSI Design MS MS Computer Science
2019	7	B.TECH	BIOTECH	ANNA UNIVERSITY SRM UNIVERSITY SRM UNIVERSITY	M.TECH-BIOTECH M.TECH-GENETIC ENGINEERING M.TECH-BIOTECH
2019	5	B.E	MECH	Anna University Chennai Anna University Chennai CITD HYB UCL (UK) SRM University	M.E (R &AC) M.E (R &AC) M.Tech (MECH ATRONICS) M.Sc (MECHANICAL) M.E
2019	10	B.E	CSE	Prathyusha Engineering College SRM University Vels University Anna University Chennai K.R.P Institute of Engineering	ME-CSE-1 M.B.A-3 ,M.E-CSE-1 M.E-CSE-2 M.E-CSE-2 M.E-CSE-1
2019	5	B.E	CIVIL	Anna University SRM VIT	ME-SE-1 MBA-1 ME-Safety 1 ME CM-2 M.tech/SE-1
<a href="#">View File</a>					

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

Items	Number of students selected/ qualifying
GATE	9

[View File](#)

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

Activity	Level	Number of Participants
ANNA UNIVERSITY ZONAL ATHLETIC MEET	ZONAL	375
ANNA UNIVERSITY ZONAL BALL BADMINTON TOURNAMENT (MEN WOMEN)	ZONAL	200
PRATHYUSHA ANNUAL SPORTS DAY	COLLEGE	1250

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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	ATHLETICS	National	1	0	111416114009	CHANDRA ANIL.A
2019	BALL BADMINTON (MEN)	National	1	0	111415106078	C.NIVESH
2019	BALL BADMINTON (MEN)	National	1	0	111415114005	V.AJITHKUMAR
2019	BALL BADMINTON (MEN)	National	1	0	111416104014	B.CHIDAMBARAM
2019	BALL BADMINTON (MEN)	National	1	0	111416104015	CH.DINESH
2019	BALL BADMINTON (MEN)	National	1	0	111416114059	R.SATHISH KUMAR
2019	BALL BADMINTON (MEN)	National	1	0	111417104040	KAITHEPALLI SRINIVAS
2019	BALL BADMINTON (MEN)	National	1	0	111417114012	S.DINESH
2019	BALL BADMINTON (MEN)	National	1	0	111417114016	V.EZHIL KRISHNA
2019	BALL BADMINTON (MEN)	National	1	0	111417114018	E.GODSON BENJAMIN

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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)

The institute has department wise active cell of student council. This council consists of student elected as class wise student representative and other student class coordinators along with a teaching faculty. This student council actively participates in all activities of the institute with guidance of the teaching faculty coordinator. Actually this council acts as a mediator between the faculty and the students. This council helps the teaching faculties as well as management of the institute both in academic as well as administrative activities as follows: - Coordination of academic activities throughout the semester - Coordination of co curricular and extracurricular activities smoothly Coordination of industrial visits - Coordination of seminars/workshops by inviting external guests - Presenting the problems of students in front of teaching faculty as well as management - To assists teaching faculties heading various academic as well as administrative committees - Motivating the students to actively participate in various activities initiated by the institute. Institute also provides the necessary support to student council for organization of any activity. Council helps the teaching faculty coordinators in many of the other committees as institute magazine, library, hostel, mess, grievance etc

#### 5.4 – Alumni Engagement

5.4.1 – Whether the institution has registered Alumni Association?

Yes

The institute has department wise active cell of student council. This council consists of student elected as class wise student representative and other student class coordinators along with a teaching faculty. This student council actively participates in all activities of the institute with guidance of the teaching faculty coordinator. Actually this council acts as a mediator between the faculty and the students. This council helps the teaching faculties as well as management of the institute both in academic as well as administrative activities as follows: ? Coordination of academic activities throughout the semester ? Coordination of co curricular and extracurricular activities smoothly ? Coordination of industrial visits ? Coordination of seminars/workshops by inviting external guests ? Presenting the problems of students in front of teaching faculty as well as management ? To assists teaching faculties heading various academic as well as administrative committees ? Motivating the students to actively participate in various activities initiated by the institute. Institute also provides the necessary support to student council for organization of any activity. Council helps the teaching faculty coordinators in many of the other committees as institute Magazine, library, hostel, mess, grievance etc

5.4.2 – No. of enrolled Alumni:

14370

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

340000

5.4.4 – Meetings/activities organized by Alumni Association :

