CRITERION 1	VISION, MISSION AND PROGRAM EDUCATIONAL OBJECTIVES	50

1. VISION, MISSION AND PROGRAM EDUCATIONAL OBJECTIVES (50)

1.1 State the Vision and Mission of the Department and Institute (5)

Vision of the Institute

To provide high quality skill oriented technical education to the rural students to accomplish the global requirements.

Mission of the Institute

To provide modern facilities for imparting value based teaching – learning practices, enrich the faculty members with continuous learning and career guidance for the students.

Vision of the Department

To provide quality education and to produce technical manpower of global standards in Electronics and Communication Engineering with capabilities of adapting to new challenges to address the social needs.

Mission of the Department

M1- To develop skillful Diploma Engineers in the pursuit of excellent technical knowledge in industry and higher education.

M2- To develop ability among the students to understand the technical concepts through continuous learning of emerging technology.

M3- To provide ethical and value based education by imparting activities to address the social needs.

1.2 State the Program Educational Objectives (PEOs) (5)

At the end of program, the students may be able to,

PEO1: Accomplish the basic design and device integration knowledge in the field of Electronics and Communication Engineering.

PEO2: Enlighten with continuous learning in modern technologies and design tools.

PEO3: Assimilate the spirit of activity, teamwork and ethical values in the society as responsible engineers.

1.3 Indicate where and how the Vision, Mission and PEOs are published and disseminated among stakeholders (10)

A. Adequacy in respect of publication and dissemination (2)

The Vision, Mission and PEOs are adequately published as indicated below

- **College website**: www.papolytechnic.org
- **Department page on the college website:** http://www.papolytechnic.org/ece.html
- **Department brochure**
- **Department news letter**
- **Department academic calendar**

The Vision, Mission and PEOs are disseminated as follows

- **HOD's chamber**
- **Staff rooms**
- **Class rooms**
- **Laboratories**
- **Department library**
- **Department notice board**

B. Process of dissemination among stakeholders (2)

The Vision, Mission and PEOs are published and disseminated among the stakeholders through

- **Parents meeting**
- **Alumni meeting**
- **Symposium**
- **Guest Lecture/Seminar/Workshop**
- **Class committee meetings**
- **Orientation program for freshers**
- **Other association activities**

C. Extent of awareness of Vision, Mission & PEOs among the stakeholder (6)

The awareness of Vision, Mission and PEOs are created among the internal and external stakeholders

Internal Stake Holders

- **Management**
- **Governing Council Members**
- **Faculty Members**
- **Non-Teaching Staff Members**
- **Students Representatives**

External Stake Holders

- **Parents**
- **Employers**
- **Industry Experts**
- **Alumni Members**

1.4 State the process for defining the Vision and Mission of the Department, and PEOs of the program (15)

Considering the institutional Vision and Mission, the Vision and Mission Statements of the Department are defined by involving the stakeholders.

A. Description of process for defining the Vision and Mission of the Department

The Following process was adopted in developing Department's Mission and Vision statements:

- **Detailed analysis was conducted by considering internal stakeholders including management and alumni.**
- **All the informations were collected, summarized and the faculty listed the most critical areas to be addressed by the department.**
- **Based on the feedback given by the stakeholders the departmental faculty developed a strong and meaningful vision and mission. The mission was also finalized based on the following components like Quality education, Professional career, Higher education, Innovation and Creativity and Lifelong learning.**
- **A detailed survey on various college websites was done to frame our Vision and Mission.**

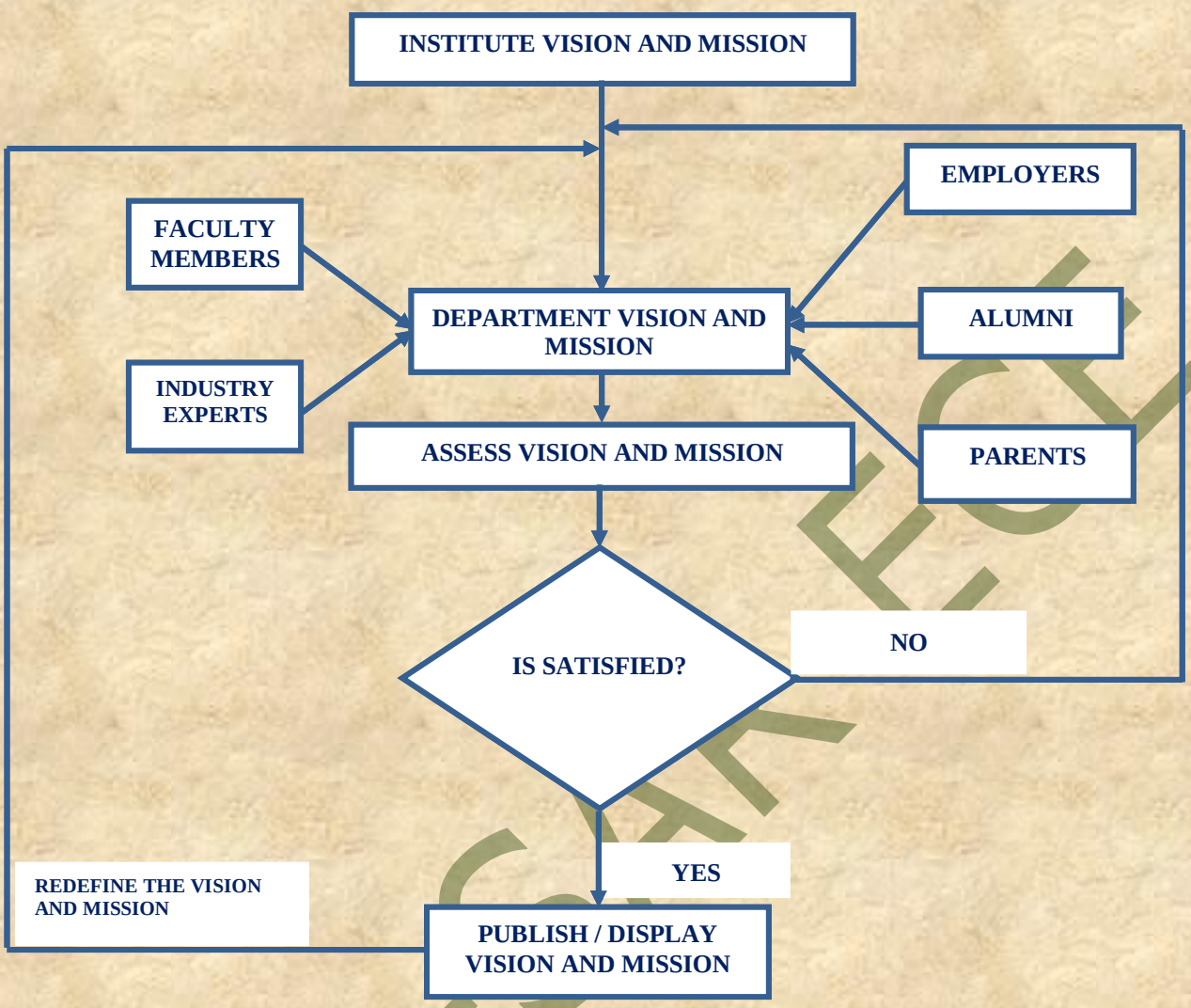

Figure 1.4.1: Process of defining the Vision and Mission of the Department

B. Description of process for defining the PEOs of the program

The Following process was adopted in developing the PEOs of the program:

A series of discussion was conducted among the Department's faculty members, Student Representatives, Alumni Members, Parents, Industry Experts and Program Advisory Members to finalize the PEOs.

Figure 1.4.2: Process of defining the PEOs of the Department

1.5. Establish consistency of PEOs with Mission of the Department (15)

A. Matrix of PEOs and elements of Mission statement

PEOs and Mission Mapping:

M1- Knowledge in Electronics Engineering

M2- Continuous Learning in modern teaching tools.

M3- Skills and Moral Values

Note: M1, M2 and M3 are distinct elements of Mission statement

PEO Statements	M1	M2	M3
PEO1: **To accomplish the basic design and device integration skills in the field of Electronics and Communication Engineering.**	3	2	1
PEO2: **To enlighten with continuous learning in modern technologies and design tools.**	3	3	2
PEO3: **To assimilate the spirit of activity, team work and ethical values in the society as responsible engineers.**	1	3	3

Table 1.1: Correlation between PEOs and Mission Elements

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* Correlation Levels: **1**- Slight (Low) **2**- Moderate (Medium) **3**- Substantial (High)

B. Consistency of co-relation parameters of the above matrix

Justification of Mapping between PEOS and Mission of the Department

PEO STATEMENTS	M1	M2	M3
PEO1: **To accomplish the basic design and device integration skills in the field of Electronics and Communication Engineering.**	**Mission1 Substantially supports PEO1 as the objective is to develop the ability among students with the Knowledge of core engineering which is significantly required to produce creative solutions for industrial demands.**	**Mission2 moderately supports PEO1 as the core competence is required to a greater extent for a career development.**	**Mission3 Slightly supports PEO1 to imbibe moral values among students and provide continuous service to the society by solving real time problems.**
PEO2: **To enlighten with continuous learning in modern technologies and design tools.**	**Mission 1 Substantially supports PEO2 as the skill based education is offered through Value Added Courses in emerging technologies, Industrial Visits and In-plant Training.**	**Mission2 Substantially supports PEO2 which involves the Department's association and professional society activities to inculcate leadership skills.**	**Mission 3 moderately supports PEO2 in fulfilling needs of future techno based society in order to attain innovative solutions.**
PEO3: **To assimilate the spirit of activity, team work and ethical values in the society as responsible engineers.**	**Mission 1 Slightly supports PEO3 as it focuses on academics. In PEO3, the spirit of activity and ethical values are mainly focused and these areas have more deviation with knowledge which is our M1.**	**Mission2 Substantially supports PEO3 as the learning environment is rightly required for career development.**	**Mission3 Substantially supports PEO3 in nurturing elegant personality considering the future generation by involving students in social activities.**

CRITERION 2	PROGRAM CURRICULUM AND TEACHING LEARNING PROCESS	200

2.1 Program Curriculum (40)

2.1.1 State the process used to identify extent of compliance of the DOTE Curriculum for attaining the Program Outcomes (POs) and Program Specific Outcomes (PSOs) mention the identified curricular gaps, if any (25)

A.Process used to identify extent of compliance of DOTE Curriculum for attaining POs &PSOs (15)

The Curriculum is divided broadly into Six categories as listed below.

1. Basic Sciences
2. Engineering sciences
3. Humanities
4. Professional Core and Project
5. Electives
6. Inter Disciplinary Engineering

- The course objectives and outcomes are framed at the beginning of every new regulation.
- The process used to identify extent of compliance of DOTE curriculum for attaining the POs and PSOs are
  - Identify course outcomes for each course and map each course outcome with POs and PSOs.
  - Categorize entire Curriculum into Basic Science, Engineering Science, Humanities, Professional Core, Management and Electives.
  - Identifying gaps in the curriculum.
  - Compensatory measures to fill curriculum gap by organizing workshop, seminars, guest lecture

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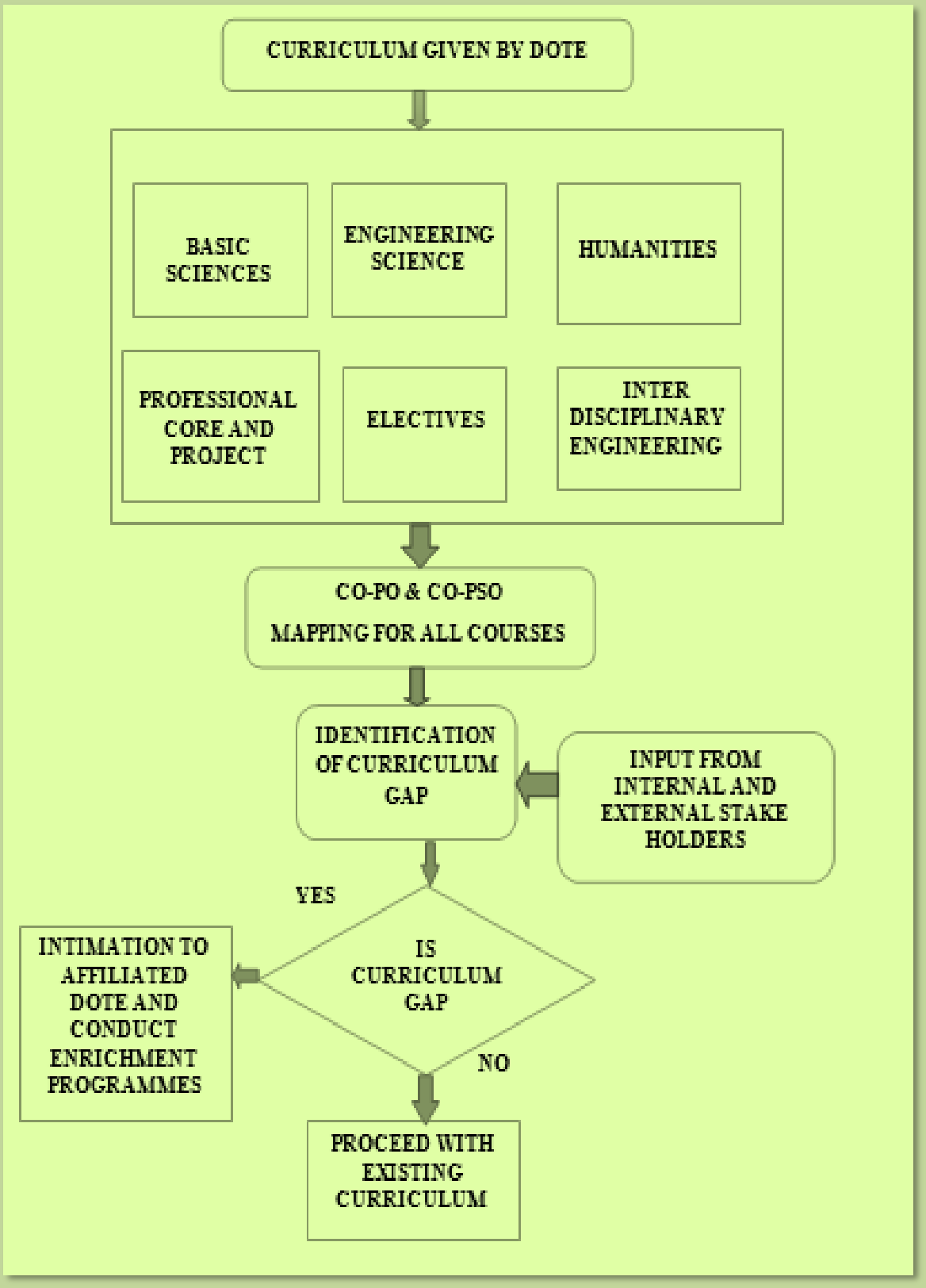


Figure 2.1.1 Process used to identify extent of compliance of DOTE Curriculum

The Distribution of Curriculum to various components towards the attainment of POs and PSOs is shown in Table 2.1.1

Table 2.1.1-Distribution of Curriculum towards the attainment of POs and PSOs

S. No.	Categories of Curriculum	Course	% of Category wise Curriculum Content	Total number of contact hours	Relevance to PO and PSOs
1.	Basic Sciences	Engineering Physics – I	18.18	5	POs-1,2,3,4,5,6,7 PSOs-1,3
		Engineering Chemistry –I		5	POs-1,2,3,4,7 PSOs-1,2
		Engineering Physics- I Practical		2	POs-1,2,3,4,5,7
		Engineering Chemistry- I Practical		2	POs-2,5,7
		Engineering Physics –II		5	POs-1,2,3,4,5,6,7 PSOs-1,2,3
		Engineering Chemistry – II		5	POs-1,2,5,6,7 PSOs-1,3
		Engineering Physics – II Practical		2	POs-1,2,3,4,5,6,7 PSOs-1,2,3
		Engineering Chemistry – II Practical		8	POs-,5,7 PSOs-3
2.	Engineering Sciences	Engineering Mathematics-I	13.64	5	POs-1,2,3,7 PSOs-1
		Engineering Mathematics-II		5	POs-1,2,3,5,6,7 PSOs-1
		Applied Mathematics		5	POs-1,2,3,6,7 PSOs-1,2
		Engineering Graphics-I		3	POs-1,2,3,4,7 PSOs-1,3
		Workshop Practice		6	POs-1,2,3,4,5,6,7 PSOs-1,2,3
		Engineering Graphics-II		8	POs-1,2,3,4,7 PSOs-1,3
3.	Humanities	Communication English-I	6.82	5	POs-6 PSOs-2,3
		Communication English-II		5	POs-5,6,7 PSOs-2,3
		Life and Employability Skills Practice		4	POs-1,5,6,7 PSOs-1,2,3
4.	Professional Core and Project	Electronic Devices and Circuits		6	POs-1,2,3,4,5,6,7 PSOs-1,2,3
		Electrical Circuits and Instrumentation		6	POs-1,2,3,4,5,6,7 PSOs-1,2,3
		Microcontroller		6	POs-1,2,3,4,5,6,7 PSOs-1,2,3
		Digital Electronics		5	POs-1,2,3,4,6,7 PSOs-1,2,3

S. No.	Categories of Curriculum	Course	% of Category wise Curriculum Content	Total number of contact hours	Relevance to PO and PSOs
		Advanced Communication Systems	45.45	6	POs-1,2,3,4,5,6,7 PSOs-1,2,3
		Very Large Scale Integration		5	POs-1,2,3,4,5,6,7 PSOs-1,2,3
		Industrial Electronics		5	POs-1,2,3,4,5,6,7 PSOs-1,2,3
		Communication Engineering		6	POs-1,2,3,4,5,6,7 PSOs-1,2,3
		Linear Integrated Circuits		4	POs-1,2,3,4,5,6,7 PSOs-1,2,3
		Biomedical Instrumentation		6	POs-1,2,3,4,5,6,7 PSOs-1,2,3
		Electronic Devices and Circuits Laboratory		4	POs-1,2,3,4,5,6,7 PSOs-1,2,3
		Electrical Circuits and Instrumentation Laboratory		4	POs-1,2,3,4,5,6,7 PSOs-1,2,3
		Computer Applications Practical for Electronics		4	POs-1,2,3,4,5,6,7 PSOs-1,2,3
		Microcontroller Laboratory		4	POs-1,2,3,4,5,6,7 PSOs-1,2,3
		Advanced Communication Systems Laboratory		4	POs-1,2,3,4,5,6,7 PSOs-1,2,3
		Very Large Scale Integration Laboratory		4	POs-1,2,3,4,6,7 PSOs-1,2,3
		Industrial Electronics and Communication Engineering Laboratory		5	POs-1,2,3,4,5,6,7 PSOs-1,2,3
		Integrated Circuits Laboratory		5	POs-1,2,3,4,6,7 PSOs-1,2,3
		Embedded Systems Laboratory		5	POs-1,3,4,5,6,7 PSOs-1,2,3
		Project Work		4	POs-1,2,3,4,5,6,7 PSOs-1,2,3
5.	**Electives**	Digital Communication	**6.82**	5	POs-1,2,3,4,5,6,7 PSOs-1,2,3
		Programmable Logic Controller		5	POs-1,2,5 PSOs-1,2
		Electronic Systems Design		5	POs-1,2,3,5 PSOs-1,2,3
		Mobile Communication		5	POs-1,2,3,4,5,6,7 PSOs-1,2,3
		Television Engineering		5	POs-1,6,7 PSOs-1,3

S. No.	Categories of Curriculum	Course	% of Category wise Curriculum Content	Total number of contact hours	Relevance to PO and PSOs
		Testing Engineering		5	POs-1,2,6,7 PSOs-1,3
		PCB Design Practical		4	POs-1,3,4,6,7 PSOs-1,2,3
		Test Engineering Practical		4	POs-1,2,6,7 PSOs-1,3
6.	**Inter Disciplinary Engineering**	Programming in C	**9.09**	5	POs-1,2,3,4,5,6,7 PSOs-1,2,3
		Computer Hardware Servicing and Networking		6	POs-1,2,3,4,5,6,7 PSOs-1,2,3
		Programming in C Laboratory		5	POs-1,2,3,4,6,7 PSOs-1,2,3
		Computer Hardware Servicing and Networking Laboratory		4	POs-1,2,3,4,5,6,7 PSOs-1,2,3

The below Pie chart represents the distribution of various components of curriculum towards the attainment of POs and PSOs.