04

### 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)

Decentralisation: Prathyusha Engineering College has been carrying out comprehensive decentralisation since its inception, which has tremendously involved the participation of all faculty and staff towards effective and quality Engineering education to the students thereby enhancing the satisfaction level among all its stakeholders. Various committees have been constituted under the following categories, 1. Institute Level 2. Department Level 3. Student Level COMMITTEES Examination Cell Local Grievance Redressal Cell Women Empowerment Cell AntiRagging Committee Antisocial Harassment Cell Centre For CoCurricular And ExtraCurricular Activities Centre For Alumni Affairs Coordinators For First Year Transport Stores Time Table Coordinator Disciplinary Committee Career Guidance Cell Technical Club Coordinator Placement Cell Training Division Systems In Charge Entrepreneurship Development Cell Special Events Professional Society / Conference/ Coordinator Projects/ Miniprojects Newsletter, Handbook, EMagazine Purchase Committee IQAC RD Quality Improvement Cell, NPTEL/MOOC/ Swayam Department Level: ? The curriculum enrichment is implemented through the initiation of various Technical Clubs, where the faculty coordinator of each club takes the responsibility of organising various programmes to nurture the practical knowledge of the student with the recent technologies. ? The overall Coordinator of the Institute Level Committees coordinates the activities along with the Department Level Coordinators. ? The feedback from students are obtained through Class Committee Meetings and follow up is ensured by the Class Advisors. Student Level: Students are trained to acquire leadership skills by organising various technical and Extra Curricular/ Co Curricular activities such as Symposia, Cultural Events, Sports Events, State Level and National Level Contests/ Workshops. The Governing Council: The members of the Governing Council would be responsible for final decisions on Financial implications, Resource procurement, infrastructure expansion for research development, Memorandum of Understanding with various organisations, faculty salary structure, faculty and students welfare schemes etc. The members of the Management then execute these decisions with the help of all the concerned staff. The Head of the Institution is the Principal and administers the functioning of academic activities, Admission strategies and also encourages Corporate Social Responsibility, with the help of the Head of the Departments and their faculty. The staff fraternity comprises of the following, 1. Teaching Staff 2. Non Teaching Staff 3. Administrative Staff Besides , the responsibilities carried out by the faculty under various activities, the staff also involve in the following activities, Teaching Faculty: 1. Class Advisor 2. Mentor 3. Laboratory In Charge 4. Project / Miniproject Coordinator 5. Technical Club Coordinator 6. IEEE Professional Society Advisors 7. International/ National Conference Coordinators 8. Placement Coordinator 9. Training Coordinator 10. Cultural / Sports Coordinators 11. NSS activities 12. Swachch Bharath Coordinators 13. IQAC Coordinators 14. RD Coordinators 15. Examination Coordinators 16. Admission Coordinators 17. NBA/ AICTE/ Regulatory Body Coordinators 18. Local Grievance Cell Coordinator 19. Anti Ragging Committee Coordinator 20. NPTEL/ MOOC/ Swayam Coordinator 21. Website Coordinator 22. Alumni Coordinator 23. Entrepreneurship Development Cell Coordinator Non Teaching Faculty: 1. Laboratory In Charge 2. IQAC members 3. Anti Ragging Committee Members 4. Admission Committee Members Administrative Staff: 1. Management of Staff and students data 2. Ensuring students and staff welfare

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
Curriculum Development	<p>Prathyusha Engineering College is permanently affiliated to Anna University and adheres to the curriculum prescribed by Anna University, following the Regulations of the University. To upgrade the additional skills required by the Industries, 56 Technical Clubs are constituted in the departments enabling and facilitating students to train themselves. They are exposed to recent technologies through 1. Industry Expert Interaction 2. Industrial Visits 3. Internships 4. Projects/ MiniProjects 5. Hackathons 6. Online Certifications</p> <p>These Technical Clubs are organized under two domains, Hardware and Software.</p> <p><b>ELECTRONICS AND COMMUNICATION ENGINEERING</b></p> <p>NAME OF THE TECHNICAL CLUB</p> <p>1 NI LAB VIEW Academy Communication Robotics Automation Embedded System Telemedicine Internet Of Things(Iot) For Health Care Service Antenna Design RF Component Design Testing IC Design Testing VLSI Design Signal Processing Image Processing Artificial Intelligence Pattern Recognition Wireless Sensor Networks</p> <p><b>MECHANICAL ENGINEERING</b></p> <p>1 Auto CAD Ansys Bike Assembly Car Assembly Catia CNC Manufacturing Process Club ProE / CREO Automation Club</p> <p><b>ELECTRICAL AND ELECTRONICS ENGINEERING</b></p> <p>1 Professional Lighting Design Club Manufacturing Process SupportMotor Assembly Club Manufacturing Process SupportElectrical Wiring Club ETAP Club PLC And SCADA Club Green Energy Club Instrumentation And Control Club PCB Design Power Electronics And Drives Club NI LabVIEWControl Automation Club Digital Logic Circuit Club</p> <p><b>CIVIL ENGINEERING</b></p> <p>TECH CLUB NAME</p> <p>1 Architectural Club Enviro Club Structural Club Survey Club CAD Club</p> <p><b>BIOTECHNOLOGY</b></p> <p>1 Bioinformatics Tools And Application</p> <p><b>SOFTWARE DOMAIN:</b></p> <p>1 FOSS Club Mobile App Development Coding Club Analytics Club Intelligent Systems Club Computing - Tech Club CSec EHack Club (Cyber security Ethical Hacking) WebTech Club Hardware Networking Club Graphics Gaming Club Project Management Club Agriculture in Computer Science Club Dr.Kalam's Innovation Club Tessy Thomas Club (</p>