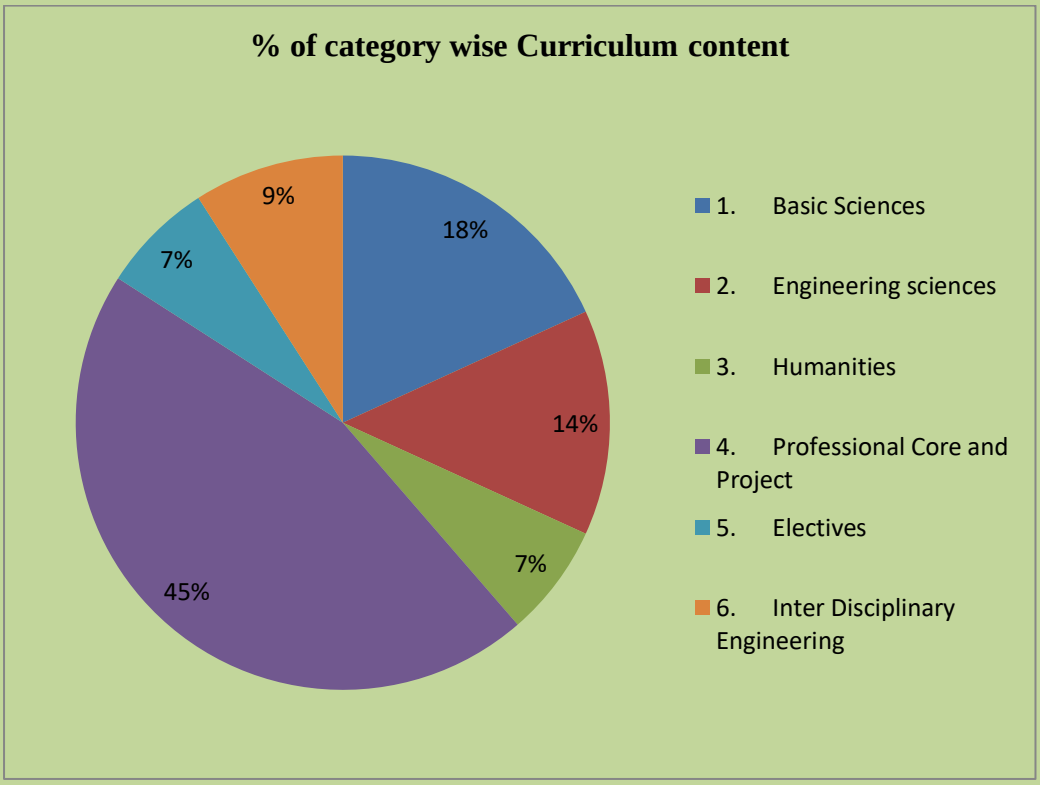


Figure.2.1.2 Representation for Curriculum distribution

B. List the curricular gaps for the attainment of defined POs & PSOs (10)

- The non Compliance of advanced concepts and industrial requirements are identified as curriculum gaps

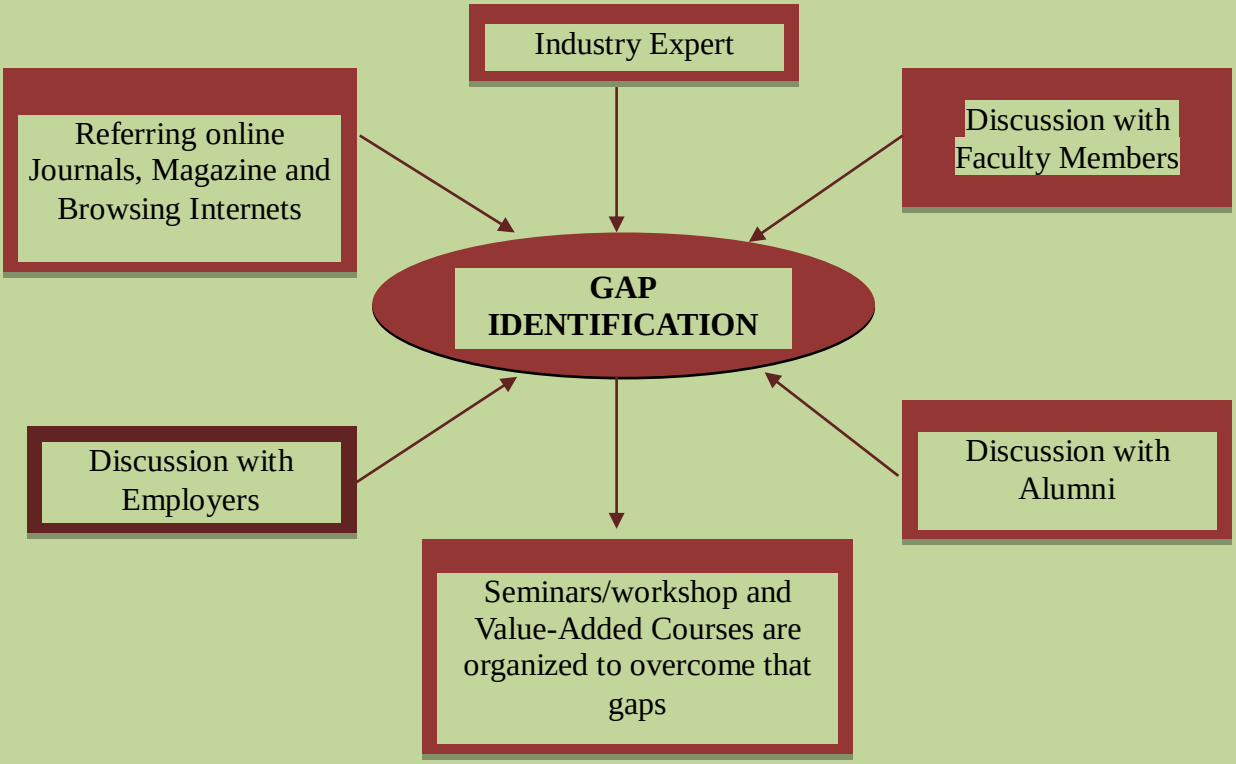


Figure 2.1.3 Curricular Gap Analysis

Program Outcomes

1. Basic and Discipline specific Knowledge
2. Problem Analysis
3. Design / Development of solutions
4. Engineering Tools, Experimentation and Testing
5. Engineering Practices for society, Sustainability and Environment
6. Project Management
7. Life-Long Learning

Program Specific Outcome

PSO1:

Sculpture the students to understand the principles and applications in electronics field with relevant modern communication technologies.

PSO2:

Demonstrate the proficiency in use of modern application oriented tools and software required to provide innovative solution for global requirements.

PSO3:

An ability to communicate professionally and effectively with the complete knowledge of ethical and social values to save the society.

Table 2.1.2 Compliance of DOTE curriculum with POs

Total No.Of Course: 44

Program Outcome	Weightage (POs count) based on the mapping of course	Percentage
PO1: Basic and Discipline specific knowledge	40	90.91
PO2: Problem analysis	38	86.36
PO3: Design/development of solutions	38	86.36
PO4 :Engineering Tools, experimentation and testing	35	79.54
PO5 :Engineering practice for society, sustainability and environment	34	77.27
PO6: Project management	37	84.09
PO7: Life-long learning	43	97.73

$$\textit{Percentage of courses mapping with PO} = \frac{\textit{No.of courses mapped with PO}}{\textit{Total number of courses in curriculum}}$$

If percentage of course mapped with PO's is less than 80%, it is identified as curriculum gap.

Table 2.1.3 Compliance of DOTE Curriculum with PSOs

Program Specific Outcome	Weightage (PSOs count) based on the mapping of course	Percentage
PSO1: Sculpture the students to understand the principles and applications in electronics field with relevant modern communication technologies.	40	90.91
PSO2: Demonstrate the proficiency in use of modern application oriented tools and software required to provide innovative solution for global requirements.	37	84.09
PSO3: An ability to communicate professionally and effectively with the complete knowledge of ethical and social values to save the society.	38	86.36

$$\textit{Percentage of courses mapping with PSO} = \frac{\textit{No.of courses mapped with PSO}}{\textit{Total number of courses in curriculum}}$$

If percentage of course mapped with PSO's is less than 90%, it is identified as curriculum gap.

The following POs are identified as curricular gaps are obtained from the table 2.1.2 and table 2.1.3 :

- PO4 :Engineering Tools, experimentation and testing
- PO5 :Engineering practice for society, sustainability and environment
- PSO2: Demonstrate the proficiency in use of modern application oriented tools and software required provide innovative solution for global requirements.
- PSO3: An ability to communicate professionally and effectively with the complete knowledge of ethical and social values to save the society.

2.1.2 Content beyond the Syllabus (15)

A.Steps taken to get identified gaps included in the curriculum (2)

- The curriculum prescribed by DOTE is followed in the programme.
- The department continuously motivates the student to enrich their knowledge towards the attainment of POs and PSOs.

B. Delivery details of content beyond syllabus (10)

The identified Curriculum gaps are fulfilled by the following process:

- Workshops/Seminars
- Value Added Courses
- Technical Talk (Internal and External Academic/Industrial Experts)
- Students Lab practices
- In-plant Training
- Industrial Visits

C. Mapping of content beyond syllabus with the Pos & PSOs (3)

The lists of Special Lectures / Workshops / Seminars / Value Added Courses are listed in the Table 2.1.2.1

Table.2.1.2.1-Special Lectures / Workshops / Seminar/Value Added Courses

S. No.	Academic Year	Total No. Students' Enrichment Programmes Conducted	Total No. of Value Added Courses
1.	**CAY** 2019-2020	11	03
2.	**CAYm1:** 2018-2019	10	02
3.	**CAY m2:** 2017-2018	08	02

S. No.	Curriculum Gap	Action taken	Date/ Month/ Year	Resource Person with designation	No.of Students present	Relevance to POs and PSOs
CAY:2019-2020						
1.	POs-4,5 PSOs-2,3	One day Workshop on " ARM Processor"	10.03.2020	Mr.M.Vignesh, Program Trainer, VI Micro Systems, Coimbatore.	36	POs-1,2,3,4,5,6,7 PSOs-1,2,3
2.	PO5 PSOs2,	Alumni Lecture on "Present Corporate Environment"	24.02.2020	Mr. B.Manoj kumar, Design Engineer, Tessolve Semiconductors Limited, Coimbatore.	62	POs-2,3,4,5,6,7 PSOs-1,3
3.	PO5, PSO3	Alumni Lecture on "Work Environment"	15.02.2020	Ms. R.Mathumitha, Junior Testing Engineer, Tri Phase Technologies, Bangalore.	61	POs-1,2,5,7 PSOs-3
4.	POs-4,5 PSOs-2,3	Guest Lecture on "Artificial Intelligence"	14.02.2020	Mr.Rijo George, Project Manager, Emglitz Technologies, Coimbatore.	58	POs-1,2,4,5,6,7 PSOs-1,2,3
5.	POs-4,5 PSOs-2,3	State Level Technical Symposium"PA TECHARENA 2K20"	05.02.2020	Thiru Wonderjoky, Vice President (Operations) CIEL HR , Coimbatore.	58	POs-1,3,4,5,6,7 PSOs-1,2,3
6.	POs-4,5 PSOs-2,3	One day Seminar on "Internet of Things"	24.1.2020	Mr.S.Gunasekar, System Engineer, Sipcot Information Technology Park, Chennai.	60	POs-1,2,4,5,6,7 PSOs-1,2,3
7.	POs-4,5 PSOs-2,3	Guest Lecture on "Emerging Trends in Mobile Communication"	09.09.2019	Mr.B.Saranraj, Assistant Professor/ECE, P.A. College of Engineering and Technology, Pollachi. Mr. Vijay Golla, Technical Consultant, UTL Technologies Limited, Bengaluru.	60	POs-1,2,4,5,6,7 PSOs-1,2,3
8.	POs-4,5 PSOs-2,3	one day Workshop on "PCB Designing"	20.08.2019	Mr.M.Gokul, Program Trainer Allzone Systems Ram Nagar, Coimbatore.	36	POs-1,2,4,5,6,7 PSOs-1,2,3

9.	POs-4,5 PSOs-2,3	Guest Lecture on "Emerging Trends in Tele Communictaion"	24.07.2019	Mr.T.Senthil, Junior Telecom Officer 3G Core Network, BSNL, Coimbatore.	60	POs-1,2,4,5,6,7 PSOs-1,2,3
10.	PO5 PSO3	I Year Orientation Program Topic: "Kalviyum Olukamum"	14.06.2019	Mr.S.Dwarakanathan, Ex.Vice President, (Engg.,R&D; HRD), M/s. Brakes India Ltd., TVS Groups, Chennai.	29	POs-5,7 PSOs-1,3
11.	PO5 PSO3	I Year Orientation Program Topic: "I Can I Will"	13.06.2019	Prof.P.Suryanarayanan, Former Professor, Department of English, Govt.Arts College, Coimbatore.	29	POs-5,6,7 PSOs-3
CAYm1:2018-2019						
1.	POs-4,5 PSOs-2,3	A Guest Lecture on"Wireless Commuication"	16.03.2019	Mr.A.Akkash, Design Engineer, Tessolve Semiconductors Limited, Coimbatore.	60	POs-1,3,4,5,6,7 PSOs-1,2,3
2.	PO5 PSOs-2,3	Alumni Lecture on "Higher Education"	11.03.2019	Ms.V.Sangeetha, Junior Testing Engineer, Tri Phase Technologies, Bangalore.	36	POs-1,2,3,4,5,6,7 PSOs-1,2,3
3.	POs-4,5 PSOs-2,3	A One-day Workshop on "PCB Designing"	05.02.2019	Dr.R.P.MeenaakshiSundhari, Professor/ECE, P.A. College of Engineering and Technology, Pollachi. Mr. V. Angappan, Proprietor, Megatech Scientific Instruments, Coimbatore.	36	POs-1,2,3,4,5,6,7 PSOs-1,2,3
4.	POs-4,5 PSOs-2,3	One day Seminar on "Basics of Electronics"	28.01.2019	Mr. M.Manikandan, Design Engineer, Tessolve Semiconductors Limited, Coimbatore.	62	POs-1,2,3,4,5,6,7 PSOs-1,2,3

5.	POs-4,5 PSOs-2,3	State Level Technical Symposium"PA TECHARENA 2K19"	25.01.2019	Thiru.Sugumaran uppili, Co-Founder and Chief Technology Officer, Harithan Technologies, Coimbatore.	74	POs-1,3,4,5,6,7 PSOs-1,2,3
6.	POs-4,5 PSOs-2,3	A Guest Lecture on "Latest Trends in Communication"	05.09.2018	Dr.K.Sankaranarayanan, Professor&Dean/ECE, P.A. College of Engineering and Technology, Pollachi. Mr.T.Senthil, Junior Telecom Officer 3G Core Network, BSNL, Coimbatore.	70	POs-1,2,4,5,6,7 PSOs-1,2,3
7.	POs-4,5 PSOs-2,3	One day Seminar on "Optical Communication"	09.08.2018	Mr.J.Sridhar Prabhu, Project Manager, Allzone Systems, Coimbatore.		POs-1,2,3,4,5,6,7 PSOs-1,2,3
8.	POs-4,5 PSOs-2,3	A one-day Workshop on "Embedded System"	25.07.2018	Mr.Rijo George, Project Manager, Emglitz Technologies, Coimbatore.	36	POs-1,2,3,4,5,6,7 PSOs-1,2,3
9.	PO5 PSO3	I Year Orientation Program Topic: "Kalviyum Olukamum"	14.06.2018	Prof.P.Suryanarayanan, Former Professor, Department of English, Govt.Arts College, Coimbatore.	35	POs-1,5,7 PSO3
	PO5 PSO3	I Year Orientation Program Topic:"Moral Values"		Dr.N.Eswaran, Head , Akshaya Institute of Management Studies, Coimbatore.		POs-5,7 PSO3
10.	PO5 PSO3	I Year Orientation Program Topic: "Un Edhir Kalam Un Kaiyil"	13.06.2018	Mr.S.Dwarakanathan, Ex.Vice President, Brakes India Ltd., TVS Groups, Chennai.	35	POs-5,7 PSO3
CAYm2:2017-2018						
1.	POs-4,5 PSOs-2,3	A One-Day Workshop on "Components Identification and Testing"	21.03.2018	Mr.J.Sridhar Prabhu, Project Manager, Allzone Systems, Coimbatore.	48	POs-1,3,4,5,6,7 PSOs-1,2,3
2.	PO5 PSOs-2,3	Alumni Lecture on "There is a Will, Where is the Way?	06.03.2018	Ms.M.NithyaPrabha, Junior Testing Engineer, Tri Phase Technologies, Bangalore.	28	POs-2,3,5,7 PSO3

3.	POs-4,5 PSOs-2,3	A Guest Lecture on "Lab View and Applications"	19.02.2018	Dr.D.Ganeshkumar, Professor and Head , Department of ECE, P.A.College of Engineering and Technology, Pollachi. Mr. V. Angappan, Proprietor, Megatech Scientific Instruments, Coimbatore.	45	POs-1,2,3,4,5,6,7 PSOs-1,2,3
4.	POs-4,5 PSOs-2,3	State Level Technical Symposium"PA TECHARENA 2K19"	04.01.2018	Mr.SridharanPadmanaban, Team Head Embedded Systems Group, Altron Technologies Limited, Coimbatore.	45	POs-1,3,4,5,6,7 PSOs-1,2,3
5.	POs-4,5 PSOs-2,3	one Day Seminar on "Basics of Electronics Devices"	27.12.2017	Mr.N.Sethuraman, Senior Design Engineer, JRM Technologies, Gandhipuram, Coimbatore.	43	POs-1,3,4,5,6,7 PSOs-1,2,3
6.	POs5 PSO3	I Year Orientation Program Topic:"Vetrikku Vazhi"	13.06.2017	Mr.S.Dwarakanathan, Ex.Vice President, Brakes India Ltd., TVS Groups, Chennai	40	POs-2,3,5,7 PSOs-1,3
7.	POs5 PSO3	I Year Orientation Program Topic:"Tholviye Thuvakam"	12.06.2017	Siva.S.Sathish kumar, Television speaker, NGM College, Pollachi.	40	POs-2,3,5,7 PSOs-3
8.	PO5 PSO3	I Year Orientation Program Topic:"Ulaippom Uyarvom"	09.06.2017	Prof.P.Suryanarayanan, Former Professor, Department of English, Govt.Arts College, Coimbatore.	40	POs-2,3,5,7 PSOs3

S. No	Curriculum Gap	Action taken	Duration / Period	Resource Person with designation	No.of students present	Relevance to PO and PSO
CAY:2019-2020						

1.	POs-4,5 PSOs-2,3	PCB Designing and Fabrication	30 hrs Jan- Mar 2020	Mr.J.Sridhar Prabhu, Project Manager, Allzone systems, Coimbatore. Mr.R.Karuppu Samy, Lecturer/ECE, P.A.Polytechnic College, Pollachi.	28	POs-1,2,3,4,5,6,7 PSOs-1,2,3
2.	POs-4,5 PSOs-2,3	Embedded Systems	30 hrs Aug-Oct 2019	Mr.M.Gokul, ProgramTrainer, Allzone Systems, Ram Nagar, Coimbatore. Mrs.S.Priyatharsini, Lecturer/ECE, P.A.Polytechnic College, Pollachi.	20	POs-1,2,3,4,5,6,7 PSOs-1,2,3
3.	POs-4,5 PSOs-2,3	C Programming	30 hrs Jul- Sep 2019	Mrs.R.Gowri, Lecturer/ECE, P.A.Polytechnic College, Pollachi. Mr.J.Santhosh, Lecturer/CSE, P.A.Polytechnic College, Pollachi.	20	POs-1,3,4,5,6,7 PSOs-1,2,3
CAYm1:2018-2019						
1.	POs-4,5 PSOs-2,3	C Programming	30 hrs Jan- Mar 2019	Mrs.R.Gowri, Lecturer/ECE, P.A.Polytechnic College, Pollachi. Mr.J.Santhosh, Lecturer/CSE, P.A.Polytechnic College, Pollachi.	22	POs- 1,3,4,5,6,7 PSOs-1,2,3
2.	POs-4,5 PSOs-2,3	HDL Language for VLSI Design	30 hrs Jul -Aug 2018	Mr.F.Mhaboob Khan Assistant Professor/ECE, P.A. College of Engineering and Technology, Pollachi.	26	POs- 1,2,3,4,5,6,7 PSOs-1,2,3

				Mrs.S.Kavitha, Lecturer/ECE, P.A.Polytechnic College, Pollachi.		
CAY m2:2017-2018						
1.	POs-4,5 PSOs-2,3	Mobile Phone Servicing	30 hrs Feb -Mar 2018	Mr. N. Senathipathi Assistant Professor/ECE, P.A. College of Engineering and Technology, Pollachi. Mr.N.Mathivanan, Lecturer/CSE, P.A Polytechnic College, Pollachi.	20	POs-1,2,3,4,5,6,7 PSOs-1,2,3
2.	POs-4,5 PSOs-2,3	VLSI Design	30 hrs Jun-Sep 2017	Mr.F.Mhaboob Khan Assistant Professor/ECE, P.A. College of Engineering and Technology, Pollachi. Mrs.S.Kavitha, Lecturer/ECE, P.A Polytechnic College, Pollachi.	20	POs-1,2,3,4,5,6,7 PSOs-1,2,3

2.2 Teaching– Learning Processes (160)

2.2.1. Describe Processes followed to improve quality of Teaching & Learning (25)

The Institution follows various practices for the attainment of program outcomes and program specific outcomes in agreement with DOTE curriculum:

A. Adherence to Academic Calendar

- Department Academic calendar is prepared prior to the commencement of the semester based on institution calendar and DOTE norms.
- It constitutes working days of the semester, internal test schedule, project reviews, industrial visit and other activities planned for the semester such as guest lectures, seminars, workshops, alumni lectures, project contest, symposium and parents meeting.
- The academic calendar is circulated among faculty and students.

The academic calendar CAY (2019-2020)

LEARN WORK SUCCEED

P. A. POLYTECHNIC COLLEGE

(Approved by AICTE and Affiliated to Directorate of Technical Education)
POLLACHI – 642 002

ACADEMIC CALENDAR 2019-2020
EVEN SEMESTER

I,II& III YEAR DIPLOMA PROGRAMME
Department of Electronics and Communication Engineering

Website : www.papolytechnic.org
Mail id : paptc@rediffmail.com

ஞாலம்கருதினும்கைகூடும்காலம்
கருதிஇடத்தாற்சயெின்.

-வள்ளுவப்பநெந்தகை
திருக்குறள்[அதிகாரம்:காலம்அறிதல்:(49.4)]

(*Choose proper time and place, and act*
Even the world you win with ease.)