	Women in Computer Science) NextStep Club
Teaching and Learning	<p>Teaching and Learning Specific pedagogical approaches are adopted through Quality Teaching Methodologies to motivate the students towards self learning traits which are the ultimate requirements of any recruiting company,</p> <ul style="list-style-type: none"> <li>• Students are encouraged to undertake NPTEL Online Certifications from the Second Year onwards.</li> <li>• Power point Presentations for vivid explanations</li> <li>• Animated videos to bring Engineering to reality</li> <li>• Execution of Miniproject to gain practical knowledge</li> <li>• Seminars to students beyond the curriculum</li> <li>• Concept a Day to be shared by a student with at least one technological concept <ul style="list-style-type: none"> <li>• Role plays by students</li> <li>• Quiz on topics related to the course</li> <li>• Online Quiz through modern tools</li> <li>• Assignments with deadlines and effective utilisation of the Library resources</li> <li>• Real Time Case studies</li> <li>• Webinars</li> <li>• Guest Lectures by Eminent from Academia and Industrialists</li> </ul> </li> </ul>
Examination and Evaluation	<p>A centralised system is designed to organise Internal Assessment Tests and University Examinations. As per Anna University Regulations, the college conducts Internal Assessment Tests with Higher order Bloom's Taxonomy and also ensures the Course outcomes are satisfied. Three Internal Assessment Tests are conducted for students to examine the understanding level of the syllabus covered in each course as follows, Internal Assessment Test 1 : Unit I Internal Assessment Test 2 : Unit II and III Internal Assessment Test3 : Unit IV and V Model Examination : All Units There is effective mentoring system who ensure that students focus on their academics during these tests and also emphasise on the significance of performing well in these tests. The faculty handling subjects for various sections of students of various departments would value the answer scripts as per Anna University norms and make the students aware of their mistakes and how to improve their presentation and performance in the ensuing Examination. Parents are also made aware of the performance of their wards by sending SMS to their registered mobile numbers</p>

and are called for a meeting for necessary interaction. Internal marks are awarded to the students based on their performance in the Internal Assessment Tests in 3 phases spread across a semester, after which the students are prepared for the End semester University Examinations. Students are also advised to maintain an minimum attendance of 75 to attend the University Examinations

Research and Development

Prathyusha Engineering College always nurtures the research instinct amongst the faculty and students. There is an exclusive Research and Development Cell which concentrates on strengthening research in all the departments especially interdisciplinary research and to pursue funded research. The cell strives to receive funds from AICTE, DST, BRNS, CSIR, accreditation from SIRO, financially assisted research oriented workshops and seminars by IEEE, Funded International and National Conferences, etc. Faculty are encouraged to publish their research or review articles in referred journals indexed under SCI, Scopus and Thomson and Reuters. Faculty are also sponsored to participate in International Conference abroad and outside Chennai. Innovative projects and research are also encouraged to be extended as a patent and startups are also encouraged for the outgoing students. The Cell is also in the process of establishing an Incubation Cell for innovative Projects

There are 6 Centres of Excellence to pursue research in various domains with the following aims and objectives, 1. Educate the students using Modern Tools 2. Enable Institute - Industry Interaction 3. Enable Industry based training 4. Internships in these Industries 5. Build Employability Skills 6. Placement in these Industries 7. Build a Research oriented Environment

The list of Centres of Excellence are as follows, • IBM CAREER EDUCATION CENTRE : Training is scheduled for all Second Year students with basic software foundation skills. Advanced Courses are provided for Interested III Year students. • NATIONAL INSTRUMENTS LAB VIEW ACADEMY: Training is provided for Interested students in modules to enable certifications such as CLAD, CLD and

CLA. • CISCO ACADEMY: It encourages students in Networking Courses and also enables students to get certified in CCNA courses. • ROBOTICS LEARNING CENTRE EYANTRA: This centre trains the students to build applications in automations using Embedded C with basic processors such as Arduino and other processors such as Raspberry Pi, Microcontrollers and ARM processors • CENTRE FOR RENEWABLE ENERGYNIWE: This Centre exposes the students to research oriented concepts with the development of radiation models and involvement in Green Corridor Project of SRRA. • PEC TVS HARITA TECHSERV LAB: The Mechanical Engineering Students are trained in design automotive parts using CATIA and DELMIA recent versions.