DECEMBER 2019			
S.No.	**DATE**	**DAY**	**PROGRAMME & REMARKS**
1	09.12.2019	MONDAY	RE-OPENING FOR (II & III YEAR)
2	10.12.2019	TUESDAY	
3	11.12.2019	WEDNESDAY	
4	12.12.2019	THURSDAY	
5	13.12.2019	FRIDAY	HOD'S meeting with principal at 3.30 pm in principal chamber
6	14.12.2019	SATURDAY	HOLIDAY
7	15.12.2019	SUNDAY	HOLIDAY
8	16.12.2019	MONDAY	
9	17.12.2019	TUESDAY	Course committee meeting at 5.15 pm in Department
10	18.12.2019	WEDNESDAY	
11	19.12.2019	THURSDAY	
12	20.12.2019	FRIDAY	HOD'S meeting with principal at 3.30 pm in principal chamber
13	21.12.2019	SATURDAY	MONDAY ORDER
14	22.12.2019	SUNDAY	HOLIDAY
15	23.12.2019	MONDAY	Unit Test-I(I,II YEAR)
16	24.12.2019	TUESDAY	Department meeting at 5.15 pm in hod chamber Unit Test-I(I,II,III YEAR)
17	25.12.2019	WEDNESDAY	HOLIDAY- CHRISTMAS
18	26.12.2019	THURSDAY	Unit Test-I(I,II,III YEAR) Class committee meeting at 3.30 pm in Main Block 203 Hall
19	27.12.2019	FRIDAY	Unit Test-I(I,II,III YEAR) HOD'S meeting with principal at 3.30 pm in principal chamber
20	28.12.2019	SATURDAY	HOLIDAY
21	29.12.2019	SUNDAY	HOLIDAY
22	30.12.2019	MONDAY	Unit Test - I (I YEAR) HA- I (II YEAR)
23	31.12.2019	TUESDAY	UNIT TEST -I(I YEAR) HA-I (II,III YEAR)

JANUARY 2020			
S.No.	**DATE**	**DAY**	**PROGRAMME & REMARKS**
24	01.01.2020	WEDNESDAY	HOLIDAY- NEW YEAR
25	02.01.2020	THURSDAY	HA-I (II,III YEAR)
26	03.01.2020	FRIDAY	HOD'S meeting with principal at 3.30 pm in principal chamber HA-I (II,III YEAR)

27	04.01.2020	SATURDAY	WEDNESDAY ORDER
28	05.01.2020	SUNDAY	HOLIDAY
29	06.01.2020	MONDAY	HA -I(I YEAR)
30	07.01.2020	TUESDAY	HA -I(I YEAR)
31	08.01.2020	WEDNESDAY	HA -I(IYEAR)
32	09.01.2020	THURSDAY	Course committee meeting at 5.15 pm in Department
			HA -I(I YEAR)
33	10.01.2020	FRIDAY	HOD'S meeting with principal at 3.30 pm in principal chamber
			HA -I(IYEAR)
34	11.01.2020	SATURDAY	HOLIDAY
35	12.01.2020	SUNDAY	HOLIDAY
36	13.01.2020	MONDAY	Department meeting at 5.15 pm in HOD Chamber
			HA -I(I YEAR)
37	14.01.2020	TUESDAY	
38	15.01.2020	WEDNESDAY	HOLIDAY-PONGAL
39	16.01.2020	THURSDAY	HOLIDAY- THIRUVALLUVAR DAY
40	17.01.2020	FRIDAY	HOLIDAY-UZHAVAR THIRUNAL
41	18.01.2020	SATURDAY	WEDNESDAY ORDER
42	19.01.2020	SUNDAY	HOLIDAY
43	20.01.2020	MONDAY	CAT-I(I YEAR)
44	21.01.2020	TUESDAY	CAT-I(I ,IIYEAR)
45	22.01.2020	WEDNESDAY	CAT-I(I ,II,III YEAR)
46	23.01.2020	THURSDAY	CAT-I(I ,II,III YEAR)
47	24.01.2020	FRIDAY	CAT-I(I ,II,III YEAR)
			One day Seminar on "Internet of Things"
			HOD'S meeting with principal at 3.30 pm in principal chamber
48	25.01.2020	SATURDAY	HOLIDAY
49	26.01.2020	SUNDAY	HOLIDAY
50	27.01.2020	MONDAY	CAT-I(I YEAR)
51	28.01.2020	TUESDAY	
52	29.01.2020	WEDNESDAY	
53	30.01.2020	THURSDAY	CAT - I Meeting with principal at 5.00 pm in principal chamber
54	31.01.2020	FRIDAY	HOD'S meeting with principal at 3.30 pm in principal chamber
			CAT-I(I YEAR)

FEBRUARY 2020

S.No.	DATE	DAY	PROGRAMME & REMARKS
55	01.02.2020	SATURDAY	THURSDAY ORDER
56	02.02.2020	SUNDAY	HOLIDAY
57	03.02.2020	MONDAY	Department meeting at 5.15 pm in hod chamber
			HA-II(I,II YEAR)

58	04.02.2020	TUESDAY	HA-II(I,II,III YEAR)
			Parents meeting at 3.30 pm in seminar hall
59	05.02.2020	WEDNESDAY	HA-II(I,II,III YEAR)
			State Level Technical Symposium " TECHARENA 2K20"
			Class committee meeting at 3.30 pm in Main Block 203 Hall
60	06.02.2020	THURSDAY	HA-II(I,II,III YEAR)
61	07.02.2020	FRIDAY	HA-II(I YEAR)
			Project Review-I
			HOD'S meeting with principal at 3.30 pm in principal chamber
62	08.02.2020	SATURDAY	Working day as per DOTE Order
			Project Review-I
63	09.02.2020	SUNDAY	HOLIDAY
64	10.02.2020	MONDAY	HA-II(I YEAR), Unit Test-II(II YEAR)
			Association arrangement meeting with HOD at5.15pm in Department
			Course committee meeting at 5.15 pm in Department
65	11.02.2020	TUESDAY	UNIT TEST -II(I,II,III YEAR)
66	12.02.2020	WEDNESDAY	UNIT TEST -II(I,II,III YEAR)
67	13.02.2020	THURSDAY	UNIT TEST -II(I,II,III YEAR)
68	14.02.2020	FRIDAY	HOD'S meeting with principal at 3.30 pm in principal chamber
			Association SPECTRA- Inauguration Guest lecture on "Artificial Intelligence"
			UNIT TEST -II(I YEAR)
69	15.02.2020	SATURDAY	FRIDAY ORDER
			Alumni Lecture on "Working Environment"
			UNIT TEST -II(I YEAR)
70	16.02.2020	SUNDAY	HOLIDAY
71	17.02.2020	MONDAY	UNIT TEST -II(I YEAR)
72	18.02.2020	TUESDAY	
73	19.02.2020	WEDNESDAY	
74	20.02.2020	THURSDAY	
75	21.02.2020	FRIDAY	HOD'S meeting with principal at 3.30 pm in principal chamber
76	22.02.2020	SATURDAY	Working day as per DOTE Order
77	23.02.2020	SUNDAY	HOLIDAY
78	24.02.2020	MONDAY	CAT -II (I YEAR)
79	25.02.2020	TUESDAY	CAT-II(I ,II YEAR)
80	26.02.2020	WEDNESDAY	Industrial visit for at Radio station , Ooty
			Alumni Lecture on "Present Corporate Environment"
			CAT-II(I ,II ,III YEAR)
81	27.02.2020	THURSDAY	CAT-II(I ,II, III YEAR)
82	28.02.2020	FRIDAY	CAT-II(I ,II, III YEAR)
			HOD'S meeting with principal at 3.30 pm in principal chamber

83	29.02.2020	SATURDAY	WEDNESDAY ORDER CAT -II (I YEAR)

MARCH 2020

S.No.	DATE	DAY	PROGRAMME & REMARKS
84	01.03.2020	SUNDAY	HOLIDAY
85	02.03.2020	MONDAY	Course committee meeting for at 5.15 pm in Department
86	03.03.2020	TUESDAY	CAT II Meeting at 5.15 pm in Department with HOD
87	04.03.2020	WEDNESDAY	Class committee meeting at 3.30 pm in Main Block 203 Hall
88	05.03.2020	THURSDAY	Sports Day
89	06.03.2020	FRIDAY	Project Review-II HOD'S meeting with principal at 3.30 pm in principal chamber
90	07.03.2020	SATURDAY	ANNUAL DAY WEDNESDAY ORDER
91	08.03.2020	SUNDAY	HOLIDAY
92	09.03.2020	MONDAY	HA-III (I YEAR)
93	10.03.2020	TUESDAY	One day Workshop on " ARM Processor" HA - III (I, II YEAR)
94	11.03.2020	WEDNESDAY	Project Review-II HA - III(I,II,III YEAR)
95	12.03.2020	THURSDAY	CAT II Meeting with principal at 5.15 pm in principal chamber HA - III(I,II,III YEAR)
96	13.03.2020	FRIDAY	HA - III(I, II,III YEAR) HOD'S meeting with principal at 3.30 pm in principal chamber
97	14.03.2020	SATURDAY	Working day as per DOTE Order
98	15.03.2020	SUNDAY	HOLIDAY
99	16.03.2020	MONDAY	MODEL (I YEAR) Department meeting at 5.15 pm in hod chamber
100	17.03.2020	TUESDAY	MODEL (I,II YEAR) LAST WORKING DAY
101	18.03.2020	WEDNESDAY	MODEL (I,II,III YEAR)
102	19.03.2020	THURSDAY	MODEL (I,II,III YEAR)
103	20.03.2020	FRIDAY	MODEL (I,II,III YEAR) HOD'S meeting with principal at 3.30 pm in principal chamber
104	21.03.2020	SATURDAY	MODEL(I YEAR) TUESDAY ORDER
105	22.03.2020	SUNDAY	HOLIDAY
106	23.03.2020	MONDAY	COMMENCEMENT OF APRIL PRACTICAL EXAMS
107	24.03.2020	TUESDAY	
108	25.03.2020	WEDNESDAY	HOLIDAY-TELGU NEW YEAR
109	26.03.2020	THURSDAY	MODEL -I(II, III YEAR)

110	27.03.2020	FRIDAY	HOD'S meeting with principal at 3.30 pm in principal chamber
111	28.03.2020	SATURDAY	Working day as per DOTE Order
112	29.03.2020	SUNDAY	HOLIDAY
113	30.03.2020	MONDAY	
114	31.03.2020	TUESDAY	

APRIL 2020

S.No	DATE	DAY	PROGRAMME & REMARKS
115	01.04.2020	WEDNESDAY	
116	02.04.2020	THURSDAY	MODEL I Meeting with principal at 5.15 pm in principal chamber
117	03.04.2020	FRIDAY	HOD'S meeting with principal at 3.30 pm in principal chamber
118	04.04.2020	SATURDAY	
119	05.04.2020	SUNDAY	HOLIDAY
120	06.04.2020	MONDAY	HOLIDAY-MAHAVEER JAYANTHI
121	07.04.2020	TUESDAY	
122	08.04.2020	WEDNESDAY	
123	09.04.2020	THURSDAY	
124	10.04.2020	FRIDAY	HOLIDAY- GOOD FRIDAY
125	11.04.2020	SATURDAY	HOLIDAY
126	12.04.2020	SUNDAY	HOLIDAY
127	13.04.2020	MONDAY	
128	14.04.2020	TUESDAY	HOLIDAY- TAMIL NEW YEAR
129	15.04.2020	WEDNESDAY	Department meeting at 5.15 pm in hod chamber
130	16.04.2020	THURSDAY	
131	17.04.2020	FRIDAY	HOD'S meeting with principal at 3.30 pm in principal chamber
132	18.04.2020	SATURDAY	
133	19.04.2020	SUNDAY	HOLIDAY
134	20.04.2020	MONDAY	
135	21.04.2020	TUESDAY	
136	22.04.2020	WEDNESDAY	
137	23.04.2020	THURSDAY	
138	24.04.2020	FRIDAY	HOD'S meeting with principal at 3.30 pm in principal chamber
139	25.04.2020	SATURDAY	HOLIDAY
140	26.04.2020	SUNDAY	HOLIDAY
141	27.04.2020	MONDAY	
142	28.04.2020	TUESDAY	
143	29.04.2020	WEDNESDAY	
144	30.04.2020	THURSDAY	

CAT I				
S.No.	**YEAR/SEM**	**DATE**	**TIME**	**PORTION**
1	I/II	20.01.2020 - 27.01.2020	9.00 - 11.00	I & II UNITS
2	II/IV	21.01.2020 - 24.01.2020	11.15 - 1.15	
3	III/VI	21.01.2020 - 24.01.2020(CIVIL ENGG)	2.55 - 4.55	
		22.01.2020- 24.01.2020		

CAT II				
S.No.	**YEAR/SEM**	**DATE**	**TIME**	**PORTION**
1	I/II	24.02.2020 - 29.02.2020	2.55 - 4.55	III & IV UNITS
2	II/IV	25.02.2020 - 28.02.2020	9.00 - 11.00	
3	III/VI	25.02.2020 - 28.02.2020(CIVIL ENGG)	11.15 - 1.15	
		26.02.2020 - 28.02.2020		

MODEL				
S.No.	**YEAR/SEM**	**DATE**	**TIME**	**PORTION**
1	I/II	16.03.2020 - 21.03.2020	9.00 - 12.00	5 UNITS
2	II/IV	17.03.2020 - 20.03.2020	9.00 - 12.00	
3	III/VI	17.03.2020 - 20.03.2020(CIVIL ENGG)	1.55 - 4.55	
		18.03.2020 - 20.03.2020		

PRINCIPAL

B.Use of various Instructional planning and delivery methods (3)

- The faculty adopts various innovative teaching and learning methodologies to create the best learning environment for students.

Instructional Methods

- Lecture Methods
- ICT Based learning
- Collaborative learning
- Beginners/ Fresher's connect program

Lecture Methods

- The institution follows the curriculum and syllabus of the DOTE for preparing academic calendar as well as course plan.
- Tutorial hours for analytical courses are conducted to have a better analytical perspective in the corresponding courses.
- The traditional chalk and talk method is followed.
- Students are also encouraged to actually interact during the lecture hour by getting the doubts clarified on the spot.

ICT Based Learning

- ICT based learning support, enhance and optimize the delivery of information in the quality of education and teaching.
- The following ICT based learning tools are adapted in the programme
    1. Multimedia projectors
    2. OHPs
    3. Power point presentation.
- Seminars hours are allotted in the time table for enhanced learning and also for updating the knowledge with the fast growing technology.

Collaborative Learning

- Collaborative learning is a situation in which group of students learns and works together to analyze and apply concepts in an interactive manner.
- Collaborative learning is attained by involving student groups, Technical Quiz and Project works.
- Learning is also promoted by conducting value added courses where students are given the opportunity to be trained from the industrial experts.

Beginners/ fresher's connect program

- At the beginning of every semester newly joined faculty are given orientation towards the methods of teaching.

- They are also familiarized with Bloom's taxonomy objectives for betterment in their educational activities.

C. Methodologies to support weak students and encourage bright students (4)

The students are categorized as bright and weak based on the DOTE results and internal test performance. Remedial classes are conducted for weak students after regular classes. Bright students are encouraged for participating in various State/ National technical events. These activities are planned during the commencement of every semester.

Guidelines to identify weak students

The Counsellors regularly conduct meetings regarding progress of their students and are responsible to identify students who scored less than 20 marks in their Continuous Assessment Test and less than 30 marks in model examination.

Under the HOD's direction, the students Counsellor evaluates the mark statement of those students who score below 20 marks in all subject and below 80% attendance are considered as academically weak students and same is also intimated to their parents.

Mentoring System

Identification Criteria	Actions taken
Students scoring less than 20 marks in Continuous Assessment Test	Student Counsellor follows their progress regularly advising students about attending classes, making up missed classes. Intimating parents to counsel their wards. Conducting Coaching classes.
Diploma students who entered with less basic science	Conducting Coaching classes.
Students who failed in semester exams	Conducting extra classes to those who failed in previous semester subjects.

Methodologies to support Bright students:

- Awareness provided to appear for entrance examinations for higher studies.

Action taken for Bright students

- Students securing First and Second rank in end semester examination are awarded with certificate of merit and cash prize.
- Student securing 100% attendances are also awarded by certificate and cash prize.
- Students are motivated for attending workshops, seminars, paper presentation.
- Bright students are encouraged for participating in various national technical events. These activities are planned during the commencement of every semester.

- Students are motivated to secure high marks in DOTEexamination.

D. Quality of classroom teaching (Observation in a Class) (3)

Quality of teaching is a very important factor for quality learning. The following aspects are considered to ensure a good quality classroom teaching:

- An interactive learning environment is provided to encourage the students by discussing and clearing their doubts.
- Real components and models are taken by the faculty to the class room to demonstrate the concepts in a clear way to the students.
- Real time examples are cited in the form of videos.
- Class committee meetings are conducted in order to monitor and evaluate the quality of class room teaching.
- In each semester, a feedback from the students is collected for all the courses to evaluate the quality of teaching and learning process.

E. Conduct of experiments (Observation in Lab) (3)

- The students are divided into 2 groups.
- Each group is divided into batches with 2 to 4 students per batch.
- Laboratory manuals and course plans are prepared for each laboratory course before the commencement of each semester.
- The students are encouraged to carry out mini projects to enhance their practical knowledge.

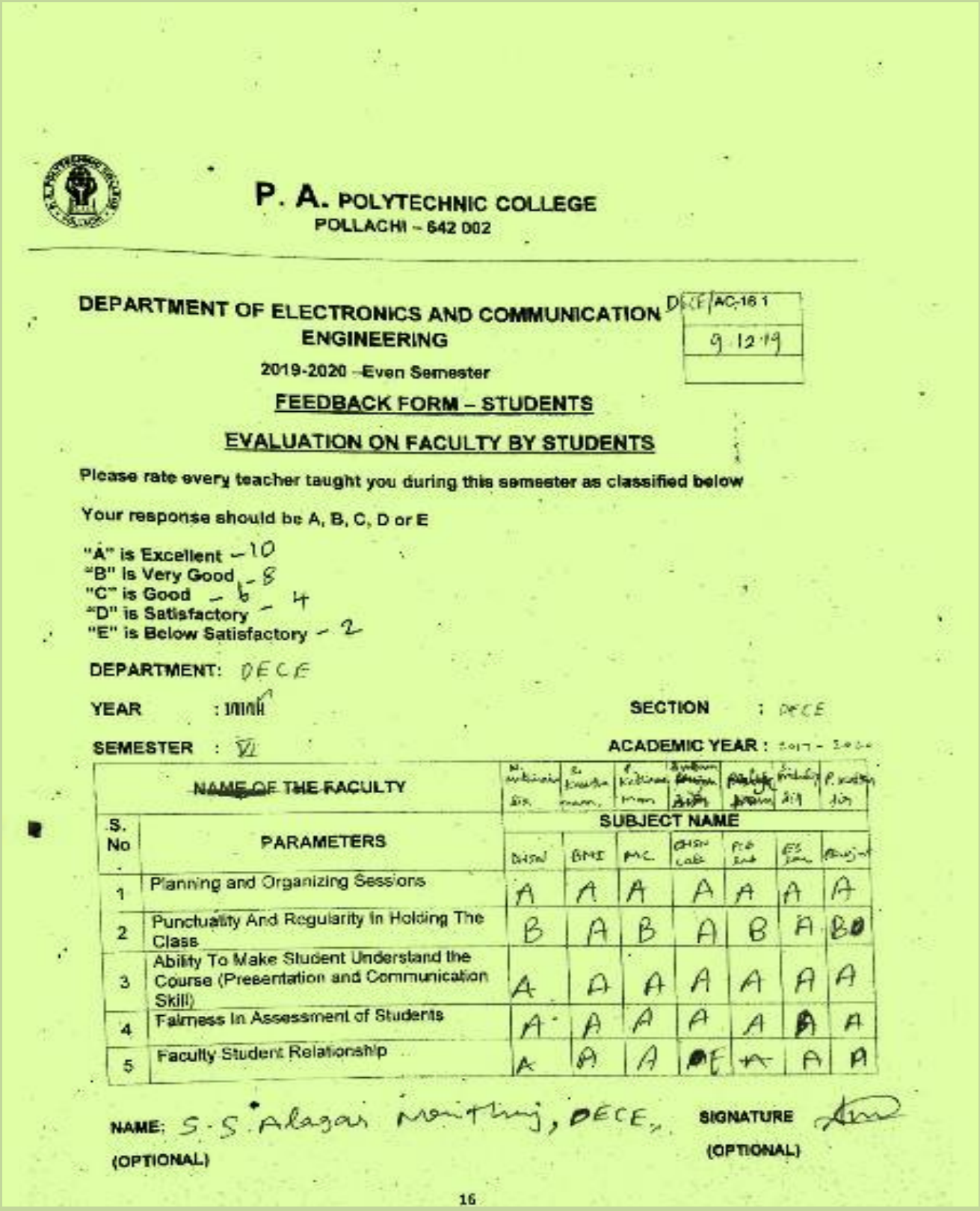
F. Continuous Assessment in the laboratory (3)

- As per DOTE guidelines all practical courses are continuously assessed for an internal maximum of 20 marks.
- Students are continuously assessed in the lab through
    1. Completion of the experiment
    2. Periodic submission of observation/record

G. Student feedback of teaching learning process and actions taken (6)

- Class committee meeting is carried out periodically and the feedback is obtained.
- The feedback from the students is collected in a semester to improvise the teaching learning process.
- Students give their feedback regarding the way of course handling by the faculty and other problems in the classroom.
- The Student feedback form is shown in Table below:

FEEDBACK FORM
EVALUATION OF STAFF BY STUDENTS



P. A. POLYTECHNIC COLLEGE
POLLACHI – 642 002

DECE/AC-16 1
9.12.19

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

2019-2020 –Even Semester

FEEDBACK FORM – STUDENTS

EVALUATION ON FACULTY BY STUDENTS

Please rate every teacher taught you during this semester as classified below

Your response should be A, B, C, D or E

"A" is Excellent – 10
"B" is Very Good – 8
"C" is Good – 6 – 4
"D" is Satisfactory
"E" is Below Satisfactory – 2

DEPARTMENT: DECE

YEAR : IIIrd

SECTION : DECE

SEMESTER : VI

ACADEMIC YEAR : 2019 – 2020

S. No	PARAMETERS	SUBJECT NAME						
	NAME OF THE FACULTY							
1	Planning and Organizing Sessions	A	A	A	A	A	A	A
2	Punctuality And Regularity In Holding The Class	B	A	B	A	B	A	B0
3	Ability To Make Student Understand the Course (Presentation and Communication Skill)	A	A	A	A	A	A	A
4	Fairness In Assessment of Students	A	A	A	A	A	A	A
5	Faculty Student Relationship	A	A	A	A	A	A	A

NAME: S.S. Alagar Moorthy, DECE, SIGNATURE (OPTIONAL)

(OPTIONAL)

16

CONSOLIDATED FEEDBACK

P. A. POLYTECHNIC COLLEGE
POLLACHI – 642 002

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

DECE/AC-16.2
09.12.2019

2019-2020 – Even Semester

FEEDBACK SUMMARY FORM – STUDENTS

DATE OF REVIEW:
NAME OF THE FACULTY: S.PRIYATHARSINI
DEPT : ECE
YEAR: II
SUBJECT HANDLED: IE
SECTION : –
SEMESTER : IV

PARAMETERS

1. Planning and organizing sessions
2. Punctuality and regularity in holding the class
3. Ability to make student understand the course (Presentation and Communication skill)
4. Fairness in assessment of students
5. Faculty - Student Relationship