Library, ICT and Physical Infrastructure / Instrumentation

PEC has housed in a spacious area of 50, 000 sq ft, fully computerized and airconditioned with Reference Section, Magazine Section and Stack Area with more than 60,000 text books, reference books, dictionaries, encyclopedia, code books, and data sources books and reference volumes stacked for the benefit of staff and students. A comprehensive, bar coded, computerized library and reading hall equipped with internet connection, email facility, audio video CD and DVD, national and international journals, Technical Magazines, past students work in digital format and photocopying facilities are also available. ICT Infrastructure: The digital Library Dspace provides online resources for interested students in Computer Assistant Learning to learn and certify in various courses within and beyond the specified curriculum, such as 1. NPTEL Online Certification Courses from Second Year onwards 2. MOOC Classes 3. Online Certification course by Udemy, Coursera, Sololearner, etc. 4. Webinars 5. Video Lectures by Eminent Academicians. Details of Library: Details Available Books No. of titles 11575 No. of volumes 57879 Journals 6 B.E. ECE 6 B.E. CSE 6 B.E. EEE 6 B.E. MECH 6 B.E. CIVIL 6 B.TECH BT 6 M.E. Structural Engineering 6 M.E. Power Electronics and Drives 6 M.E. Communication Systems 6 M.E. Computer Science and Engineering 6

Human Resource Management

Recruitment/ Promotion: Based on the



AICTE norms, deficiency of faculty are identified and advertisements are posted in Websites and dailies for efficient recruitment. After careful scrutiny of the resumes, interviews are scheduled for short listed candidates. Selection of candidate is done strictly on the basis of qualification experience. The evaluation of teaching skills, conceptual clarity communication skills and confidence is carried out by the authorities of the recruiting committee constituted by the Governing Council comprising of Experience faculty from various institutes like IIT, NIT etc. for finally selecting the best talent for the organization. The recruitment procedures, service rules and promotion policies are made transparent and employees are benefitted. General Welfare Schemes: ? Preference is provided for wards of faculty studying at the college. ? Group insurance is provided for all the staff in case of emergencies. ? Food and Transport facilities are provided to the staff at nominal cost. ? Employee's salary will be credited in the bank account directly, the bank ATM counter works all days in the campus. ? Pay slips are issued to the employees every month. ? NonTeaching staff are provided with Provident Fund facility. ? For professional development of the faculty member, the institute delegates the faculty and staff to undergo development programs outside the institute, provides technical resources and financial assistance to undertake such development programs. ? The institution encourages the employees to their promotional activities in the form of higher education, presenting research papers in National/International conferences with financial assistance. ? Faculty are felicitated and recognised for their academic achievements and for implementation of special initiatives

Industry Interaction / Collaboration

The college always introduces new and updated initiatives in bridging the gap between the Industry and academia. In this direction, the college has signed Memoranda of Understanding with various industries to ensure Training, Internships, Guest Lectures, Industrial Visits, Faculty Development Programmes

and Recruitment of students. The list of organisations with which MoUs have been signed are as follows, 1. National Institute of Wind Energy SRRA Unit 2. IBM - Career Education and Cloud Computing 3. Infosys Campus Connect 4. TVS Harita Tech Serv Pvt. Ltd. 5. National Instruments - LabVIEW 6. Animal House recognised by CPCSEA 7. ICT Academy 8. Synchromax 9. CISCO Faculty in association with the students also are motivated towards research with the infrastructural facilities available in these Centres of Excellence. There is also an Industry Institute Partnership Cell which manages to perform the bridging process.

**Admission of Students**

The students from all over the State are invited to the college to visit the facilities and also are introduced to the basic concepts of each discipline of Engineering through free Summer Training Courses. • Project Exhibitions are conducted for students to understand the infrastructural facilities of the college and also get acquainted with the existing faculty of the organisation to understand the Education process of the college. • For under graduate programmes: the students are admitted through central process conducted by a state government body DTE (Directorate of Technical education) and Anna University, Single window system • For post graduate programmes: the students are admitted through a common entrance test (TANCET) conducted by the Anna University. • Tuition fee waiver is provided to meritorious students at the time of admission.

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

E-governance area	Details
Examination	<ul style="list-style-type: none"> <li>• The Internal Assessment Schedule, Seating Arrangement are made available at the website after receiving the Syllabus completion report</li> <li>• Maintain database / details required for Anna University and updating continuously.</li> <li>• Monitoring uploading of attendance and Internal Marks as per the requirement of AU.</li> <li>• Maintain Result Analysis, Rank List of all UG PG.</li> <li>• Maintain the cordial relationship with AU and address exam related issues for the</li> </ul>

students and faculty. • Plan, prepare and conduct the practical examinations as per AU schedule. • Maintain the cordial relation with cluster colleges for smooth conduction of theory examinations. • Provide the hospitality for internal and external examiners during the Anna University examinations. • The Internal Assessment Marks are filled in a commonly available Google sheet which is protected after entry after which result analysis is done and readily available at the Examination Cell

Finance and Accounts

• Accounts record is maintain on ERPTally software. • Online Fee payment facility is available for student. • Managing assets and all applicable accounting info.

Student Admission and Support

• Directorate of Technical Education offers online applications for Engineering Aspirants. Students are able to fill online option form and can do confirmation of admission by freezing institute option and reporting to PEC. • Institute also confirm student admission online. Institute admission form and other admission related data is available on website of institute and mobile apps. • Online feedback system is made available through website of institute.