A (10) - Excellent. B (8) - Very Good C (6) - Good D (4) - Satisfactory E (2) - Below Satisfactory

S. NO	1	2	3	4	5	S. NO	1	2	3	4	5	S. NO	1	2	3	4	5
1	10	10	10	8	10	17	10	10	10	10	10	33					
2	10	10	10	10	10	18	8	10	8	8	8	34					
3	10	10	10	8	10	19	10	10	10	10	10	35					
4	8	8	8	6	10	20	10	8	10	10	8	36					
5	8	8	10	10	8	21	10	10	10	8	10	37					
6	10	10	10	10	10	22	10	10	10	10	10	38					
7	8	8	8	8	8	23	10	10	10	8	10	39					
8	10	10	10	10	10	24	8	8	8	6	10	40					
9	10	10	10	10	10	25	10	10	10	10	10	41					
10	10	10	10	10	10	26						42					
11	10	10	8	10	10	27						43					
12	10	10	10	8	10	28						44					
13	8	8	8	8	10	29						45					
14	10	8	10	6	10	30						46					
15	10	8	10	6	10	31						47					
16	10	10	10	8	10	32						48					

PARAMETER	1	2	3	4	5
AVERAGE SCORE (Max. 10)	9.4	9.4	9.5	8.6	9.7

S. Priyatharsini
CLASS COUNSELLOR

HOD

2.2.2. Initiatives to improve the quality of semester tests and assignments (15)

A. Process for internal semester question paper setting and evaluation and effective process Implementation (5)

- The Exam cell prepares the schedule of the internal test (CAT-Continuous Assessment Test) date based on academic calendar.
- The question paper is framed based on the syllabus completion for each test. The question papers are set by the course coordinator, verified and approved by the Head of the Department, Principal and handed over to the exam cell.
- Syllabus coverage of the internal test is shown in the Table 2.2.2.1

CAT-I Maximum marks:50	CAT-II Maximum marks:50	MODEL Maximum marks:75
Unit-I and Unit-II	Unit-III and Unit-IV	5 UNITS

- The internal question papers are prepared based on Board Question paper standard. The question paper pattern is shown in the Table 2.2.2.2

INTERNAL ASSESMENT QUESTION PATTERN (CAT-I & CAT-II) Engineering Physics – I, Engineering Chemistry –I, Engineering Mathematics-I, Engineering Physics –II, Engineering Chemistry – II, Engineering Mathematics-II Applied Mathematics,		
PART – A	4 Questions (Answer all the questions)	4 x 2 = 08 Marks
PART – B	4 Questions (Answer all the questions)	4 x3 = 12 Marks
PART – C	6 Questions (Answer all the questions)	6 x 5 = 30 Marks
	TOTAL	50 Marks
INTERNAL ASSESMENT QUESTION PATTERN(MODEL EXAM)		
PART – A	5 Questions (Answer all the questions)	5 x 2 = 10 Marks
PART – B	5 Questions (Answer all the questions)	5 x 3 = 15 Marks
PART – C	5 Questions (Answer any two questions from each part)	5 x 10 = 50 Marks
	TOTAL	75 Marks
DOTE EXAMINATION QUESTION PATTERN		
PART – A	5 Questions (Answer all the questions)	5 x 2 = 10 Marks
PART – B	5 Questions (Answer all the questions)	5 x 3 = 15 Marks
PART – C	5 Questions (Answer any two questions from each part)	5 x 10 = 50 Marks
	TOTAL	75 Marks

INTERNAL ASSESMENT QUESTION PATTERN (CAT-I & CAT-II) Engineering Graphics-I, Engineering Graphics-II		
PART – A	1 Questions	1 x 5 = 05Marks
PART – B	3 Questions (Answer all the questions)	3 x15 = 45 Marks
	TOTAL	50 Marks
INTERNAL ASSESMENT QUESTION PATTERN(MODEL EXAM)		
PART – A	3 Questions (Answer all the questions)	3 x 5 = 15Marks
PART – B	6 Questions (Answer any 4 questions)	4 x 15 = 60 Marks
	TOTAL	75 Marks
DOTE EXAMINATION QUESTION PATTERN		
PART – A	3 Questions (Answer all the questions)	3 x 5 = 15Marks
PART – B	6 Questions (Answer any 4 questions)	4 x 15 = 60 Marks
	TOTAL	75 Marks

INTERNAL ASSESMENT QUESTION PATTERN (CAT-I & CAT-II) (II & III YEAR)		
PART – A	4 Questions (Answer all the questions)	4 x 2 = 8 Marks
PART – B	4 Questions (Answer all the questions)	4 x 3 = 12 Marks
PART – C	3 Questions (Answer all the questions)	3 x 10 = 30 Marks
	TOTAL	50 Marks
INTERNAL ASSESMENT QUESTION PATTERN(MODEL EXAM)		
PART – A	8 Questions (Answer 5 questions, Q.NO:8 will be compulsory question)	5 x 2 = 10 Marks
PART – B	8 Questions (Answer 5 questions, Q.NO:16 will be compulsory question)	5 x 3 = 15 Marks
PART – C	5 Questions (Answer all the questions)	5 x 10 = 50 Marks
	TOTAL	75 Marks
DOTE EXAMINATION QUESTION PATTERN		
PART – A	8 Questions (Answer 5 questions, Q.NO:8 will be compulsory question)	5 x 2 = 10 Marks
PART – B	8 Questions (Answer 5 questions, Q.NO:16 will be compulsory question)	5 x 3 = 15 Marks
PART – C	5 Questions (Answer all the questions)	5 x 10 = 50 Marks
	TOTAL	75 Marks

- The answer key for the CAT/MODEL is prepared by the concerned faculty.
- The answer scripts are evaluated by the facultydistributed to the students for discussion.
- The evaluated answer scripts and the resultsare submitted to the Head Of the Department through class counselor.

B. Question paper setting taking into account outcomes/learning levels (5)

- The question paper is set such that it tests the knowledge, comprehension, application, analysis, synthesis and evaluation skills of the student.

Table 2.2.2.3- Internal Test Assessment Format

INTERNAL ASSESMENT QUESTION FORMAT FOR CAT-I & CAT-II (I year)														
Maximum marks (50)														
PART-A (4X2=08)				PART-B (4X3=12)				PART-C (6X05=30)						Marks Obtained
Q1 (2)	Q2 (2)	Q3 (2)	Q4 (2)	Q5 (3)	Q6 (3)	Q7 (3)	Q8 (3)	Q8 (5)	Q8 (5)	Q9 (5)	Q10 (5)	Q11 (5)	Q12 (5)	50
													Total	50

INTERNAL TEST ASSESSMENT FORMAT FOR MODEL EXAM (I year)															
Maximum marks (50)															
PART-A (5X2=10)					PART-B (5X3=15)					PART-C (6X05=30)					Marks Obtained
Q1 (2)	Q2 (2)	Q3 (2)	Q4 (2)	Q5 (2)	Q6 (3)	Q7 (3)	Q8 (3)	Q9 (3)	Q10 (3)	Q11 (5)	Q12 (5)	Q13 (5)	Q14 (5)	Q15 (5)	Q16 (5)	50
														Total	50

INTERNAL ASSESMENT QUESTION FORMAT FOR CAT-I & CAT-II (II & III YEAR)											
Maximum marks (50)											
PART-A (4X2=08)				PART-B (4X3=12)				PART-C (3X10=30)			Marks Obtained
Q1 (2)	Q2 (2)	Q3 (2)	Q4 (2)	Q5 (3)	Q6 (3)	Q7 (3)	Q8 (3)	Q9 (10)	Q10 (10)	Q11 (10)	50
										Total	50

<table>
<tr><th colspan="9">INTERNAL ASSESMENT QUESTION FORMAT FOR MODEL EXAM
(II & III YEAR)</th></tr>
<tr><th colspan="9">Maximum marks (75)</th></tr>
<tr><th colspan="8">PART-A (5 x2 = 10)
(Any 5 questions Q8 compulsory)</th><th>Marks Obtained</th></tr>
<tr><td>Q1
(2)</td><td>Q2
(2)</td><td>Q3
(2)</td><td>Q4
(2)</td><td>Q5
(2)</td><td>Q6
(2)</td><td>Q7
(2)</td><td>Q8
(2)</td><td>10</td></tr>
<tr><th colspan="8">Part-B (5 x3 = 15)
(Any 5 questions Q16 compulsory)</th><th>Marks Obtained</th></tr>
<tr><td>Q9
(3)</td><td>Q10
(3)</td><td>Q11
(3)</td><td>Q12
(3)</td><td>Q13
(3)</td><td>Q14
(3)</td><td>Q15
(3)</td><td>Q16
(3)</td><td>15</td></tr>
<tr><th colspan="8">PART-C(5 x10 = 50)
(Answer all question each have a or b choice)</th><th>Marks Obtained</th></tr>
<tr><td colspan="2">Q17
(10)</td><td colspan="2">Q18
(10)</td><td colspan="2">Q19
(10)</td><td colspan="2">Q20
(10)</td><td>Q21
(10)</td><td>50</td></tr>
<tr><td colspan="9">Total</td><td>75</td></tr>
</table>

P. A. POLYTECHNIC COLLEGE
POLLACHI – 642 002

2019-2020

CONTINUOUS ASSESSMENT TEST-II

Roll No ____

Programme : **DIPLOMA** Branch : **FIRST YEAR ENGINEERING** Semester : **II**	Date : **26.02.2020** Time : **2.55 TO 4.55**
Sub Code : **30023** Sub Name : **APPLIED MATHEMATICS**	Duration : **2 HOURS** Max. Marks : **50**

NOTE: ANSWER ALL THE QUESTIONS

PART – A (4 x 2 = 8 MARKS)

1. State the slope of the normal to the curve $y=x^3$ at (4, -2)
2. Write the conditions for minimum of the function y=f(x) at x=a.
3. Write down the auxiliary equation of of $4\frac{d^2y}{dx^2} - 12\frac{dy}{dx} + 9y=0$
4. Solve $(D^2-25)y=0$

PART – B (4 x 3 = 12 MARKS)

5. If $s=ae^t + be^{-t}$, show that acceleration is always equal to the distance passed over.
6. Find the minimum value of $y=x^2 - 4x$
7. Find the complementary function of $(D^2+5D+6)y=2\cos 3x$
8. Find the particular integral of $(D^2-3D+2)y = e^{-3x}$

PART – C (6 x 5 = 30 MARKS)

9. If the distance time for a particle is given by $S= 2t^3 + 3t^2 - 72t + 1$.(i) Find initial velocity (ii)Find the acceleration when the velocity is zero.
10. Find the equation of the tangent and Normal to the curve $y=6+x-x^2$ at (2, 4).
11. Find the maximum and minimum values of $y=2x^3+3x^2-36x+1$.
12. solve $\frac{d^2y}{dx^2} + \frac{dy}{dx} + y =0$.
13. Solve $(D^2+6D+5)y =2e^x$
14. Solve $(D^2+16)\ y=\sin 9x$

P. A. POLYTECHNIC COLLEGE
POLLACHI – 642 002

2019-2020
MODEL EXAM

Roll No ____

Programme: **DIPLOMA** Branch : **FIRST YEAR ENGINEERING** Semester : **I**	Date : **26.09.2019** Time : **9.00AM TO 12.00PM**
Sub Code : **30014** Sub Name : **ENGINEERING CHEMISTRY-I**	Duration : **3 HOURS** Max. Marks : **75**

[NOTE :(1) Answer any five questions in each of PART-A & PART-B and any two divisions of each question in PART-C
(2) Each question carries 2(two) marks in PART-A, 3(three) marks in PART-B and 5(five) marks for each division in PART C

PART – A (5 x 2 = 10 MARKS)

1. Define mole?
2. Define buffer solution. What is its type?
3. Define molarity.
4. What are the importances of nanoparticles?
5. Define promoter.
6. Define electrolessplating.
7. What are the differences between paint and varnish?
8. Define galvanization

PART – B (5 x 3 = 15 MARKS)

9. Explain the lewis concept of acid & bases.
10. Explain –What type of bonding is in the formation of ammonia molecule?
11. What are the differences between lyophilic and lyophobic colloids?
12. Explain the application of colloids.
13. Write a note on working and application of solar cell.
14. What are the varieties of glass? Explain
15. How will you prepare oil varnish?
16. Explain special paints.

PART – C (5 x 10 = 50 MARKS)

17. a) Derive the relationship between molecular mass and vapory density.
    b) Write the application of P^H in industries.
    c) Explain Ionic bond with suitable example

18. a) Find the mole fraction of solute and solvent in a solution containing 9-2gm of ethyl alcohol (C_2H_5 0H) is 180gfms of water. (Molecular mass of ethyl alcohol=46).
    b) Explain the properties of colloids.
    c) What are the applications of nanoparterials.
    i) Medicine ii) Electronics and iii)Bio materials.

19. a) Explain the Ion-exchange method of softening of hard water.
    b) Define catalyst- Write the industrial application of catalyst.
    c) Explain the manufacture of glass.

20. a) Define electrolysis. Explain it with example.
    b) Explain the formation of Daniel cell.
    c) Explain the construction and working of lead –acid storage cell.

P. A. POLYTECHNIC COLLEGE
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2019-2020

CONTINUOUS ASSESSMENT TEST-I

Roll No ____

Programme : **DIPLOMA** Branch : **ELECTRONICS AND COMMUNICATION ENGG** Semester : **V**	Date : **12.07.2019** Time : **11.15 TO 1.15**
Sub Code : **34071** Sub Name : **DIGITAL COMMUNICATION**	Duration : **2 HOURS** Max. Marks : **50**

NOTE:ANSWER ALL THE QUESTIONS

PART – A (4 x 2 = 8 MARKS)

1. What are the basic blocks of DC systems?
2. Compare serial and parallel transmission.
3. Define sampling theorem. Say its types.
4. Define uniform & non uniform quantization.

PART – B (4 x 3 = 12 MARKS)

5. State the advantages of DC system.
6. Define and explain unit impulse function.
7. Define- Aliasing? How to eliminate it?
8. Explain the process- Companding?

PART – C (3 x 10 = 30 MARKS)

9. Describe the following in details.
   - I) Periodic and non-periodic signal
   - II) Energy and power signal
   - III) Deterministic and random signal.
10. Briefly explain the following
    - I) Asynchronous Data transmission.
    - II) NRZ- PCM wave forms.
11. Briefly explain 3 types of sampling techniques

P. A. POLYTECHNIC COLLEGE
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2019-2020

MODEL EXAM

Roll No ____

Programme: DIPLOMA **Branch : DEEE & DECE (COMMON)** **Semester : III**	**Date : 18.09.19** **Time : 9.00 TO 12.00**
Sub Code : 34031 **Sub Name : ELECTRRONIC DEVICES AND CIRCUITS**	**Duration : 3 HOURS** **Max. Marks : 75**

[NOTE :(1) Q.NO.8 in PART-A and Q.NO.16 in PART –B are compulsory. Answer any FOUR questions from the remaining in each PART –A and PART-B.
(2) Answer division (a) or division (b) of each question in PART –C
(3) Each question carries 2 marks in PART –A,3 marks in part –B and 10 marks in PART-C]

PART – A (5 x 2 = 10 MARKS)

1. Say the types of semiconductor?
2. Draw the symbol of NPN&PNP transistor.
3. State the different regions in characteristics of UJT.
4. State Barkhausen criterion. .
5. What are the types of triggering of SCR.
6. List out the applications of DIAC.
7. What is clipper? Say its types?
8. What are the different types of filters?.

PART – B (5 x 3 = 15 MARKS)

9. Explain P-type semiconductor
10. Draw the emitter follower circuit diagram
11. Compare FET and BJT.
12. Define (i) break over voltage (ii) holding current
13. Explain MOSFET as a switch.
14. Draw the symbol of LDR and LED
15. What is solar cell?
16. Define avalanche and Zener breakdown.

PART – C (5 x 10 = 50 MARKS)

17. A) Explain the working of PN junction diode with its characteristics. **(OR)**
    B) Draw and explain the operation and characteristics of bridge rectifier.
18. A) Explain the briefly CE configuration and its characteristics **(OR)**
    B) Draw and explain RC coupled amplifier.
19. A) with the circuit diagram, explain the operation of a crystal oscillator. **(OR)**
    B) Explain the construction, working principle and Characteristics of N-channel JFET
20. A) Explain the 4 modes of operation of TRIAC **(OR)**
    B) Draw and explain the operation of N- channel De-MOSFET with suitable Diagrams.
21. A) Draw and explain the working of LED **(OR)**
    B) Explain briefly Monostable multivibrator.

C.COs coverage in class test / mid-term tests and assignments (5)

COs coverage in class test / mid-term tests

- Individual student's Answer book is evaluated and question answered by student is mapped with CO's and PO's

Table 2.2.2.4 COs coverage in class test / mid-term tests- Format

Course Name:VLSI		Course Code: VLSI (34037)				
		CO				
S.No	Title	1	2	3	4	5
1	CAT I	✓	✓			
2	CAT II			✓	✓	
3	MODEL Exam	✓	✓	✓	✓	✓

Quality of Assignment and its relevance to Cos

Table 2.2.2.5 COs coverage in Assignment - Format

Course Name:VLSI		Course Code: VLSI (34037)				
		CO				
S.No	Title	1	2	3	4	5
1	Assignment 1	✓	✓			
2	Assignment 2		✓	✓		
3	Assignment 3				✓	✓

- At the end of each month an assignment questions will be given to students, and student has to write it & submit within a week and each question is mapped with CO's .

Table 2.2.2.6 Assignments - Format

Title Page	Assignment Title , Student details
Content	Topics are described with necessary analytical explanations / illustrations as per title

The assignment pattern and mark allotment are tabulated below:

Table 2.2.2.7 Assignment and Evaluation Format

Item	Assignment 1	Assignment 2	Assignment 3	Total mark	Total Marks Convert Into
Marks	20	20	20	60	5

2.2.3 Quality of Experiments (15)

A. Experimental methodologies (5)

- Do's and Dont's of the each laboratory is explained by the faculty in charge.
- Laboratory manual explaining the details of the experiments such as tools/ equipment required, detailed procedure, necessary diagram, required formulae, relevant tabular column are provided to the student by the faculty member.
- Introduction and a model demonstration of the exercise are explained to the students.
- Proper and safe handling of tool is explained and demonstrated to the students.
- The experiments are carried out by the student in the supervision of faculty member and laboratory assistant.
- After carrying out the experiment the students complete their observation and it is assessed by the faculty member.
- The maintenance of different equipment'sis periodically done by lab assistant for better quality of experiments by students.
- Logbook is maintained by the laboratories throughout the year.

B. Innovative experiments including industry attached practices, virtual lab (5)

- As per the Experiments beyond the syllabus are conducted for the laboratory courses to improve the practical skills.
- Laboratory manual explaining the details of the experiment, designing issues are available with the subject lecturer and are provided to students at the commencement of the semester.
- Well-equipped lab and updating the practical as per the latest technologies helps the student to update himself.
- Students are encouraged to repeat the experiments to become skilled and experiments are designed for individual students to enhance their ability to prepare the protocols for a particular experiment (not for all labs).
- Virtual labs containing video lecturers, animated demonstration are created using web sources.

C.Relevance to outcomes (5)

A sample of experiment list and its mapping with respective Course Outcome statement is shown in the Table 2.2.3.1 below

Course Name: VLSI LAB	**Course Code: VLSI LAB (34057)**
C307.1	Apply the VHDL code for combinational circuit and arithmetic circuit.
C307.2	Apply the VHDL code for multiplexer and demultiplexer
C307.3	Demonstrate the VHDL implementation of multiplexer and demultiplexer
C307.4	Demonstrate the VHDL implementation of encoder and decoder
C307.5	Explain the VHDL code for blinking LED and array of LEDs

Course Name:VLSI LAB		**Course Code: VLSI LAB (34057)**						
Exp. No	**Title**	**Type**		**CO**				
		Study	**Perfor mance**	**1**	**2**	**3**	**4**	**5**
1	Simulation of Combinational Logic Circuit	✓	✓	✓				
2	Simulation of Arithmetic Circuit	✓	✓	✓				
3	Simulation of Multiplexer	✓	✓	✓				
4	Simulation of Demultiplexer	✓	✓		✓			
5	Implementation of Multiplexer	✓	✓		✓			
6	Implementation of Demultiplexer	✓	✓		✓			
7	Implementation of Seven Segment Decoder	✓	✓			✓		
8	Implementation of Seven Segment Decoder By Using LUT		✓			✓		
9	Implementation of Encoder	✓	✓			✓		
10	Simulation of VHDL Code For Delay		✓				✓	
11	Simulation of Testing A Gate		✓				✓	
12	Implementation of Blinking An LED		✓				✓	
13	Implementation for Blinking An Array of LED'S		✓					✓
14	Implementation of Speller with an Array of LED'S	✓	✓					✓
15	Implementation of Seven Segment Display	✓	✓					✓

2.2.4. Quality of Student Projects and report writing (35)

A. Identification of projects and allocation methodology (3)

Project allocation methodology:

Project Coordinator:

- At the beginning of the academic year HOD assigns the project coordinator.

Project Team Members:

- Project Team is formed based on the willingness of the students in their technical area of interest.
- The team comprises of maximum 6 members.

Guide Allocation:

- The area of specialization and field of interest from the faculty members are collected. The project batch is allocated based on the area of specialization of the faculty members.

Identification of projects:

The Student can select one of the domains which are listed below to do their main project. The details of the project domain are given below:

Project domains:

- Electronics
- Embedded System
- VLSI Design
- Communication systems
- Wireless Networks
- Automation

- Project coordinator collects the batch willingness and field of interest from each student.
- A batch of 5-6 students are formed in the 5th semester as per their field of interest and a faculty member is allotted as a guide to the batch.
- Batch members select multiple topics in their area of interest considering latest trends/demand in the industry or benefit for the society.
- The list of previous year projects is discussed in the 5th semester which ensures no repetition of previous projects.
- Under the guidance of faculty and head of the department, the batch finalizes the project topic.
- Project Synopsis is prepared and submitted at the end of the 5th semester by the students to get approval from the SQUAD members allotted by DOTE.