Planning and Development

• Institute Vision, Mission is available on website. All activities in the institute are adhering to Vision and Mission of Institute. The following details are regularly updated in the Institute's Website, 1. Programme Outcomes of the all the programmes 2. Internal Assessment Test Schedule, Coaching class schedule. 3. Transport schedule 4. Daily activities Industry Institute Interaction, Industrial Visits, Guest Lectures, etc. Posted as upcoming events before the event and the photos are posted after the event. 5. Online Admission Portal 6. MoUs signing with industries. 7. Important announcements 8. Academic Schedule for both semesters. 9. Activity Planner 10. Individual Departments and their activities 11. Placement activities • The signing of MoU with the reputed industries supports to interact our faculty members with them to identify the industrial related problems. • The team from our college submits the

	proposal to the funding agency in collaboration with the industry to solve the identified problems.
Administration	<ul style="list-style-type: none"> <li>• Office maintains all student data related to their admission, attendance, and Scholarship etc.</li> <li>• Student fees, other finance related data is maintained through Tally software.</li> <li>• Staff profile has been maintained in a centralised system</li> <li>• Staff attendance is maintained using a centralised Biometric Attendance System</li> <li>• Transport request for students and staff are governed through google sheets shared by the Administrative Office.</li> <li>• The online feedback from the students is received through Google Forms.</li> <li>• Staff Performance Appraisal is obtained through a Google sheet shared with all the staff.</li> </ul>

### 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	Dr.P. Jayaraman	SAE INDIA COLLEGIATE CLUB	SAE	1500
2019	Dr.V.Jayseelan	SAE INDIA COLLEGIATE CLUB	SAE	1500
2019	M.Gopinath	ISHRAE Members	ISHRAE	1500
2019	N.Ramasamy	Int. conf on Advances in Mechanical Engineering	SAE	1500
2019	Dr. P. Dhasarathan	IEEE membership	IEEE	3500

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

Year	Title of the professional development programme organised for teaching staff	Title of the administrative training programme organised for non-teaching staff	From date	To Date	Number of participants (Teaching staff)	Number of participants (non-teaching staff)
2019	Two Days National Workshop on Recent		19/07/2019	20/07/2019	15	0

	Trends in Automobile Engineering					
2019	Industry Expert Interaction on CREATION OF MODELLING AND DRAFTING IN CATIA V5		04/01/2020	04/01/2020	7	4
2019	Seminar conducted on Design Fundamentals in Mechanical Engineering		05/02/2020	05/02/2020	12	3
2019	Industry Expert Interaction on Fundamentals of ANSYS 5.0 SOFTWARE		21/09/2019	21/09/2019	9	3
2019	FACULTY WORKSHOP "PEDAGOGY AND ACTIVE LEARNING" BY INFOSYS		01/11/2019	01/11/2019	41	0
2020	One day national seminar on Recent trends in renewable energy resources and grid integration		04/01/2020	04/01/2020	8	0
2020	INTERNATIONAL CONFERENCE ON NOVEL APPROACH OF BIOTECHNOLOGY AND BIOENGINEERING HEALTH		06/03/2020	07/03/2020	20	0

	CARE SYSTEM					
2020	Animal tissue culture workshop		10/01/2020	11/01/2020	7	1
2020	Impact of 5G technology		29/05/2020	30/05/2020	16	0
2020	FOUNDATION CONCEPTS in labview-level 2	FOUNDATION CONCEPTS in labview-level 2	21/05/2020	21/05/2020	16	0

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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
FDP on Applied Mathematics Scientific Computation for engineering Research	1	04/11/2019	19/11/2019	6
ATAL Short term course on Artificial Intelligence	1	11/11/2019	15/11/2019	5
FDP-OUTCOME BASED EDUCATION NBA PROCESS	5	28/05/2020	01/06/2020	5
FDP-MOLECULAR DOCKING TECHNIQUES	9	10/06/2019	16/06/2019	7
FDP ON RECENT TRENDS IN ELECTRONICS INDUSTRY	1	18/05/2020	23/05/2020	6
FDP ON EFFECTIVE PROPOSAL WRITING FOR RESEARCH FUNDING	1	13/05/2020	18/05/2020	6
ATAL FDP on Robotics at IIITDM Kanchipuram	1	26/09/2019	30/09/2019	5

FDP on " Artificial Intelligence-ATAL" at IIITDM, Kancheepuram	1	04/12/2019	08/12/2019	5
LATEX - Chevalier T. Thomas Elizabeth College for Women	1	27/04/2020	01/05/2020	5
WEBINAR SERIES ON REMOTE SENSING IN CROP MONITORING AND ASSESSMENT - IIRS OUTREACH PROGRAM	1	19/05/2020	09/06/2020	14
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6.3.4 – Faculty and Staff recruitment (no. for permanent recruitment):

Teaching		Non-teaching	
Permanent	Full Time	Permanent	Full Time
17	17	14	14

6.3.5 – Welfare schemes for

Teaching	Non-teaching	Students
Diwali gift, Food and Transportation concession	Diwali gift and Provident fund	Sivaramaiah award for students for securing CGPA above 8.5 and UNIVERSITY RANK HOLDERS AWARD (CASH PRIZE)

**6.4 – Financial Management and Resource Mobilization**

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

Yes, Statutory Audit is conducted by the practising Chartered Accountant, appointed by the Managing Committee of the Trust. Audit is normally conducted during August / September every year. CA checks and verifies all books of accounts relevant to their audit and submitted the Financials and Notes on accounts, to the Managing Committee.
---

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
Prathyusha Engineering College , Slick alpha and Tesla Minds, Chennai	399160	Hydroponics Project with CVRDE 3 days Statelevel STUDENTS WORKSHOP on "INFYTQ" by INFOSYS Consultancy - Enviro informatics software tools SIH 2019 (Telepicking interface

item picking robotics)  
SIH 2019 (Telepicking  
interface item picking  
robotics) IMTEX Design of  
CMOS on Chip Integrated  
Antenna for Wireless  
Communication

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6.4.3 – Total corpus fund generated

3101454

## 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	ANNA UNIVERSITY	Yes	Principal IQAC Coordinator
Administrative	Yes	Chartered Accountant	Yes	Principal Committee Members

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

1) Mentor Meeting – Once in a semester. 2) Internal Assessment Analysis Four times in a semester 3) Induction day – Once in a year.

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

- Support staffs are motivated to take participation in skill development program like PMKVY. - For the supportive staff at college level Training programmes on computer applications, filing etc., are organized periodically. - Insurance of all Non teaching staff.

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

- Every year institute is organising International Conference to improve research culture in the Institute. Students and faculties from institute as well as from outside the institute used to present their Research paper. - To promote project based learning Project Exhibition is organised every year - Students are encouraged for student's internship programs.

6.5.5 – Internal Quality Assurance System Details

a) Submission of Data for AISHE portal	Yes
b) Participation in NIRF	Yes
c) ISO certification	No
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	Outcome based Education - Training	15/06/2019	15/06/2019	15/06/2019	137



2019	NBA Academic Audit	22/07/2019	22/07/2019	27/07/2019	135
2019	Academic Performance Audit	19/08/2019	19/08/2019	22/08/2019	55
2019	NBA - SAR Submission	21/12/2019	21/12/2019	21/12/2019	9
2019	NAAC - AQAR Submission	16/12/2019	16/12/2019	16/12/2019	9
2020	NBA Internal Audit	17/01/2020	17/01/2020	23/01/2020	135
2020	Academic Performance Audit	20/01/2020	20/01/2020	23/01/2020	56
2020	NBA Internal Audit	03/02/2020	03/02/2020	06/02/2020	56
2020	Academic Performance Audit	05/03/2020	05/03/2020	09/03/2020	52
2020	Webinar on Outcome based Education	14/03/2020	14/03/2020	14/03/2020	527
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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
YOGA PRACTICE OF QUIETING THE MIND	17/07/2019	17/07/2019	296	128
TEACHING GIRL BRAVERY	19/08/2019	19/08/2019	299	95

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
<ul style="list-style-type: none"> <li>• 50 of the energy consumption is met by a 250KW Grid Connected Rooftop Solar PV Panel.</li> <li>• CFL Bulbs are replaced by LED Lights</li> <li>• Green Environment by planting more number of saplings and trees</li> <li>• Efficient usage of water by recycling</li> <li>• Ecosystem balancing by using kitchen and food waste to produce natural fertilizers</li> </ul>

7.1.3 – Differently abled (Divyangjan) friendliness

Item facilities	Yes/No	Number of beneficiaries
Physical facilities	Yes	0

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

#### 7.1.4 – Inclusion and Situatedness

Year	Number of initiatives to address locational advantages and disadvantages	Number of initiatives taken to engage with and contribute to local community	Date	Duration	Name of initiative	Issues addressed	Number of participating students and staff
2019	1	1	22/10/2019	1	Paparampakkam village camp(NSS CAMP)	CLEANLINE SS	5
2019	1	1	11/12/2019	1	Food distribution to disabled children(Thiruvallur)	Social	14
2019	0	1	05/12/2019	1	Workshop on awareness of applications of Drones to school students in Nandhavaram (dcpalli) village	Technology upgradation	150
2019	0	1	05/12/2019	1	Workshop on awareness of applications of Drones to school students in Karata	Technology upgradation	150

					mpadu village		
2019	0	1	05/12/2019	1	Workshop on awareness of applications of Drones to school students in Krishnapuram village	upgradation	150
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7.1.5 – Human Values and Professional Ethics Code of conduct (handbooks) for various stakeholders