- Students are allowed to work for their projects beyond the working hours. They are also allowed to utilize the laboratory facilities for their projects.
- Faculty members extend their support in guiding the students beyond the working hours.
- Wi-Fi facility is also made accessible to the students for the betterment of their project works.

B. Types and Relevance of the projects and their contribution towards attainments of POs and PSOs (5)

The types of project relavent to the various domains listed below.

Table 2.2.4.1.Project Domains and its Outcome

S.No	Project domains	POs	PSOs
1	Electronics	1,2,3,4,5,6,7	1,2,3
2	Embedded System	1,2,3,4,5,6,7	1,2,3
3	VLSI Design	1,2,3,4,5,6,7	1,2,3
4	Communication systems	1,2,3,4,5,6,7	1,2,3
5	Wireless Networks	1,2,3,4,5,6,7	1,2,3
6	Automation	1,2,3,4,5,6,7	1,2,3

C. Process for Monitoring and Evaluation (5)

Process for monitoring:

- At the beginning of the 6th semester, review schedule is prepared by the project coordinator and approved by the head of the department. The schedule is displayed on the notice board for student reference.
- In the time table, 4 hours is allotted per week for project work.

Table 2.2.4.2 Project Review Format

S.No.	REVIEW	TENTATIVE DATE
1.	First Review	After 6weeks from the commencement of the semester
2.	Second Review	After 12 weeks from the commencement of the semester

Process for Evaluation:

- The progression and evaluation of the work is discussed at every review by the project committee members and coordinator.
- Students are assessed based on the presentation and the progression of their work.
- All the review marks are considered for the internal assessment.

- At the end of every academic year, the best project is awarded in the annual day function.
- Project evaluation marks are based on DOTE Guidelines.

Table 2.2.4.6 DOTE Regulation

Review I	Review II	Attendance	Internal mark	Board Examinations(75)	
				Written test mark (from 2 topic for 30 minutes duration)	Project work & viva voce
10	10	5	25	10	65

Table 2.2.4.3 Evaluation scheme for projects

S. No.	Performance Indicator
1.	Novelty of the work
2.	Tools - Hardware / Software support
3.	Methodology
4.	Presentation
5.	Project Demonstration
6.	Project Documentation

Table 2.2.4.5 Best Project Evaluation scheme:

S.No.	Performance Indicator
1.	Novelty of the project
2.	Presentation and Answering Queries
3.	Project Demonstration

D. Process to assess individual and team performance (5)

- Individual and team performance is assessed based on the project presentation and progress in the work.
- The students are encouraged to participate in project exhibitions as it provides common platform to exhibit their innovations and their work towards excellence in latest technology.

E. Quality of deliverable, working prototypes (12)

- Sample projects/prototypes are displayed in the respective laboratories and are listed in the Table 2.2.4.7:

CAY :2019-2020			
S.No.	**Name of the Students**	**Project title**	**In-house / Industry Project**
1.	Alagar Mrithuanj SS Gopalakrishnan T Ranjith Kumar P Seenivasan T Mohamed Nishath M	Smart Helmet For Two-Wheeler Riders Based On IOT	In-House
2.	Arunprasanth N Poovarasu D Rohit S Sakthikrishnan K Sasikumar E	Underground Cable Fault Distance Locator Using Arduino	In-House
3.	Bhavatharani D Divya M Jamuna M Sathiya M Thilagavathi N	Automatic Vehicle Number Plate Recognition System Using MATLAB	In-House
4.	Gokul K Krishnakanth R Pughazhenthi M Veeramuthu V Ramesh R	Vehicle Accident And Tracking System Based On IOT	Triox Technologies Limited, Coimbatore
5.	Gokula Krishnan T Suriyaprakash R Syed Abuthahir F Vinothkumar M Sethupathi P	Automatic Heart Attack Detection And Response System Through IOT	In-House
6.	Gokulprasath T Kathirvel S Krishnakanth P Praveen Sriman Chandru N	EVOT System Using Mobile SMS	In-House
7.	Krishnaveni M Preethi M Sabareeswari A Sasikala C Subhashini A R Sumithra M	RFID Based Museum Guidance System	In-House

CAYm1: 2018-2019			
S.No.	**Name of the Students**	**Project title**	**In-house / Industry Project**
1.	Aarthi K Ishwarya U Jayanthi K Pavadharani k	An Embedded Based Prepaid Water Supply System	In-house
2.	Abishek B Gokul T Gowtham E Harivignesh V	Intelligent Navigation System For Fishermen By Using Arduino and GPS	In-house
3.	Anusuya S Lakshmi S Loganayaki S Parvatha varthini R Sasivarnam V	Password Protected Bluetooth Remote Control	In-house
4.	Aravinth kumar K Lalith kumar R Muthu Krishnan S Ragupathy R	Hidden Active Cell Phone Detector& Locator Using GPS	In-house
5.	Azardeen S Gokul M Hariprakash V Kishok kumar L	Digital Garbage Bin for Clearing Waste in Commercial Places	In-house
6.	Gunasekar J Loganathan K Ramprakash M Sakthivel C Yogesh A	Women Safety Device With GPS Tracking	Allzone Systems Limited, Coimbatore
7.	Kasthuri K Kiruthika S Naheswari M Priya R	Water Quality Monitoring System By Using IOT And GPRS	In-house
8.	Mano K Naveen kumar S Surendran M Suresh kumar S Vignesh H	Arduino And GSM Based Wireless Notice Board	In-house

CAYm2: (2017-18)			
S.No.	**Name of the Students**	**Project title**	**In-house / Industry Project**
1.	Deepakarthick G Govindaraj R Mohammed ashif N Naveen chandran G Ragul prasanth M Arunachalam B S	Fastest Finger First System Using Raspberry PI	In-house
2.	Abdur rasheed S Aravind M Ashwin R Basher ahamed S Gokul N Vishnu S	Arduino Based Digital IC Tester Using MAT Lab	In-house
3.	Befrin agusta B Gayathri K Gomatheeswari B Pradeepa V Suganya K	Automatic Moisture and Light Control System In Garden	In-house
4.	Geetha bharathi M Mohaideen fathima M Nandhini K Rahema begam S Yasotha V	Auto Scheduler for Multiple Machines in an Industry	Crisp Project System, Coimbatore
5.	Bharath kumar N Nanda Kishore G V Pyntamil pari P Selva vishal P V Gurupranav K	GPS Based Master Slave Clock With RF Link	In-house

F. Papers published /Awards/Recognition received by projects at State / National level (5)

Table 2.2.4.8 List of Best Project Award

CAY :2019-2020			
S.No.	**Name of the Students**	**Project title**	**In-house / Industry Project**
1.	Gokul K Krishnakanth R Pughazhenthi M Veeramuthu V Ramesh R	Vehicle Accident And Tracking System Based On IOT	Triox Technologies Limited, Coimbatore
CAYm1: 2018-2019			
S.No.	**Name of the Students**	**Project title**	**In-house / Industry Project**
1.	Gunasekar J Loganathan K Ramprakash M Sakthivel C Yogesh A	Women Safety Device With GPS Tracking	Allzone Systems Limited, Coimbatore

CAYm2: (2017-18)			
S.No.	**Name of the Students**	**Project title**	**In-house / Industry Project**
1.	Geetha bharathi M Mohaideen fathima M Nandhini K Rahema begam S Yasotha V	Auto Scheduler for Multiple Machines in an Industry	Crisp Project System, Coimbatore.

2.2.5 Industry Interaction and Internship/ Industry Training (30)

A. Industry supported labs (2)

- To strengthen interaction with industries and to keep our students are updated with the latest trends in Electronics and Communication.

- Industry interactions help the students to acquire the practical knowledge. So in order to improve the technical abilities various industrial activities are carried out.
- The interaction with Industries has also led to the extension of their support to various Laboratories in the Department.

Table 2.2.5.1 Industry Supported Laboratory

CAY: 2019-20		
S No.	**Name of the Laboratory**	**Supported by**
1	PCB Design Laboratory	Allzone Systems, Coimbatore
CAYm1: 2018-19		
S No.	**Name of the Laboratory**	**Supported by**
1	ARDUINO Laboratory	Maxlabs systems private limited,Coimbatore
CAYm2:2017-18		
S No.	**Name of the Laboratory**	**Supported by**
1	Electronics Virtual Laboratory	Allzone Systems, Coimbatore

B. Delivery of appropriate course work by industry experts (5)

- Head of the department and staff members arrange the value added course, Guest Lecture, Seminar and Workshop for students to develop the technical skills. The courses conducted by professionals and industry experts are given below Table 2.2.5.2

S.No.	Date	Name of the Event	Name of the Speaker(s) With Designation
CAY: (2019-20)			
1.	10.03.2020	A One day Workshop on " ARM Processor"	Mr.M.Vignesh, Program Trainer, VI microSystems, Coimbatore
2.	14.02.2020	A Guest Lecture on "Artificial Intelligence"	Mr.Rijo George, Project Manager, Emglitz Technologies, Coimbatore.
3.	24.1.2020	One day Seminar "Internet of things"	Mr.S.Gunasekar, System Engineer, Sipcot Information Technology Park, Chennai.

4.	09.09.2019	Guest Lecture on "Emerging Trends in Mobile Communiction"	Mr. Vijay Golla, Technical Consultant, UTL Technologies Limited, Bengaluru.
5.	20.08.2019	A One day Workshop on "PCB Designing"	Mr.M.Gokul, Program Trainer, Allzone Systems, Ram Nagar, Coimbatore
6.	24.07.2019	Guest Lecture on "Emerging Trends In Tele Communication"	Mr.T.Senthil, Junior Telecom Officer 3G Core Network, BSNL,Coimbatore
CAYm1: 2018-19			
1.	16.03.2019	A Guest Lecture on "Wireless Commuication"	Ms.A.Akkash, Design Engineer Tessolve semiconductors limited, Coimbatore.
2.	05.02.2019	A One day Workshop on "PCB Designing"	Mr. V. Angappan, Proprietor, Megatech Scientific Instruments, Coimbatore.
3.	28.01.2019	One day Seminar on "Basics of Electronics"	Mr.N.Sethuraman, Senior Design Engineer, JRM Technologies, Gandhipuram, Coimbatore.
4.	05.09.2018	A Guest Lecture on "Latest Trends in Communication"	Mr.T.Senthil, Junior Telecom Officer 3G Core Network, BSNL, Coimbatore.
5.	09.08.2018	One day Seminar on "Optical Communication"	Mr.J.Sridhar Prabhu, Project Manager, Allzone Systems, Coimbatore.
6.	25.07.2018	A One day Workshop on "Embedded Systems"	Mr.Rijo George, Project Manager, Emglitz Technologies, Coimbatore.
CAYm2:2017-18			
1.	21.3.2018	A One day Workshop on "Components Identification and Testing"	Mr.Sridhar Prabhu, Project manager, Allzone Systems, Coimbatore

2.	19.2.2018	A Guest Lecture on" Lab View and Applications"	Mr. V. Angappan, Proprietor, Megatech Scientific Instruments, Coimbatore.
3.	27.12.2017	One Day Seminar on "Basics of Electronics Devices"	Mr.N.Sethuraman, Senior Design Engineer, JRM Technologies, Gandhipuram, Coimbatore

Regular training programs

- Students are encouraged to undergo inplant training and to visit various Industries for learning the working standards, process and procedures involved in the industries.

C. Industrial training/tours for students (3)

- Industrial training and Field visits are arranged to the students to enhance their practical knowledge and the industrial atmosphere.

Table 2.2.5.3 Industrial Visit

S.No.	Year	Date(S)	Industries Visited
CAY 2019-2020			
1.	III &II (Batch: 2017-2020) & (Batch: 2018-2021)	26.02.2020	Tata Institute of Fundamental Research, National Centre for Radio Astrophysics, Ooty.
2.	III (Batch: 2017-2020)	31.08.2019	Keltron Control Sankara Iyer Road, Junction, MG Road, Thrissur, Kerala.
3.	III &II (Batch: 2017-2020) & (Batch: 2018-2021)	5.10.2019	Qtech Solution,Pollachi
CAYm1:2018-2019			
1.	III (Batch: 2016-2019)	19.01.2019	Keltron Control Sankara Iyer Road, Junction, MG Road, Thrissur, Kerala

2.	III &II (Batch: 2016-2019) & (Batch: 2017-2020)	28.08.2018	MIT Distribution Transformer, Pollachi
CAYm2:2017-2018			
1.	III (Batch: 2015-2018)	20.2.2018	BSNL,Coimbatore
2.	III &II (Batch: 2015-2028) & (Batch: 2016-2019)	23.08.2017	Ramesh Plastic Industries,Sakthi Co-Operative Industrial Estate,, UdumalpetRoad.

D. Industrial Training/Internship (5)

- The students are encouraged to take internship program during their semester break. Faculty members give their guidelines, suggestions and scope and contact details of an internship. They also help the students by interacting with the industrial experts, provide the students recommendation letters and other necessary supports.
- The alumni who are working in the industries and request them to provide necessary guidelines and supports for their junior's internship.

Inplant Training:

- Students are motivated to undergo Industrial Trainings during summer/winter vacation for gaining better industrial exposure.

Table 2.2.5.4 Inplant Training

S. No.	Year	No. of the students	Name of the Company	Period
CAY 2019-2020				
1.	III	34	Gateway software solution, Gandhipuram, Coimbatore.	07.11.2019 to 17.11.2019
2.	III	32	Bsnl,Coimbatore	26.11.2019 to 30.11.2019
3.	II	25	First Choice Solar Systems, Udumalpet.	25.10.2019 to 08.11.2019
CAYm1:2018-2019				
1.	III	35	Qtech Solution,Pollachi	05.11.2018 to 25.11.2018
2.	II	35	MIT Distribution Transformer,Pollachi	05.11.2018 to 25.11.2018
3.	II	34	Ramesh Plastic Industries, Sakthi Co-Operative Industrial Estate,, Udumalpet Road.	20.4.2019 to 10.5.2019

CAYm2:2017-2018				
1.	III	26	Triphase Technologies, Bangalore	20.11.2017 to 30.11.2017
2.	II	36	MIT Distribution Transformer,Pollachi	28.10.2017 to 10.11.2017
3.	II	35	Qtech Solution,Pollachi	13.11.2017 to 28.11.2017

E. Post training/ internship Assessment (10)

- Post training assessment is done in following manner
- Students are asked to submit the in plant training report to the concerned course faculty.
- The students are required to present the knowledge obtained through the training in the form of PPTs.

F. Contribution to community related projects/activites (5)

The students are encouraged to develop community related project and activities. We are arranged NSS Camp for social activies like cleaning the village, awareness programs, white wash for schools, temple.

- The students in various departments also had done their projects in respect field as well as useful for the socities.

Table 2.2.5.5 List of community related projects

CAY :2019-2020				
S. No.	**Name of the Students**	**Project title**	**Guide**	**Effectiveness**
1.	Gokul K Krishnakanth R Pughazhenthi M Veeramuthu V Ramesh R	Vehicle Accident And Tracking System Based On IOT	Mr.P.Kathiravan	This project Developed to prevent the Road accidents.
CAYm1: 2018-2019				
S. No.	**Name of the Students**	**Project title**	**Guide**	**Effectiveness**
1.	Gunasekar J Loganathan K Ramprakash M Sakthivel C Yogesh A	Women Safety Device With GPS Tracking	R.Gowri	It act as a safety guard for women's
CAYm2: (2017-18)				

S. No.	Name of the Students	Project title	Guide	Effectiveness
1.	Geetha bharathi M Mohaideen fathima M Nandhini K Rahema begam S Yasotha V	Auto Scheduler for Multiple Machines in an Industry	R.Gowri	It is used to prevent the machine over load in Industries.

2.2.6 Information Access Facilities and Student Centric Learning Initiatives (15)

A.Availability of facilities& Effective Utilization (10)

Following information access facilities are provided to the students by college:

- **Department Library:**

  The department has books on all the subjects related to the curriculum and also some books which will help them gain extra knowledge. These books are issued to the students.

- **Videos**:

  Multimedia has many kinds of data such as text, audio, images, animation, video and interactive content. These make the learning complementary with the existing tools.

- **Access to other library in our campus**:

- The students also have access to libraries from other college in the campus.

- **CDS/DVDS:**

  CD/DVDs contain large amount of data in the form of video, documents and audio. Students can take back up from computer and store it in DVD.

- **E notes**: E notes helps students to complete assignments and study for exams.

Table 2.2.6.1 Availability of facilities& Effective Utilization

S. No	Facilities	Year	Subjects	Students Benefitted	Remark
1.	Videos	II	EDC,ECI,CE	All Students	Shown to students during lectures
		III	ACS,BMI,MC CHS&N		
2.	PPTs	II	SEMINAR, MINI PROJECTS	All Students	Shared with

		III	SEMINAR, PROJECTS		Students
3.	CD/DVD		BMI,CHS&N PROJECT	All Students	Shared with Students
4.	E- Notes	II	EDC,DE,LIC,CE, IE	All Students	E Notes are mailed to the students by faculty
		III	VLSI,BMI,MC		
5.	Websites	I,II, III	All Subjects	All Students	Internet facility is made available to all students on all PCs

B. Student centric learning initiatives & effective implementation. (5)

Table 2.2.6.2 Student centric learning initiatives & effective implementation

S. No	Activity	Skill Developed
1	**Summer internship**	Expand the knowledge and understanding of the fields; Contact the network professionals and administrators in the fields; and Gain hands on training andProfessional experience.
2	**Industry visits**	Industry visit is a part of the Education, during which Students visit companies and get insight into the internal working environment of the company.
3	**Projects and Field visit**	❖ Understand their subject better ❖ Get practical experience ❖ Have a chance to showcase their skills ❖ Learn team work, communication skills and responsibilities
4	**Guest Lectures, Seminar & Workshops**	As part of academic development, associations of all the departments arrange guest lectures and seminars throughout the year on topics of core subjects, Career oriented lectures, recent technologies and research Areas periodically.

2.2.7. New Initiatives for embedding Professional Skills (15)

A. Employability skill enhancement Initiatives and effective implementation (8)

- For creating specific ability improvement including correspondence, expert and center employability aptitudes classes on Professional Practices, Development of Life Skills and Entrepreneurship Development are led.

- Proficient Practice and Entrepreneurship Development are trans-disciplinary scholastic division concentrated on adaptable business related learning inside advanced education.

- Proficient Practice subject gives a stage to understudies to experience exercises which will empower them to create self-confidence.

It is accomplished in a few different ways

- Conducting Seminars
- Conducting Group Discussions
- Guest lectures on Communication Skills
- Preparing report on industrial visits expert lectures
- Organizing Paper Presentations.
- Quiz
- Entrepreneurship development

Table 2.2.7.1 Employability Skill Enhancement Program for Students

S. NO.	ACTIVITY	SKILL DEVELOPED
1	**Paper presentation**	Information Search, Structured writing,Communication , Concentration development
2	**Quiz**	Alertness, Assertive skill, Building confidence,Ethics
3	**Project Exhibition**	Working in Team, Task Management, presentation skills, Time management, Leadership
4	**Seminar**	Listening, Interaction, Group management
5	**Workshop**	Psychomotor skills, Troubleshoot
6	**Value Added course**	Psychomotor skills, Debugging, Teamwork

B. Personality development related initiatives & effective implementation (7)

- Personality development programs are conducted for students to improve their skills
- Student centered activities are conducted every semester through the subject professional Practice.
- Students are taken out for industrial visits and they are involved to interact with the industry people.
- Participation in sports, extra-curricular and co-curricular activities is encouraged to improve the different dimension to the personality of student

S. No	Event Organized	Resource Person	Date
1.	Soft Skills for Successful Career	Mr.Wonder Joky, Vice President (Operations), CIEL HR, Coimbatore.	05.02.2020

2.	Career planning and Development	Mr.S.Dwarakanathan, Ex. Vice President, Engg.R&D Brakes India Limited, Chennai.	16.08.2019
3.	C Programming	Mr.J.Santhosh, Lecturer/Computer Engineering, P.A.Polytechnic College, Pollachi.	08.02.2019
4.	Team Work and Stress Management	Mr.Sugumaran uppili, Co-Founder and Chief Technology Officer, Haritham Technologies , Coimbatore.	25.01.2019
5.	Aptitude and soft skills	Mr. M. Thanikachalam, Director , AWAKE IAS/IPS Academy, Coimbatore. Mrs.K.Karthika devi, Senior lecturer/English, P.A.Polytechnic college, Pollachi.	14.12.2018
6.	Awareness Programme on competitive examinations	Mr. K.Krishnamoorthy, Deputy Superintendent of Police, SDO, Pollachi.	08.02.18
7.	Leadership Skills and Time Management	Thiru.M. Malmarugan, Vice president(Operations) Magna Electro Castings Ltd, Coimbatore.	30.12.16
8.	"How Do I Find the Right Career for Me"	Prof.P.Surya narayanan, Former professor, Department of English, Government Arts College, Coimbatore.	10.06.16

2.2.8. Co-curricular & Extra Curricular Activities (10)

For the overall personality development of students, Cultural Activities, Sports Activities, Quiz Competition, Paper Presentation Competition, and Project Competitions are organized.

Cultural

After the odd semester exams, students look forward to cultural activities as a welcome change from the routine. Various competitions like singing, dancing, traditional day, sketching, rangolis etc are conducted in and around our institution.

Sports

Sports is not only a great stress buster but also develops many qualities like team work, sportsman spirit etc. Many individual and group sports competitions are conducted for all the students.

Paper presentation/Tech quiz/Project

Paper/poster presentation, quiz competition etc. are conducted inter department as well as inter-college wise for the students as a part of Engineers Day celebrations and as departmental activities.

NSS

In each academic year the NSS unit with few students is allowed to take part in NSS activities and is permitted to attend camps organized by them.

Co-CurricularActivities:

Table 2.2.8.1 Co- Curricular Activites

S. No.	Name of the Student	Event Description	Event Level (Inter- institute / State/National)	College Name	Awards
CAY :2019-2020					
1.	M.Krishnaveni	Two-day workshop	National	PA College of Engineering and Technology, Pollachi	Participated
2.	D.Bhavathatharani	Two-day workshop	National	PA College of Engineering and Technology, Pollachi	Participated
3.	A.Banu Priya	Paper presentation	National	CIT sandwich polytechnic college, Coimbatore	Participated
4.	M.MohamedNishath	Paper presentation	State	Sri Ramakrishna Polytechnic College, Coimbatore	Participated
5.	S.Rohit	Paper presentation	National	Sri Ramakrishna Polytechnic College, Coimbatore	Participated
6.	R.Kalyan	Quiz competition	National	CIT sandwich polytechnic college, Coimbatore	Participated
7.	N.J.Kishoor	Quiz competition	National	CIT sandwich polytechnic college, Coimbatore	Participated
8.	M.Krishnaveni	Paper presentation	State	Sri Ramakrishna Polytechnic College, Coimbatore	Participated
9.	D.Bhavathatharani	Paper presentation	State	Sri Ramakrishna Polytechnic College, Coimbatore.	Participated
10.	A.Banu Priya	Quiz competition	State	CIT sandwich polytechnic college, Coimbatore	Participated
11.	K.Sakthi Krishnan	Paper presentation	State	Sri Ramakrishna Polytechnic College, Coimbatore	Participated

12.	A.Sowmiya	Project Exhibition	Inter-Institute	PA College of Engineering and Technology, Pollachi	Participated
13.	N.J.Kishoor	Foco challenge in National Level Project Contest	National	PA College of Engineering and Technology, Pollachi	I Prize
14.	R.Kalyan	Foco challenge in National Level Project Contest	National	PA College of Engineering and Technology, Pollachi	I Prize
15.	N.J.Kishoor	Project Exhibition	Inter-Institute	PA College of Engineering and Technology, Pollachi	II Prize
16.	D.Vishnu	Project Exhibition	Inter-Institute	PA College of Engineering and Technology, Pollachi	II Prize
17.	R.Kalyan	Paper presentation	National	CIT sandwich polytechnic college, Coimbatore	Participated
18.	N.J.Kishoor	Paper presentation	National	CIT sandwich polytechnic college, Coimbatore	Participated
19.	M.MohamedNishath	Paper presentation	State	Sri Ramakrishna Engineering College, Coimbatore	Participated
CAYm1 (2018-2019)					
1.	M. Mohamed Nishath	Two Days TechnicalWorks hop on ”Firebird V Robot	State	Nachimuthu Polytechnic College, Pollachi	Participated
2.	K.Sakthi Krishnan	Two Days Technical Workshop on ”Firebird V Robot	State	Nachimuthu Polytechnic College, Pollachi	Participated
3.	B.Abishek	Paper presentation	State	Kongu Polytechnic College, Perundurai	Participated
4.	S.Suresh Kumar	Paper presentation	State	Kongu Polytechnic College, Perundurai	Participated
5.	S.Suresh Kumar	Project Exbitation	State	PA College of Engineering and Technology, Pollachi	Participated

6.	B.Abishek	Project Exbitation	State	PA College of Engineering and Technology, Pollachi	Participated
7.	V.Sasivarnam	One day seminar	State	APA Polytechnic College, Palani	Participated
8.	M.Krishnaveni	One-day Workshop	State	Sri Ramakrishna polytechnic college, Coimbatore	Participated
9.	U.Ishwaraya	One-day workshop	State	PA College of Engineering and Technology, Pollachi	Participated
10.	S.Suresh Kumar	One-day workshop	State	PA College of Engineering and Technology, Pollachi	Participated
11.	A.Jamuna	Quiz competition	State	Arulmurugan Polytechnic college, Karur	Participated
12.	D.Bhavathatharani	Quiz competition	State	Sri Ranganathar Institute of Polytechnic College, Coimbatore	Participated
CAYm2 (2017-2018)					
1.	S. Loganayaki	One-day Seminar	State	PA College of Engineering and Technology, Pollachi	Participated
2.	K.Aravinthkumar	One-day Seminar	State	PA College of Engineering and Technology, Pollachi	Participated
3.	S.Suresh Kumar	Two days workshop	State	Nachimuthu polytechnic college, Pollachi	Participated
4.	B.Abishek	Two days workshop	State	Nachimuthu polytechnic college, Pollachi	Participated
5.	M. Mohaidheen Fathima	Paper presentation	State	Ramakrishna Mission Vidhyala Polytechnic College, Coimbatore	Participated
6.	B.Befrin Augsta	Paper presentation	State	Ramakrishna Mission Vidhyala Polytechnic College,Coimbatore	Participated
7.	K.Nandhini	Quiz competition	State	Nachimuthu polytechnic college, Pollachi	Participated
8.	K.Suganya	Quiz competition	State	Nachimuthu Polytechnic college, Pollachi	Participated
9.	M. Mohaidheen Fathima	Project Exhibition	Inter-Institute	PA College of Engineering and Technology,Pollachi	Participated

10.	B.Befrin Augsta	Project Exhibition	Inter-Institute	PA College of Engineering and Technology, Pollachi	Participated

Extra -curricular Activities:

Table 2.2.8.2 Extra - Curricular Activites

S. No	Name of the Student	Event Description	Event Level (State/National)	College Name	Awards
CAY (2019-2020)					
1.	M.Rubina Begam	Rangoli	Intra polytechnic	P.A. Polytechnic College, Pollachi	I prize
2.	S.Sivabharathi	Rangoli	Intra polytechnic	P.A. Polytechnic College, Pollachi	I prize
3.	P.R.Kalyan	Running	Intra polytechnic	P.A. Polytechnic College, Pollachi	II prize
4.	M.Krishnaveni	Tamil Poetry	Intra polytechnic	P.A. Polytechnic College, Pollachi	I prize
5.	D.Bhavatharani	Tamil Poetry	Intra polytechnic	P.A. Polytechnic College, Pollachi	III prize
6.	N.Pavithara	English speech	Intra polytechnic	P.A. Polytechnic College, Pollachi	II prize
7.	S.Sivabharathi	Tamil speech	Womens development Cell	PA Institutions, Pollachi	II prize
8.	M.Krishnaveni	Mehandi	Intra polytechnic	P.A. Polytechnic College, Pollachi	I prize
9.	D.Bhavatharani	Mehandi	Intra polytechnic	P.A. Polytechnic College, Pollachi	I prize
10.	A.Sabareeswari	Mehandi	Intra polytechnic	P.A. Polytechnic College, Pollachi	III prize
11.	M.Divya	Mehandi	Intra polytechnic	P.A. Polytechnic College, Pollachi	III prize
12.	N.Pavithara	English speech	Womens development Cell	PA Institutions, Pollachi	II prize
13.	S.Sivabharathi	Tamil speech	Womens development Cell	PA Institutions, Pollachi	III prize
14.	A.Banu Priya	Mehandi	Womens development Cell	PA Institutions, Pollachi	I prize
15.	V.Kavitha	Mehandi	Womens development Cell	PA Institutions, Pollachi	I prize
16.	M.Krishnaveni	Javelin Throw	Intra polytechnic	P.A. Polytechnic College, Pollachi	II prize
17.	M Krishnaveni	Discus	Intra polytechnic	P.A. Polytechnic College, Pollachi	I prize
18.	P.R.Kalyan	Quiz	Intra polytechnic	P.A. Polytechnic College, Pollachi	II prize

19.	N.J.Kishoor	Quiz	Intra polytechnic	P.A. Polytechnic College, Pollachi	II prize
20.	M.Krishnaveni	NSS Camp	-	Government Elementary School, Kalipalayam Village, Negamam , Pollachi	Participated
21.	D.Bhavatharani	NSS Camp	-	Government Elementary School, Kalipalayam Village, Negamam , Pollachi	Participated
22.	A.Banu Priya	NSS Camp	-	Government Elementary School, Kalipalayam Village, Negamam , Pollachi	Participated
23.	V.Kavitha	NSS Camp	-	Government Elementary School, Kalipalayam Village, Negamam , Pollachi	Participated

CAYm1 (2018-2019)

1.	M Krishnaveni	Shotput	Intra polytechnic	P.A. Polytechnic College, Pollachi	Participated
2.	P.R.Kalyan	Long Jump	Intra polytechnic	P.A. Polytechnic College, Pollachi	II prize
3.	S.Anusuya	Inter polytechnic Athletic meet	Divisional	APA Polytechnic College, Palani	Participated
4.	N.Sasivarnam	Inter polytechnic Athletic meet	Divisional	APA Polytechnic College, Palani	Participated
5.	V.Sasivarnam	Rangoli	Intra polytechnic	P.A. Polytechnic College, Pollachi	I prize
6.	R.Paravathavarthini	Rangoli	Intra polytechnic	P.A. Polytechnic College, Pollachi	I prize
7.	M.Naheswari	Nail Art	Intra polytechnic	P.A. Polytechnic College, Pollachi	I prize
8.	M.Bharathi	Nail Art	Intra polytechnic	P.A. Polytechnic College, Pollachi	II prize
9.	M.Hemalatha	Nail Art	Intra polytechnic	P.A. Polytechnic College, Pollachi	II prize
10.	V.Deepa	Tamil Elocution	Womens development Cell	PA Institutions, Pollachi	II prize
11.	M.Krishnaveni	English Elocution	Womens development Cell	PA Institutions, Pollachi	II prize

12.	M.Krishnaveni	Poster Painting	Womens development Cell	PA Institutions, Pollachi	I prize
13.	M.Krishnaveni	Food Mela	Womens development Cell	PA Institutions, Pollachi	II prize
14.	D.Bhavathatharani	Food Mela	Womens development Cell	PA Institutions, Pollachi	II prize
15.	M.Sumithra	Mehandi	Womens development Cell	PA Institutions, Pollachi	II prize
16.	M.Sathya	Mehandi	Womens development Cell	PA Institutions, Pollachi	II prize
17.	V.Sasivarnam	Rangoli	Navarathri Festival 2018	NGM Arts And Science College, Pollachi	I prize
19.	V.Sasivarnam	NSS Camp	-	White wash in temples, Kalipalayam Village, Negamam , Pollachi	Participated
20.	R.Paravathavarthi ni	NSS Camp	-	White wash in temples, Kalipalayam Village, Negamam , Pollachi	Participated
21.	M.Sumithra	NSS Camp	-	White wash in temples , Kalipalayam Village, Negamam , Pollachi	Participated
22.	M.Sathya	NSS Camp	-	White wash in temples, Kalipalayam Village, Negamam , Pollachi	Participated

CAYm2 (2017-2018)

1.	S.Gopala Krishnan	Volley ball	Divisional	Inter Polytechnic College Athletics Association, Directorate Of Technical Education, Chennai	III prize
2.	K.Gurupranav	Volley ball	Divisional	Inter Polytechnic College Athletics Association, Directorate Of Technical Education, Chennai	III prize
3.	B.Befrin Augsta	Tamil Essay Writing	Intra polytechnic	P.A. Polytechnic College, Pollachi	II prize
4.	B.Befrin Augsta	Drawing	Intra polytechnic	P.A. Polytechnic College, Pollachi	III prize
5.	K.Suganya(Third Year)	Drawing	Intra polytechnic	P.A. Polytechnic College, Pollachi	I prize
6.	M. MohaidheenFathima	English Essay Writing	Intra polytechnic	P.A. Polytechnic College, Pollachi	I prize

7.	B.Befrin Augsta	Poster painting	Womens development cell	PA institutions, Pollachi	II prize
8.	S.Rahema Begam	Nail art	Womens development cell	PA institutions , Pollachi	II prize
9.	S.Rahema Begam	Mehandi hand art	Womens development cell	PA institutions, Pollachi	II prize
10.	B.Befrin Augsta	Mehandi hand art	Womens development cell	PA institutions, Pollachi	I prize
11.	M.Krishnaveni	Craftwork	Womens development cell	PA institutions, Pollachi	II prize
12.	C.Sasikala	Craftwork	Womens development cell	PA institutions, Pollachi	II prize
13.	S.Suresh Kumar	English Essay Writing	Intra polytechnic	P.A. Polytechnic College, Pollachi	III prize
14.	M. Mohaidheen Fathima	Tamil and English Speech	Womens development cell	PA institutions, Pollachi	I prize
15.	V.Sasivarnam	Rangoli	Navarathri Festival 2017	NGM Arts And Science College, Pollachi	I prize
16.	R.Paravathavarthini	Rangoli	Navarathri Festival 2017	NGM Arts And Science College, Pollachi	I prize
17.	K.Nandhini	NSS Camp	-	AIDS Awareness Program, Kalipalayam Village, Negamam , Pollachi	Participated
18.	B.Gomatheeswari	NSS Camp	-	AIDS Awareness Program, Kalipalayam Village, Negamam , Pollachi	Participated
19.	A.Aarthi	NSS Camp	-	AIDS Awareness Program, Kalipalayam Village, Negamam , Pollachi	Participated
20.	R.Paravathavarthini	NSS Camp	-	AIDS Awareness Program, Kalipalayam Village, Negamam , Pollachi	Participated

CRITERION 3	COURSE OUTCOMES AND PROGRAM OUTCOMES	100

3.1. Establish the correlation between the courses and the Program Outcomes (POs) and Program Specific Outcomes (PSOs) (20)

Program Outcomes:

PO 1: Basic and Discipline specific knowledge

PO 2: Problem analysis

PO 3: Design/development of solutions

PO 4: Engineering Tools, experimentation and testing

PO 5: Engineering practice for society, sustainability and environment

PO 6: Project management

PO 7: Life-long learning

Program Specific Outcomes

PSO1:

To sculpture the students to understand the principles and applications in electronics engineering with relevant modern communication technologies.

PSO2:

To demonstrate the proficiency in use of modern application oriented tools and software required to provide innovative solution for global requirements.

PSO3:

To communicate professionally and effectively with ethical and social values to serve the society.

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3.1.1. Course Outcomes (SAR should include course outcomes of one course from each semester of study, however, should be prepared for all courses) (05)

Table 3.1.1.1 Course Outcomes (CO)

The Students can able to

Course Name	C103-ENGINEERING PHYSICS- I	Course year	2016-17	Semester	1
C103.1	Discuss SI units and various forces acting on a rest body.				
C103.2	Determine the bending of beams. Discuss applications of viscosity and surface tension.				
C103.3	Explain the concept of projectile, circular and simple harmonic motion.				
C103.4	Explain the concept of rotary motion of rigid bodies, Gravitation and uses of artificial satellites.				
C103.5	Discuss wave motion, acoustics of buildings and importance of magnetism.				

Course Name	C112-ENGINEERING PHYSICS- II	Course year	2016-17	Semester	2
C112.1	Discuss properties of good and poor conductor and kinetic theory of gases.				
C112.2	Explain the basic laws of thermodynamics and classification of energy sources.				
C112.3	Explain the concept of laser, optical fiber and RADAR.				
C112.4	Acquire knowledge in the field of heating, chemical and magnetic effects of electric current.				
C112.5	Obtain the knowledge of capacitors, semiconductor, integrated circuits and logic gates.				

Course Name	C202-ELECTRICAL CIRCUITSAND INSTRUMENTATION	Course year	2017-18	Semester	3
C202.1	Able to use measure and analyse the circuits using basic theorems.				
C202.2	Calculate all the parameters related to AC and DC resonance circuits.				
C202.3	Design and analyze the transformer and its types.				
C202.4	Understand about different instruments that are used for measurement purposes.				
C202.5	Understand various types of recorders, transducer and testing instruments.				

Course Name	C208-INDUSTRIAL ELECTRONICS	Course year	2017-18	Semester	4
C208.1	The basic concepts, working principles of power devices and also can understand the triggering of SCR.				
C208.2	Know about the Understand various types of converters and choppers.				
C208.3	Learn about principles of inverters and its various types.				
C208.4	Know about the basic principles and ladder programming of PLC.				
C208.5	Express the architecture and basic principles of DCS and LCU.				

Course Name	C303 –VERY LARGE SCALE INTEGRATION	Course year	2018-19	Semester	5
C303.1	Understand the device level implementation of digital gates and combinational circuit design.				
C303.2	Develop knowledge about the building block for combinational circuits and apply the VHDL code for any combinational circuit.				
C303.3	Explain the functionality of various flip flops through its excitation table, counters and shift registers.				
C303.4	Apply the VHDL code for any sequential circuits.				
C303.5	Understand the importance of PLA, PAL, PLD, CPLD, FPGA and ASIC hardware.				

Course Name	C310 –MOBILE COMMUNICATION	Course year	2018-19	Semester	6
C310.1	Know about the various wireless communication systems and basic ideas of cellular phone.				
C310.2	Understand the digital audio, video broadcasting and convergence of it.				
C310.3	Learn about GSM services and various types of architectures of mobile services.				
C310.4	Know about the various mobile services 2.5G, 3G with its wireless application protocol.				
C310.5	Know the mobile network and transport layer with DHCP and TCP.				

3.1.2. CO-PO /PSO matrices of courses selected in 3.1.1 (six matrices to be mentioned; one course per semester from 1st to 6th semester) (05)

Table 3.1.2.1 CO-PO/PSO Matrices

Course Name	C102–ENGINEERING PHYSICS I			Course year 2016-17		Semester	1
PO / CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7
C102.1	2	1	1	1	1	1	1
C102.2	2	2	-	1	1	-	1
C102.3	2	1	-	-	1	-	-
C102.4	2	1	-	-	1	-	-
C102.5	2	1	1	2	1	1	2
C102	2	1.2	1	1.33	1	1	1.33

PSO / CO	PSO1	PSO2	PSO3
C102.1	2	-	-
C102.2	2	-	-
C102.3	2	-	-
C102.4	2	-	-
C102.5	2	-	1
C102	2	-	1

Course Name	C112–ENGINEERING PHYSICS II			Course year 2016-17		Semester	2
PO / CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7
C112.1	-	1	-	-	1	-	-
C112.2	-	-	-	-	1	-	-
C112.3	2	1	1	2	-	3	2
C112.4	3	3	2	2	-	3	2
C112.5	3	1	1	2	-	3	2
C112	2.67	1.5	1.33	2	1	3	2

PSO / CO	PSO1	PSO2	PSO3
C102.1	-	-	2
C102.2	-	-	2
C102.3	2	1	-
C102.4	3	1	-
C102.5	3	1	-
C102	2.67	1	2

Course Name	C202–ELECTRICAL CIRCUITSAND INSTRUMENTATION			Course year 2017-18		Semester	3
PO / CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7
C202.1	3	3	2	3	2	3	2
C202.2	3	3	2	3	2	3	2
C202.3	3	1	1	1	2	-	2
C202.4	3	1	1	1	2	-	2
C202.5	3	1	1	1	2	-	2
C202	3	1.8	1.4	1.8	2	3	2

PSO / CO	PSO1	PSO2	PSO3
C202.1	3	2	-
C202.2	3	2	-
C202.3	2	2	-
C202.4	2	2	2
C202.5	3	2	2
C202	2.6	2	2

Course Name	C208–INDUSTRIAL ELECTRONICS			Course year 2017-18		Semester	4
PO / CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7
C210.1	3	3	2	2	-	2	2
C210.2	3	-	2	2	-	2	2
C210.3	3	-	2	1	-	2	1
C210.4	2	-	1	2	1	2	2
C210.5	2	-	1	-	1	2	1
C210	2.6	3	1.6	1.75	1	2	1.6

PSO / CO	PSO1	PSO2	PSO3
C210.1	3	2	-
C210.2	3	2	-
C210.3	3	2	-
C210.4	3	2	-
C210.5	2	-	2
C210	2.8	2	2

Course Name	C303–VERY LARGE SCALE INTEGRATION			Course year 2018-19		Semester	5
PO / CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7
C303.1	3	2	2	1	-	1	2
C303.2	3	1	3	2	2	2	2
C303.3	3	2	2	2	-	1	2
C303.4	3	1	2	2	-	2	2
C303.5	3	2	2	-	-	1	2
C303	3	1.6	2.2	1.75	2	1.4	2

PSO / CO	PSO1	PSO2	PSO3
C303.1	3	2	-
C303.2	3	2	2
C303.3	2	2	-
C303.4	2	1	-
C303.5	2	-	-
C303	2.4	1.75	2

Course Name	C310–MOBILE COMMUNICATION			**Course year 2018-19**		**Semester**	**6**
PO / CO	**PO1**	**PO2**	**PO3**	**PO4**	**PO5**	**PO6**	**PO7**
C310.1	3	2	3	-	2	-	-
C310.2	2	-	-	2	2	-	1
C310.3	2	1	3	2	2	3	2
C310.4	2	1	3	-	3	3	2
C310.5	2	1	-	-	2	-	1
C310	2.2	1.25	3	2	2.2	3	1.5

PSO / CO	PSO1	PSO2	PSO3
C310.1	3	-	2
C310.2	2	1	2
C310.3	2	-	2
C310.4	2	-	2
C3103.5	2	-	-
C310	2.2	1	2

3.1.3 Program level Course-PO/PSO matrix of all courses INCLUDING first year courses (10)

Table 3.1.3.1 COURSE-PO/PSO Matrix

Course	Course Name	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PSO1	PSO2	PSO3
C101	Communication English -I	0	0	0	0	1.2	1	0	0	0	2
C102	Engineering Mathematics-I	1	3	2	0	0	0	2	1	0	0
C103	Engineering Physics -I	2	1.2	1	1.33	1	1	1.33	2	0	1
C104	Engineering Chemistry-I	1	1	1	1	0	0	1	1	1	0
C105	Engineering Graphics-I	1	1	1	1	0	0	1	1	1	1
C106	Engineering Physics-I Practical	2	1	1	2	1	0	2	1	1	0
C107	Engineering Chemistry –I Practical	0	2	0	0	2	0	1	0	0	0
C108	Workshop Practice	2	2	1.2	2	2	1.67	1.67	2	0	2
C109	Communication English -II	0	0	0	0	2	1	1	0	0	2