Title	Date of publication	Follow up(max 100 words)
Undertaking Booklet	03/07/2019	Instructions for various undertakings are provided in the HandBook and individual undertakings for the Dayscholars and Hostellers are given during Induction Day which have to returned to the respective mentors after signing. This Booklet consists of the following, 1. Undertaking for gadget usage 2. Affidavit for Ragging 3. Undertaking for Hostel Students 4. Career Option form and respective Undertaking form.
HandBook for the Inducted students every year	03/07/2019	A handbook consisting of all data regarding the facilities available, reachable contacts for any emergencies (Antiragging, Transport, Class Advisor, Mentor, HOD, etc.) are provided to the students during the induction Day. This handout also contains Anna University Rules and Regulations along with the rules to followed within the campus. The instructions for usage of electronic gadgets are also attached in the Handout. The Academic Schedule for the I Semester students is

		attached in the Handout.
Hostel Rules Book	03/07/2019	The Hostel Rules Book consisting of the Personal information of the student, facilities available in the Hostel, Leave rules and other rules to be followed in the Hostel to continuously avail the Hostel facilities are issued to the students during their admission to the Hostel

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

Activity	Duration From	Duration To	Number of participants
ORIENTATION PROGRAMME FOR FIRST YEAR STUDENTS	19/08/2019	30/08/2019	311
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#### 7.1.7 – Initiatives taken by the institution to make the campus eco-friendly (at least five)

- Implementation of Rainwater Harvesting System - Implementation of Sewage Treatment Plant to treat and reuse waste water for plantation - Implementation of Solid waste Management System - Green environment consciousness is ensured with Sewage Treatment Plant and Recycling plants, Rain Water harvesting in all buildings and having more than 850 trees on campus.

### 7.2 – Best Practices

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

1. Title of the Practice: Assessment of Programme Outcome 2. Goal: The aim of the practice "Assessment of Programme Outcome" followed by the Institute is to create a platform to increase in Students Performance and Placement, motivation for higher studies to improve global economy and faculty productivity. 3.The Context: Analysis of the semester result is done by Academic Council to evaluate the performance of the students in every semester and corrective actions are taken to improve the results if required. The placement records of every year are regularly analyzed and industry feedbacks are taken for their employees from this Institute. More industry oriented training is imparted to students for enhancing their skill. Innovative project works are given to students to enhance their ability to take up higher education and research in the recent technological fields. Student's feedback is taken for each respective faculty in every semester and the same is analyzed by the Academic Committee to fill up any gap area associated with their performance. 360 Degree evaluation (Students feedback, Head of the Department's report, Principal's report, and Administrative feedback) for faculty is done. Weaknesses of the faculty members are found and accordingly, training and orientation programme are arranged for them as corrective action. All faculty members are encouraged to take up research work and to obtain higher degree and research project funds from outside agencies to establish world class research laboratories and increase the status of the Institute. 4.The Practice Mapping the distribution of responsibilities in teaching and learning to effect significant Strategic change and enforce institution wide policies. Capability of the concerned faculty is identified for successful implementation of reforms within and

across departments to strengthen their commitment to improving quality teaching. Heads of departments is given explicit responsibilities for fostering quality teaching and learning and to ensure that the leadership responsibilities are matched with the resources and the tools needed to deliver results. An environment is created where everyone (teacher, student, support staff, etc.) operates within a clearly identifiable leadership structure. It is ensured that the teaching and learning framework can be easily adapted by each faculty member to reflect their values, ethos and modus operandi and then applied in their own teaching practice. Progress in implementing the teaching and learning framework across each level of the institute is monitored and reports are analyzed by the heads of departments and Principal. Appropriate platforms exist for sharing experience and initiatives across the institute. 5.

Evidence of Success 7.2.1 - Describe at least two institutional best practices Activity based Learning 1. Title of the Practice: Activity based learning 2.

Goal: The aim of the practice "Activity based learning" is to hone the leadership skills amongst the students in various activities including technical activities, extra and co-curricular activities being conducted within the campus with the competitive spirit amongst various departments and also would improve the networking across various departments and batches of students. This would enhance the confidence level of the students during campus interviews and also the technical knowledge of the students. 3. The Context: There is a common practice of skilled students who are self motivated and who possess self confidence, participating in intercollegiate competitions.

However, there still remained a few students with skills with less confidence who hesitate to participate in various activities such as paper presentations, symposia and conferences. To encourage students with skills and to expose their talents, this initiative was adopted for maximum participation of students in various activities. Analysis of this practice is done using statistics of participation of students in various activities and practices and the gradual improvement in excelling in their performance. The process was evaluated using the participation statistics in external competitions. 4. Process and Evidence

of Success: The responsibilities of students were assigned according to the interests and voluntary attitude of the students in organizing various activities such as advertising those activities within the campus and conducting the events successfully. The students were permitted to form their own committees for organizing the individual events. Creative thinking was enhanced amongst the students in bringing about innovativeness in the conduct of events and to communicate the same with the students' community. Faculty meticulously guided the students to initiate the process and conduct the events successfully after proper planning. The level of students' competency was also analyzed and was utilized to strengthen their hidden skills in an open forum. The evidence of success is that students are able to perform independently and to expose their skills without hesitation. The networking amongst all the students improved and they were able to identify their own senior mentors for their area of specialization. Technical Premier League 1. Title of the

Practice: Technical Premier League 2. Goal: The aim of the practice "Technical Premier League" is to bring out the technical skills of the students by forming specific teams to participate in activities such as Technical Paper presentations, Project Presentations, Robo and Drone races etc. 3. The Context:

Students were assigned responsibilities of contacting HRs from leading industries as resource persons for various events for better interaction with industries. Students were also provided with an open forum to interact with industrialists for future mentoring of their projects to take them forward towards various career options. They were given an opportunity to award the winning students with the collected and available resources. The students gain leadership and qualities to attain job readiness by being aware and participating in competitions raised to global standards. The standard of projects are evaluated by Industry experts for real time applications. 4.