C110	Engineering Mathematics-II	1.4	3	1.4	0	1	1	2	1.4	0	0
C111	Applied Mathematics	2	3	2	0	0	1.2	2	1.2	0	0
C112	Engineering Physics -II	2.67	1.5	1.33	2	1	3	2	2.67	1	2
C113	Engineering Chemistry-II	1	1	0	1	2.6	1	2	1	0	1.6
C114	Engineering Graphics-II	1	1	1.5	1.8	0	0	2	1	0	1
C115	Engineering Physics-II Practical	2.4	1	1	2	0	3	2	2.4	0	2
C116	Engineering Chemistry – II Practical	0	0	0	2	2	0	1	0	0	2
C201	Electronic Devices and Circuits	3	1.2	1.4	1	2	1.6	3	3	2	2
C202	Electrical Circuits and Instrumentation	3	1.8	1.4	1.8	2	3	2	2.6	2	2
C203	Programming in “C”	1.8	1.6	1.6	2	2	2	2	2	3	2
C204	Electronic Devices and Circuits Practical	3	3	3	3	2	2	3	2	3	2
C205	Electrical Circuits and Instrumentation Practical	3	3	3	1	2	3	3	2	3	2
C206	Programming in “C” Practical	3	3	3	1	0	2	2.2	3	3	2
C207	Computer Application Practical for Electronics	3	3	3	2	1	2	3	3	2	2
C208	Industrial Electronics	2.6	3	1.6	1.75	1	2	1.6	2.8	2	2
C209	Communication Engineering	3	3	2	1.5	1	2	3	2.6	1.4	2
C210	Digital Electronics	3	1.8	3	1	0	1.4	2.4	3	1.2	2
C211	Linear Integrated Circuits	2.4	1.75	2	2	1.25	2	3	2.2	1	2
C212	Industrial Electronics and Communication Engineering practical	3	3	3	3	2	3	3	3	3	2

C213	Integrated Circuits Practical	3	3	3	3	0	3	3	3	3	2
C214	Life and Employability Skill Practical	0	0	0	0	1.8	2.2	2.6	2	2.67	2.2
C301	Advanced Communication Systems	3	1.4	1.33	2	2	1.5	1.6	3	1.5	1
C302	Microcontroller	3	1.8	2.2	1.5	2	1.5	1.2	3	1.5	1
C303	Very large Scale Integration	3	1.6	2.2	1.75	2	1.4	2	2.4	1.75	2
C304	Digital Communication	3	1.6	1.33	1.5	2	2	2	2.8	1.33	2
C305	Advanced Communication Systems Practical	3	1.75	1.8	3	1.5	3	1.75	2.4	3	2
C306	Microcontroller Practical	3	3	1.5	3	2	1.4	1.6	3	2	2
C307	Very Large Scale Integration Practical	3	3	2.2	3	0	3	1.6	3	2	0
C308	Computer Hardware Servicing and Networking	2.4	1.67	1.67	1.5	1.5	1.67	2	1.8	2	2
C309	Bio Medical Instrumentation	2	3	3	1.5	1.5	1.67	2	1.8	1	2
C310	Mobile Communication	2.2	1.25	3	2	2.2	3	1.5	2.2	1	2
C311	Computer Hardware Servicing and Networking Practical	2	1.6	1.6	1.4	2	2.8	2	2	1.4	2
C312	PCB Design Practical	3	0	3	0	0	3	3	3	3	1
C313	Embedded Systems Practical	2.4	0	3	3	2	3	2	2	3	2
C314	Project work	3	1	3	2	3	3	3	3	2	2
	Direct Target	2.40	2.01	2.01	1.94	1.79	2.08	2.04	2.23	1.96	1.83
	Indirect Target	2.50	2.30	2.02	1.66	1.57	1.78	1.68	2.47	2.29	1.56
	Total Target	2.42	2.07	2.01	1.88	1.75	2.02	1.97	2.28	2.03	1.78

3.2. Attainment of Course Outcomes (40)

3.2.1. Describe the assessment processes used to gather the data upon which the evaluation of Course Outcome is based (10)

Course Performance – BOARD Examination Assessment

The Board examination is conducted for the courses for maximum of 75 Marks with 3 hours duration by DOTE. The performance of the students in the board examination is considered as the major part of attainment of course outcomes of each course. The Class Counsellor will collect the result obtained by each student in every course from the DOTE web portal and prepare result analysis. The attainment is analyzed based on the DOTE mark analysis.

Course Performance – Internal Examination Assessment

An Internal assessment is carried out based on the marks scored by student from Continuous Assessment Test (CAT) by the department. A series of two Continuous Assessment Tests and one Model Exam are conducted in accordance with the academic calendar. Continuous assessment test will carry 50 marks and 75marks in Model Exam. The Continuous Assessment Test I addresses the CO1 and CO2, Continuous Assessment Test II will address the CO3 and CO4 and Model Exam will address CO1 to CO5. The assessment is carried out by the course faculty in-charge once the Continuous Assessment Test is completed.

The evaluation pattern for all the courses consists of continuous internal assessment and Board examination with 25% and 75 % weightage respectively. The internal assessment comprises of 25 marks which is

CAT Exam	-	5 Marks
Model Exam	-	5 Marks
Home Assignment	-	5 Marks
Seminar	-	5 Marks
Attendance	-	5 Marks

Question pattern for the Continuous Assessment Tests, Model examination and Board Examination are framed as below table 3.2.1.1

Table 3.2.1.1 Question Pattern

CONTINUOUS ASSESSMENT TEST QUESTION PATTERN Engineering Physics – I, Engineering Chemistry –I, Engineering Mathematics-I, Engineering Physics –II, Engineering Chemistry – II, Engineering Mathematics-II, Applied Mathematics.		
PART – A	4 Questions (Answer all the questions)	4 x 2 = 08 Marks
PART – B	4 Questions (Answer all the questions)	4 x 3 = 12 Marks
PART – C	6 Questions (Answer all the questions)	6 x 5 = 30 Marks
	TOTAL	50 Marks
MODEL EXAM QUESTION PATTERN		
PART – A	8 Questions (Answer any FIVE questions)	5 x 2 = 10 Marks
PART – B	8 Questions (Answer any FIVE questions)	5 x 3 = 15 Marks
PART – C	8 Questions (Answer any TWO divisions of each questions)	10 x 5 = 50 Marks
	TOTAL	75 Marks
BOARD EXAMINATION QUESTION PATTERN		
PART – A	8 Questions (Answer any FIVE questions)	5 x 2 = 10 Marks
PART – B	8 Questions (Answer any FIVE questions)	5 x 3 = 15 Marks
PART – C	5 Questions (Answer any TWO divisions of each questions)	5 x 10 = 50 Marks
	TOTAL	75 Marks

CONTINUOUS ASSESSMENT TEST QUESTION PATTERN Engineering Graphics-I, Engineering Graphics-II		
PART – A	1 Question	1 x 5 = 05 Marks
PART – B	3 Questions (Answer all the questions)	3 x 15 = 45 Marks
	TOTAL	50 Marks
MODEL EXAM QUESTION PATTERN		
PART – A	3 Questions (Answer all the questions)	3 x 5 = 15 Marks
PART – B	6 Questions (Answer any FOUR questions)	4 x 15 = 60 Marks
	TOTAL	75 Marks
BOARD EXAMINATION QUESTION PATTERN		
PART – A	3 Questions (Answer all the questions)	3 x 5 = 15 Marks
PART – B	6 Questions (Answer any FOUR questions)	4 x 15 = 60 Marks
	TOTAL	75 Marks

CONTIUOUS ASSESSMENT TEST QUESTION PATTERN		
PART – A	4 Questions (Answer all the questions)	4 x 2 = 08 Marks
PART – B	4 Questions (Answer all the questions)	4 x 3 = 12 Marks
PART – C	3 Questions (Answer all the questions)	3 x 10 = 30 Marks
	TOTAL	50 Marks
MODEL EXAM QUESTION PATTERN		
PART – A	8 Questions (Answer any FIVE questions) (Question no. 8 compulsory)	5 x 2 = 10 Marks
PART – B	8 Questions (Answer any FIVE questions) (Question no. 16 compulsory)	5 x 3 = 15 Marks
PART – C	5 Questions (Answer all the questions)	5 x 10 = 50 Marks
	TOTAL	75 Marks

BOARD EXAMINATION QUESTION PATTERN		
PART – A	8 Questions (Answer any FIVE questions) (Question no. 8 compulsory)	5 x 2 = 10 Marks
PART – B	8 Questions (Answer any FIVE questions) (Question no. 16 compulsory)	5 x 3 = 15 Marks
PART – C	5 Questions (Answer all the questions)	5 x 10 = 50 Marks
	TOTAL	75 Marks

Assignment:

Assignments are given to the students to enhance learning and understanding. The assignments are evaluated once in a month by the Faculty in-charge.

Seminar:

Seminar topics are given to the students to showcase their understanding of the subject which is recorded by the Faculty in-charge.

Laboratory Experiments:

Laboratory experiments will address the CO of the respective group of experiment. The results of such experiments are included for assessment process by the Faculty in -charge.

Internal marks (25) are evaluated for the lab course as

- ✓ Observation - 10 Marks
- ✓ Record Writing - 10 Marks
- ✓ Attendance - 5 Marks
- ✓ Total - 25 Marks

Assessment process for Projects

Students are divided into groups, wherein each group has a maximum of 5 students. Each group is supervised by a faculty and the reviews are conducted and the students will be reviewed by review committee members. Internal marks are awarded based on their performance in project reviews.

Table 3.2.1.2 Review Pattern

Review I Pattern			Review II Pattern		
Presentation skills	=	20 Marks	Presentation skills	=	05 Marks
Status of report	=	20 Marks	Status of report	=	20 Marks
Technical skills	=	20 Marks	Technical skills	=	05 Marks
Model assembly	=	20 Marks	Model assembly	=	20 Marks
Viva voce	=	20 Marks	Viva voce	=	10 Marks
Total	**=**	**20 Marks**	**Total**	**=**	**20 Marks**

*Each Review Marks are converted to 10.

3.2.2 Record the attainment of Course Outcomes of all courses with respect to set attainment levels (30)

- ✓ **Attainment Level 1:**30-39% of the students scoring > 50% of Marks in direct assessment method.
- ✓ **Attainment Level 2:**40 - 49% of the students scoring more than > 50% of Marks in direct assessment method.
- ✓ **Attainment Level 3 :**> = 50% of the students scored more than > 50% of Marks in direct assessment method.

Table 3.2.2.1 Overall Course Outcome Attainments

Courses	Course Name	CO1	CO2	CO3	CO4	CO5	Total Attainment	Attainment Level
C101	Communication English -I	78.4	78.43	74.51	74.51	74.51	76.07	3
C102	Engineering Mathematics-I	82.6	82.61	80.43	76.09	78.26	79.99	3
C103	Engineering Physics -I	52.2	52.17	52.17	52.17	56.52	53.04	3
C104	Engineering Chemistry-I	69.6	69.57	71.74	69.57	63.04	68.70	3
C105	Engineering Graphics-I	91.3	91.3	91.3	91.3	91.3	91.3	3
C106	Engineering Physics-I Practical	89.1	86.96	86.96	89.13	86.96	87.82	3
C107	Engineering Chemistry –I Practical	84.8	84.78	84.78	84.78	84.78	84.78	3
C108	Workshop Practice	80.4	80.43	80.43	80.43	80.43	80.42	3
C109	Communication English -II	68.6	79.07	79.07	76.74	74.42	75.58	3
C110	Engineering Mathematics-II	72.1	72.09	72.09	72.09	72.09	72.09	3
C111	Applied Mathematics	72.1	67.44	69.77	67.44	67.44	68.83	3
C112	Engineering Physics -II	58.1	58.14	58.14	58.14	55.81	57.66	3
C113	Engineering Chemistry-II	65.1	62.79	65.12	65.12	65.12	64.65	3
C114	Engineering Graphics-II	69.8	67.44	67.44	69.77	62.79	67.44	3
C115	Engineering Physics-II Practical	86.0	88.37	88.37	88.37	88.37	87.89	3
C116	Engineering Chemistry –II Practical	76.7	76.74	79.07	79.07	79.07	78.13	3
C201	Electronic Devices and Circuits	38.5	38.46	38.46	38.46	35.90	37.95	1
C202	Electrical Circuits and Instrumentation	35.9	33.33	35.90	35.90	35.90	35.38	1
C203	Programming in “C”	17.9	16.07	16.07	17.86	16.07	16.79	0

C204	Electronic devices and Circuits Practical	97.4	94.87	97.44	97.44	94.87	96.40	3
C205	Electrical Circuits and Instrumentation Practical	90.2	90.24	90.24	90.24	90.24	90.23	3
C206	Programming in "C" practical	97.4	97.44	97.44	97.44	94.87	96.91	3
C207	Computer Application Practical for Electronics	94.9	94.87	94.87	94.87	94.87	94.87	3
C208	Industrial Electronics	61.5	58.97	56.41	56.41	53.85	57.42	3
C209	Communication Engineering	46.2	46.15	46.15	46.15	51.28	47.18	2
C210	Digital Electronics	43.6	41.03	41.03	38.46	38.46	40.51	2
C211	Linear Integrated Circuits	46.2	46.03	46.15	41.03	41.03	44.08	2
C212	Industrial Electronics and Communication Engineering practical	78.0	82.93	78.05	78.05	78.05	79.01	3
C213	Integrated Circuits Practical	87.8	82.93	82.93	85.37	85.37	84.88	3
C214	Life and employability skill Practical	82.1	74.36	74.36	74.36	74.36	75.90	3
C301	Advanced Communication Systems	59.0	58.97	58.97	58.97	56.41	58.46	3
C302	Microcontroller	57.1	53.57	50	53.57	53.57	53.56	3
C303	Very large Scale Integration	46.2	46.15	41.03	41.03	38.46	42.57	2
C304	Digital Communication	69.2	66.67	66.67	66.67	66.67	67.17	3
C305	Advanced Communication Systems Practical	84.6	84.62	84.62	84.62	84.62	84.61	3
C306	Microcontroller Practical	84.6	84.62	84.62	84.62	84.62	84.61	3
C307	Very Large Scale Integration Practical	84.6	84.62	84.62	84.62	84.62	84.61	3
C308	Computer Hardware Servicing and Networking	69.4	69.44	63.89	72.22	72.22	69.43	3
C309	Bio Medical Instrumentation	66.7	66.67	66.67	66.67	66.67	66.67	3

C310	Mobile Communication	63.89	63.89	63.89	63.89	66.67	64.44	3
C311	Computer Hardware Servicing and Networking Practical	88.9	88.89	88.89	88.89	88.89	88.89	3
C312	Embedded Systems Practical	83.3	83.33	83.33	83.33	83.33	83.32	3
C313	PCB Design practical	86.1	86.11	86.11	86.11	86.11	86.10	3
C314	Project work	88.9	88.89	88.89	88.89	88.89	88.89	3

Overall Course Outcome attainment

- ✓ Overall attainment level is calculated based on 80% weightage of direct assessment and 20% weightage of indirect assessment.

Table 3.2.2.2 Sample Attainment

Subject: C310 MOBILE COMMUNICATION

CO	% of Attainment	% of Attainment		% of Grade attainment distribution		
		Average Grade on Scale of 3	Target ≥ 50%	3.0	2.0	1.0
CO1	63.89	3	Y	63.89	5.55	30.55
CO2	63.89	3	Y	63.89	5.55	30.55
CO3	63.89	3	Y	63.89	2.77	33.33
CO4	63.89	3	Y	63.89	5.55	30.55
CO5	66.67	3	Y	66.67	2.77	30.55

Sample showing the course attainment for the course

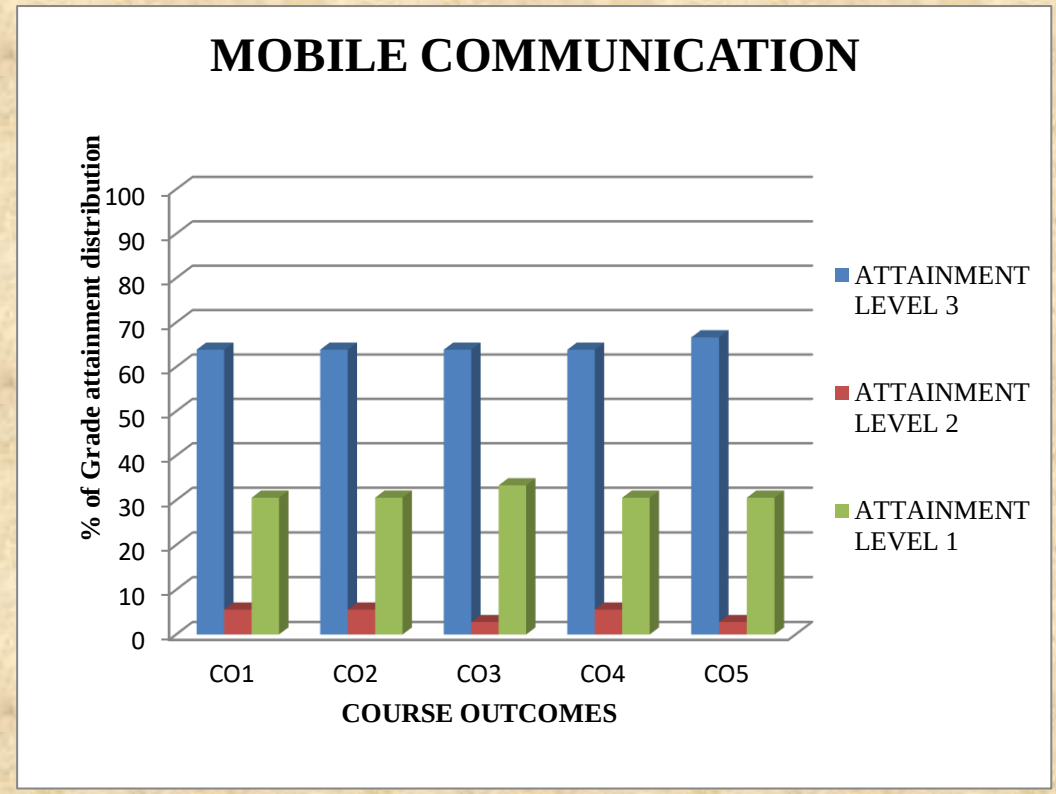


Figure 3.2.2.1 Course Attainment for Mobile communication

3.3. Attainment of Program Outcomes and Program Specific Outcomes (40)

3.3.1. Describe assessment tools and processes used for assessing the attainment of each of the Program Outcomes (POs) and Program Specific Outcomes (PSOs) (10)

The Assessment methods for attainment of POs and PSOs are

- ✓ Direct method
- ✓ Indirect method

Direct Method

For all the courses, direct attainment method involves the assessment of students through examinations (Both Internal and Board).

Indirect Method

Indirect attainment is determined based on survey among Students, Employer, Alumni, Parents, Exit Survey and Industrial Visits.

These items are elaborated in the table below.

Table 3. 3.1.1 Assessment Type

Assessment Type	Assessment Tool	Decision Criteria	Data Collection Frequency
Direct	Course Performance – Board Examination	Number of Students Passed	Once in every Semester
	Course Performance – Internal Examination	Students Performance	Once in a month
	Laboratory		After completion of exercise
Indirect	Exit Survey	80% of students get satisfied	At the end of the Program
	Employer feedback Survey	70% of Employer Participated in survey get satisfied	Yearly
	Alumni feedback Survey	70% of Alumni participated in survey get satisfied	Yearly
	Parents feedback Survey	70% of Parents participated in survey get satisfied	Once in a Semester
	Student feedback Survey	90% of Students get satisfied	On completion of Semester
	Industrial Visit feedback	80% of students get satisfied	On Completion of Visit

The attainment of PO and PSO for each course is calculated using the direct and indirect assessment and also the CO- PO correlation Weightage. This is done by the following formula.

Attainment = (CO / PO Mapping Weightage*Assessment Weightage) / 3

3.3.2. Provide results of evaluation of each PO & PSO (30)

The evaluation result of each POs and PSOs are shown in the Table 3.6.