**Process and Evidence of Success:** The responsibilities of students were assigned according to the interests and voluntary attitude of the students in organizing various activities such as advertising those activities within the campus and conducting the events successfully. The students were permitted to form their own committees for organizing the individual events. Creative thinking was enhanced amongst the students in bringing about innovativeness in the conduct of events and to communicate the same with the students' community. Faculty meticulously guided the students to initiate the process and conduct the events successfully after proper planning. The level of students' competency was also analyzed and was utilized to strengthen their hidden skills in an open forum. The evidence of success is that students are able to perform independently and to expose their skills without hesitation. The networking amongst all the students improved and they were able to identify their own senior mentors and mentors from other leading organizations for future enhancement of their projects in their area of specialization.

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

<http://www.prathyusha.edu.in/>

### 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

Prathyusha Engineering College is led by a visionary Chairman, Sri. P. Raja Rao who has a broad vision of providing Quality Education to the students enabling them to be dynamic professionals in their areas of interest in their career.

The Teaching - Learning process is implemented effectively by visualizing concepts in the designed curriculum through value based learning and innovative teaching methodologies introduced by Dr. P.L.N. Ramesh, our dynamic Principal. There are 56 Technical clubs - Software and Core Domain Clubs spread across all the available disciplines of Engineering and students are provided with a learningenabled environment. The Industry Expert Interactions organized in association with eminent industries and organizations like IBM India Pvt. Ltd., Glosys, Wipro Technologies, etc. trigger the critical thinking of the students towards a real time environment. Handsontaining/ Workshops handling software and hardware tools with recent technologies in various domains are scheduled meticulously in alignment with their curriculum and beyond the curriculum. These programmes train the students internally to compete globally in various National Level Project/ Coding Contests held in various leading organizations like IIT, NIT, etc. Internal Coding Contests and Miniproject contests are organized every semester which ensure that all the students execute at least one mini project per semester in their field of interest by experimenting on what they have learnt. This effort obviously enhances their confidence level right from their second semester onwards towards their final year project. They also improve their presentation and documentation skills simultaneously, the outcome of which they are moulded with Professional ethics and responsibility.

Students also attend webinars conducted by IEEE professionals and technical professionals and interact actively with the resource persons thereby widening their practical knowledge. Every Technical Club encourages interested students to undergo online certifications in various courses like Basic foundation courses in Matlab, R Tool Programming, Machine Learning, Python Programming.

Hence, the students are able to confidently build their profile with the Stateoftheart infrastructure and the learning environment facilitated by the experienced faculty in various areas of specialization. The Student members of Technical Clubs are also members of Professional Societies such as IEEE, CSI, SAE, IE(I) etc. which encourage students to organize technical events and this commitment broadens their contacts, strengthens their leadership skills and

sharpens their creativity. These Technical Clubs also motivate the entrepreneurially inclined students to design and develop innovative products as business models towards start ups funded partially by the institution. There are also 7 Centres of Excellence which additionally train the students with International Level Certifications like CLAD, CLD, etc. which naturally fetch them bright career opportunities in Core Industries. The continuous association with Industries through such activities attract internship and recruitment of the meritorious students. Hence, students graduating from the college are equipped with employability and entrepreneurship skills and emerge as successful Engineers in all disciplines.

Provide the weblink of the institution

<http://www.prathyusha.edu.in/>

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

1. Increase University ranks 2. Faculty members and students are motivated to publish research papers(Interdiscipline area) 3. Faculty members and students are motivated to do higher studies. 4. Institute has planned to encourage more number of faculties to complete their doctorate or at least register for the same. 5. Participation of students in national/international events. 6. Train the students in upcoming technologies to meet industry expectations. 7. Get more Funded projects from funding agencies. 8. Conduct of department activities by renowned alumni, professional bodies and MOU. 9. Strengthening the industry institute interaction by conducting various events such as guest lectures, industrial visit, workshop and faculty development programmes. 10. Students are motivated to involve in social relevant projects and activities. 11. Organise environmental awareness, personality development and entrepreneurship development programmes. 12. The institute has planned to increase the certification of NPTEL courses by more number of students as well as faculties. 13. Institute has planned to contribute in social activities by arranging the camp in rural area through NSS (National Service Scheme) cell. With the conduction of this camp various social awareness programs will be conducted with active participation of the student coordinators.