Table 3.3.2.1 Program Outcome Attainment CAYm1 2016-2019

Courses	Course Name	PO 1	PO2	PO3	PO4	PO5	PO6	PO 7	PSO 1	PSO2	PSO3
C101	Communication English -I	0	0	0	0	1.2	1	0	0	0	2
C102	Engineering Mathematics-I	1	3	2	0	0	0	2	1	0	0
C103	Engineering Physics -I	2	1.2	1	1.33	1	1	1.33	2	-	1
C104	Engineering Chemistry-I	1	1	1	1	0	0	1	1	1	0
C105	Engineering Graphics-I	1	1	1	0	0	0	1	1	1	1
C106	Engineering Physics-I Practical	2	1	1	2	1	0	2	1	1	0
C107	Engineering Chemistry –I Practical	0	2	0	0	2	0	1	0	0	0
C108	Workshop Practice	2	2	1.2	2	2	1.67	1.67	2	-	1
C109	Communication English -II	0	0	0	0	2	1	0	0	0	2
C110	Engineering Mathematics-II	1.4	3	1.4	0	1	1	2	1.4	0	0
C111	Applied Mathematics	2	3	2	0	0	1.2	2	1.2	0	0
C112	Engineering Physics -II	2.67	1.5	1.33	2	1	3	2	2.67	1	2
C113	Engineering Chemistry-II	1	1	0	1	2.6	1	2	1	0	1.6

C114	Engineering Graphics-II	1	1	1.5	0	0	0	2	1	0	1
C115	Engineering Physics-II Practical	2.4	1	1	2	0	3	2	2.4	0	2
C116	Engineering Chemistry –II Practical	0	0	0	2	2	0	1	0	0	2
C201	Electronic Devices And Circuits	1	0.4	0.47	0.33	0.67	0.53	1	1	0.67	0.67
C202	Electrical Circuits And Instrumentation	1	0.6	0.47	0.6	0.67	1	0.67	0.87	0.67	0.67
C203	Programming in “C”	0	0	0	0	0	0	0	0	0	0
C204	Electronic Devices and Circuits Practical	3	3	3	3	2	2	3	2	3	2
C205	Electrical Circuits and Instrumentation Practical	3	3	3	1	2	3	3	2	3	2
C206	Programming in “C” Practical	3	3	3	1	0	2	2.2	3	3	2
C207	Computer Application Practical for Electronics	3	3	3	2	1	2	3	3	2	2
C208	Industrial Electronics	2.6	3	1.6	1.75	1	2	1.6	2.8	2	2
C209	Communication Engineering	2.2	2	1.33	1.47	0	1.47	2.20	1.87	0.73	1.47
C210	Digital	1.6	1	1.6	1	0	0.67	1.2	1.6	0.53	1.33

	Electronics										
C211	Linear Integrated Circuits	2	1	1.6	1	1	1	2	1.6	1	2
C212	Industrial Electronics and Communication Engineering Practical	3	3	3	3	2	3	3	3	3	2
C213	Integrated Circuits Practical	3	3	3	3	0	3	3	3	3	2
C214	Life and Employability Skill Practical	2	0	0	0	1.8	2.2	2.6	2	2.67	2.2
C301	Advanced Communication Systems	3	1.4	1.33	2	2	1.5	1.6	3	1.5	1
C302	Microcontroller	2.2	1.33	1.67	1.17	1.67	1.17	0.93	2.2	1.17	1
C303	Very large Scale Integration	1.8	0.93	1.33	1.17	1.33	0.87	1.2	1.47	1.17	1.33
C304	Digital Communication	3	1.6	1.33	1.5	2	2	2	2.8	1.33	2
C305	Advanced Communication Systems Practical	3	1.75	1.8	3	1.5	3	1.75	2.4	3	2
C306	Microcontroller Practical	3	3	1.5	3	2	1.4	1.6	3	2	2
C307	Very Large Scale Integration Practical	1.8	1.8	1.27	1.8	0	1.8	0.93	1.8	1.2	0
C308	Computer Hardware Servicing and Networking	2.4	1.67	1.67	2	0	1.67	2	1.8	1	2
C309	Bio Medical Instrumentation	2	2.6	1	1.5	1.5	1.33	2	2	1.33	1.25

C310	Mobile Communication	2.2	1.25	3	2	0	3	1.5	2.2	1	2
C311	Computer Hardware Servicing and Networking Practical	2	1.6	1.6	1.4	2	2.8	2	2	1.4	2
C312	PCB Design Practical	3	0	3	3	0	3	3	3	3	1
C313	Embedded Systems Practical	2.4	0	3	3	2	3	2	2	3	2
C314	Project Work	3	1	3	2	3	3	3	3	2	2
Direct Attainment		2.17	1.83	1.78	1.77	1.62	1.87	1.88	2.00	1.72	1.65
Indirect Attainment		2.35	2.14	1.92	1.52	1.35	1.59	1.51	2.32	2.1	1.37
Total Attainment		2.21	1.89	1.81	1.72	1.56	1.81	1.80	2.06	1.80	1.59

CRITERION 4	STUDENTS' PERFORMANCE	(200)

Intake Information:

Item	CAY (2019-2020)	CAYm1 (2018-2019)	CAYm2 (2017-2018)	CAYm3 (2016-2017)	CAYm4 (2015-2016)	CAYm5 (2014-2015)
Sanctioned intake strength of the program (N)	60	60	60	60	60	120
Total number of students admitted through state level counseling (N1)	28	30	31	30	30	20
Number of students admitted through Institute level quota (N2)	1	6	20	16	3	2
Number of students admitted through lateral entry (N3)	0	2	3	0	2	0
Total number of students admitted in the Program (N1 + N2 + N3)	29	38	54	46	35	22

Year of entry	N1 + N2 + N3 (As defined above)	Number of students who have successfully graduated without backlogs in any semester/year of study (Without Backlog means no compartment or failures in any semester/year of study)		
		I Year	II Year	III Year
2019-20	29	0	0	0
2018-19	38	11	0	0
2017-18	54	16	11	11
2016-17	46	24	12	12

(LYG)				
2015-16 (LYGm1)	35	20	16	13
2014-15 (LYGm2)	22	17	14	15

4.1. Enrolment Ratio (20)

Enrolment Ratio= (N1+N2) / N = (116/180) = **64.44%**

Year	N1	N2	N	Enrolment ratio= (N1+N2)/N	Percentage
2019-20	28	1	60	(28+01)/60=0.483	48.33%
2018-19	30	6	60	(30+06)/60=0.600	60.00%
2017-18	31	20	60	(31+20)/60=0.850	85.00%
Average				**0.644**	**64.44 %**

4.2. Success Rate in the stipulated period of the program (60)

4.2.1. Success rate without backlogs in any year of study (40)

Item	Latest Passed Batch (2017-18)	Latest Passed Batch minus 1 (2016-17)	Latest Passed Batch minus 2 (2015-16)
Total number of students (admitted through state level counseling + admitted through institute on level quota + actually admitted through lateral entry) (N1+N2+N3)	46	35	22
Number of students who have passed without backlogs in the stipulated period	12	13	14
Success Index (SI)	0.26	0.37	0.64
Average Success Index	**0.42**		

Assessment [40*average SI]:16.80

4.2.2. Success rate with backlog in stipulated period of study (20)

Item	Latest Passed Batch (2017-18)	Latest Passed Batch minus 1 (2016-17)	Latest Passed Batch minus 2 (2015-16)
Total number of students (admitted through state level counseling + admitted through Institute on level quota+ actually admitted through lateral entry) (N1 + N2 + N3)	46	35	22
Number of students who have passed with backlog in the stipulated period	16	16	18
Success Index (SI)	0.35	0.46	0.82
Average Success Index	**0.54**		

Assessment [20*average SI]:10.87

4.3. Academic Performance in First Year (25)

Academic Performance	CAY*m*1 2018-2019	CAY*m*2 2017-2018	CAY*m*3 2016-2017
Mean of CGPA or Mean Percentage of all successful students (X)	6.36	7.40	7.81
Total no. of successful students (Y)	16	16	18
Total no. of students appeared in the examination (Z)	39	28	20
API = X* (Y/Z)	2.61	4.23	7.03
Average API = (AP1 + AP2 + AP3)/3	**4.62**		

Assessment [1.5*average API]:6.94

4.4. Academic Performance in Second Year (20)

Academic Performance	CAY*m*1 2018-2019	CAY*m*2 2017-2018	CAY*m*3 2016-2017
Mean of CGPA or Mean Percentage of all successful students (X)	5.56	7.16	7.63
Total no. of successful students (Y)	41	39	28
Total no. of students appeared in the	44	41	28

examination (Z)			
API = X* (Y/Z)	5.18	6.81	7.63
Average API = (AP1 + AP2 + AP3)/3	**6.54**		

Assessment [2.0*average API]:13.08

4.5. Academic Performance in Final Year (15)

Academic Performance	2016-2017 LYG	2015-2016 LYGm1	2014-2015 LYGm2
Mean of CGPA or Mean Percentage of all successful students (X)	6.00	7.36	7.75
Total no. of successful students (Y)	33.00	41.00	41.00
Total no. of students appeared in the examination (Z)	36.00	51.00	46.00
API = X* (Y/Z)	5.50	5.92	6.91
Average API = (AP1 + AP2 + AP3)/3	6.11		

Assessment [2.5*average API]:15.28

4.6. Placement, Higher Studies and Entrepreneurship (40)

Assessment Points = 40 × Average placement=38.40

Item	Last Year Graduate, (LYG)	Last Year Graduate Minus 1 Batch, (LYGm1)	Last Year Graduate Minus 2 Batch, (LYGm2)
Total No. of Final Year Students (N)	39	28	20
No. of students placed in companies or Government Sector (X)	20	18	13
No. of students admitted to higher studies (Y)	2	9	5
No. of students turned entrepreneur in the respective field of engineering/technology (Z)	0	0	0
Placement Index (P) : (1.25X + Y +Z)/N	**0.69**	**1.12**	**1.06**
Average placement= (P1 + P2 + P3)/3	**0.96**		

4.6.a. Provide the placement data in the below mentioned format with the name of the program and the assessment year (separately for CAYm1, CAYm2 and CAYm3): Programs Name and Assessment Year

Electronics and Communication Engineering				
S. No	**Student Name**	**Entrolment No**	**Employee Name**	**Appointment No**
2014-2015				
1	RISHMITHA.S	14407207	KYB MOTORCYCLE SUSPENSION INDIA PVT.LTD	KYB/16-17/PA-EC-01
2	ATCHAYADEVI.R	15406065	KYB MOTORCYCLE SUSPENSION INDIA PVT.LTD	KYB/16-17/PA-EC-02
3	GOMATHI.S	15406069	KYB MOTORCYCLE SUSPENSION INDIA PVT.LTD	KYB/16-17/PA-EC-03
4	SUSMITHA.B	15406084	KYB MOTORCYCLE SUSPENSION INDIA PVT.LTD	KYB/16-17/PA-EC-04
5	LAVANYA.A	15406073	TRIPHASE TECHNOLOGIES	2K17-PA-EC-01
6	MATHUMITHA.R	15406074	TRIPHASE TECHNOLOGIES	2K17-PA-EC-02
7	MOHANAPRIYA.S	15406075	TRIPHASE TECHNOLOGIES	2K17-PA-EC-03
8	NITHYAPRABHA.M	15406076	TRIPHASE TECHNOLOGIES	2K17-PA-EC-04
9	SANGEETHA.V	15406081	TRIPHASE TECHNOLOGIES	2K17-PA-EC-05
10	AJITHKUMAR P	15406064	RISING STAR MOBILES INDIA PVT LTD	RMI/PAEC17CB-01
11	HARIHARAN S	15406070	RISING STAR MOBILES INDIA PVT LTD	RMI/PAEC17CB-02
12	SREERAM K	15406082	RISING STAR MOBILES INDIA PVT LTD	RMI/PAEC17CB-03
13	VIGNESHWARI P	14407226	RISING STAR MOBILES INDIA PVT LTD	RMI/PAEC17CB-04

Electronics and Communication Engineering				
S. No	**Student Name**	**Entrolment No**	**Employee Name**	**Appointment No**
2015-2016				
1	BHARATH KUMAR.N	16406057	ARTRIA CONVERGENCE TECHNOLOGIES LTD	ACT/TNCB/EC-01

2	GOVINDRAJ.R	16406064	ARTRIA CONVERGENCE TECHNOLOGIES LTD	ACT/TNCB/EC-02
3	GURU PRANAV	16411114	ARTRIA CONVERGENCE TECHNOLOGIES LTD	ACT/TNCB/EC-03
4	NANDAKISHORE.G.V	16406071	TRIPHASE TECHNOLOGIES	2K18-PA-EC-01
5	K.GAYATHRI	16406060	KYB MOTOR CYCLE SUSPENSION INDIA PVT LTD	KYB/17-18/PA-EC-01
6	GEETHABHARATHI. M	16406061	KYB MOTOR CYCLE SUSPENSION INDIA PVT LTD	KYB/17-18/PA-EC-02
7	PRATHEEBA.V	16406074	KYB MOTOR CYCLE SUSPENSION INDIA PVT LTD	KYB/17-18/PA-EC-03
8	ARAVIND.M	16406052	AVALON TECHNOLOGIES	18PAEC-01
9	DEEPAKARTHICK.G	16406058	AVALON TECHNOLOGIES	18PAEC-02
10	BEFRIN AGUSTA.B	16406056	RISING STAR MOBILES INDIA PVT LTD	RMI/PAEC18CB-01
11	MOHAIDEENFATHIM A.M	16406067	RISING STAR MOBILES INDIA PVT LTD	RMI/PAEC18CB-02
12	RAHEMABEGAM.S	16406077	RISING STAR MOBILES INDIA PVT LTD	RMI/PAEC18CB-03
13	SELVA VISHAL P V	16406078	RISING STAR MOBILES INDIA PVT LTD	RMI/PAEC18CB-04
14	ARUNACHALAM B S	16411113	RISING STAR MOBILES INDIA PVT LTD	RMI/PAEC18CB-05
15	SUGANYA V	16406080	RISING STAR MOBILES INDIA PVT LTD	RMI/PAEC18CB-06
16	PYNTAMIL PARI P	16406075	RISING STAR MOBILES INDIA PVT LTD	RMI/PAEC18CB-07
17	RAGUL PRASATH M	16406076	RISING STAR MOBILES INDIA PVT LTD	RMI/PAEC18CB-08
18	VISHNU **S**	16406082	RISING STAR MOBILES INDIA PVT LTD	RMI/PAEC18CB-09

Electronics and Communication Engineering				
S. No	**Student Name**	**Entrolment No**	**Employee Name**	**Appointment No**
2016-2017				
1	K16EC10	GUNASEKAR.J	AVALON TECHNOLOGIES	19PAEC-01
2	K16EC42	SURESHKUMAR S	TRIPHASE TECHNOLOGIES	2K19-PA-EC-01
3	K16EC01	AARTHI .A	KYB MOTOR CYCLE SUSPENSION INDIA PVT LTD.	KYB/18-19/PA-EC-01
4	K16EC03	ANUSUYA.S	KYB MOTOR CYCLE SUSPENSION INDIA PVT LTD.	KYB/18-19/PA-EC-02

5	K16EC04	ARAVINTHKUMAR.K	KYB MOTOR CYCLE SUSPENSION INDIA PVT LTD.	KYB/18-19/PA-EC-03
6	K16EC13	ISHWARYA.U	KYB MOTOR CYCLE SUSPENSION INDIA PVT LTD.	KYB/18-19/PA-EC-04
7	K16EC15	JAYANTHI.K	KYB MOTOR CYCLE SUSPENSION INDIA PVT LTD.	KYB/18-19/PA-EC-05
8	K16EC16	KASTHURI K	KYB MOTOR CYCLE SUSPENSION INDIA PVT LTD.	KYB/18-19/PA-EC-06
9	K16EC35	PRIYA R	KYB MOTOR CYCLE SUSPENSION INDIA PVT LTD.	KYB/18-19/PA-EC-07
10	K16EC40	SASIVARNAM V	KYB MOTOR CYCLE SUSPENSION INDIA PVT LTD.	KYB/18-19/PA-EC-08
11	K16EC22	LOGANAYAKI.S	CALIBER INTERCONNECT SOLUTIONS (P) LTD	CIS19/PA-EC/01
12	K16EC09	GOWTHAM E	RISING STAR MOBILES INDIA PVT LTD	RMI/PAEC19CB-01
13	K16EC11	HARIPRAKASH V	RISING STAR MOBILES INDIA PVT LTD	RMI/PAEC19CB-02
14	K16EC17	KIRUTHIKA S	RISING STAR MOBILES INDIA PVT LTD	RMI/PAEC19CB-03
15	K16EC19	LAKSHMI S	RISING STAR MOBILES INDIA PVT LTD	RMI/PAEC19CB-04
16	K16EC21	LOGANATHAN K	RISING STAR MOBILES INDIA PVT LTD	RMI/PAEC19CB-05
17	K16EC24	MANO K	RISING STAR MOBILES INDIA PVT LTD	RMI/PAEC19CB-06
18	K16EC26	MUTHU KRISHNAN S	RISING STAR MOBILES INDIA PVT LTD	RMI/PAEC19CB-07
19	KI6EC28	NAHESWARI M	RISING STAR MOBILES INDIA PVT LTD	RMI/PAEC19CB-08
20	K16EC14	ISWARYA J	RISING STAR MOBILES INDIA PVT LTD	RMI/PAEC19CB-09

4.7. Professional Activities (20)

4.7.1. Professional societies / student chapters and organizing technical events (10)

A. Availability of Professional Societies/Chapters & Relevant activities (05)

1. Association of Electronics and Communication Engineering
2. Virtual Electronic Club – PAVEC

Association of Electronics and communication Engineering - Office Bearers Details

2019-20			
S.No	**Name of the Student**	**Designation**	**Class**
1	MOHAMED NISHATH M	Secretary	III/ECE

2	KRISHNAKANTH P	Joint Secretary	III/ECE
3	KALYAN P R	Joint Secretary	II/ECE
4	BHAVATHARANI D	Additional Secretary	III/ECE
5	SOWMIYA A	Additional Secretary	II/ECE
6	KRISHNAVENI M	Treasurer	III/ECE
7	JAMUNA M	Joint Treasurer	III/ECE
8	SAKTHI KRISHNAN K	Executive Member	III/ECE
9	GOKUL K	Executive Member	III/ECE
10	SASIKUMAR E	Executive Member	III/ECE
11	KISHOOR N	Executive Member	II/ECE
12	RAGULRAJ V	Executive Member	II/ECE

2018-19

S.No	Name of the Student	Designation	Class
1	SURESHKUMAR S	Secretary	III/ECE
2	SAKTHI KRISHNAN K	Joint Secretary	II/ECE
3	ABISHEK B	Treasurer	III/ECE
4	JAMUNA M	Joint Treasurer	II/ECE
5	LOGANAYAKI S	Executive Member	III/ECE
6	NAHESWARI M	Executive Member	III/ECE
7	NAVEENKUMAR S	Executive Member	III/ECE
8	HARIPRAKASH V	Executive Member	III/ECE
9	MOHAMED NISHATH M	Executive Member	II/ECE
10	KRISHNAKANTH P	Executive Member	II/ECE
11	KRISHNAVENI M	Executive Member	II/ECE
12	SETHUPATHI P	Executive Member	II/ECE
13	SUMITHRA M	Executive Member	III/ECE
14	SASIKALA C	Executive Member	III/ECE
15	BANUPRIYA A	Executive Member	II/ECE

2017-18			
S.No	**Name of the Student**	**Designation**	**Class**
1	NANDAKISHORE G V	Secretary	III/ECE
2	SURESHKUMAR S	Joint Secretary	II/ECE
3	DEEPAKARTHICK G	Treasurer	III/ECE
4	ABISHEK B	Joint Treasurer	II/ECE
5	BEFRIN AGUSTA B	Executive Member	III/ECE
6	GEETHABHARATHI M	Executive Member	III/ECE
7	LOGANAYAKI S	Executive Member	II/ECE
8	RAHEMA BEGAM S	Executive Member	II/ECE
9	NAHESWARI M	Executive Member	II/ECE
10	NAVEENKUMAR S	Executive Member	II/ECE
11	HARIPRAKASH V	Executive Member	II/ECE
121	SUGANYA K	Executive Member	III/ECE

B. Number, quality of engineering events (05)
(Level – Institute / State / National / International)

S. No.	Academic Year	Level	Number of engineering events
1.	2019-2020	STATE	2
		INSTITUTE	13
2.	2018-2019	STATE	2
		INSTITUTE	12
3.	2017-2018	STATE	1
		INSTITUTE	12
4.	2016-2017	STATE	1
		INSTITUTE	10

Engineering events organized at institute:

S.No.	Date	Name of the Event	Level
CAY: (2019-20)			

1.	14.02.2020	Guest Lecture on "Artificial Intelligence"	Institute
2.	24.07.2019	Guest Lecture on "Emerging Trends In Tele Communication"	Institute
3.	20.08.2019	one day Workshop on "PIC Programming"	Institute
4.	10.03.2020	one day Workshop on " ARM Processor"	Institute
5.	24.1.2020	one Day Seminar on On "Internet of things"	Institute
CAYm1:2018-19			
1.	05.02.2019	A one-Day Workshop on "PCB Designing"	Institute
2.	28.01.2019	one Day Seminar on "Basics of Electronics"	Institute
3.	16.03.2019	A Guest Lecture on "Wireless Communication"	Institute
4.	05.01.2019	A one-Day Workshop on "Embedded Systems"	Institute
5.	05.09.2018	A Guest Lecture On "Latest Trends in Communication	Institute
CAYm2:2017-18			
1.	27.12.2017	one Day Seminar on "Basics of Electronics Devices"	Institute
2.	17.01.2018	A Guest Lecture on "Android & its applications"	Institute
3.	12.2.2018	A one-Day Workshop on "Components Identification and Testing"	Institute

4.7.2 Publication of technical magazines, newsletters, etc. (05)

A. Quality & Relevance of the contents and Print Material

Newsletters:

S. No	Name of the Newsletter	Editors	Publication details
2018-19			

1	OPTRON – Annual News Letter	Chief Editor:	Mr.P.KATHIRAVAN HOD/ECE	Volume 4 April 2019
		Editor:	Faculty Members & Students of Associations of ECE	
2017-2018				
2.	OPTRON – Annual News Letter	Chief Editor:	Mr.P.KATHIRAVAN HOD/ECE	Volume 3 April 2018
		Editor:	Faculty Members & Students of Associations of ECE	
2016-2017				
3.	OPTRON – Annual News Letter	Chief Editor:	Mr.P.KATHIRAVAN HOD/ECE	Volume 2 May 2017
		Editor:	Faculty Members & Students of Associations of ECE	
2015-2016				
4.	OPTRON – Annual News Letter	Chief Editor:	Mr.P.KATHIRAVAN HOD/ECE	Volume 1 May 2016
		Editor:	Faculty Members & Students of Associations of EEE	

4.7.3 Participation in inter-institute / state/national events by students of the program of study (05)
(The Department shall provide a table indicating participation, award, and recognition.)

A. Events

S. No.	Academic year	No. of students Participated (Co-Curricular)	No. of students Participated (Extra Curricular)
1.	2019-20	20	23
2.	2018-19	12	22
3.	2017-18	10	20

B. Prizes/awards received in such events:

S. No.	Academic year	No. of students Awarded (Co-Curricular)	No. of students Awarded (Extra Curricular)
1.	2019-20	4	19

2.	2018-19	0	14
3.	2017-18	0	16

Co-curricular & Extra Curricular Activities

Co-curricular

S. No.	Name of the Student	Event Description	Event Level (Inter- institute / State/National)	College Name	Awards
CAY :2019-2020					
1.	M.Krishnaveni	Two-day workshop	National	PA College of Engineering and Technology,Pollachi	Participated
2.	D.Bhavathatharani	Two-day workshop	National	PA College of Engineering and Technology,Pollachi	Participated
3.	A.Banu Priya	Paper presentation	National	CIT sandwich polytechnic college, Coimbatore	Participated
4.	M.MohamedNishath	Paper presentation	State	Sri Ramakrishna Polytechnic College, Coimbatore	Participated
5.	S.Rohit	Paper presentation	National	Sri Ramakrishna Polytechnic College, Coimbatore	Participated
6.	R.Kalyan	Quiz competition	National	CIT sandwich polytechnic college, Coimbatore	Participated
7.	N.J.Kishoor	Quiz competition	National	CIT sandwich polytechnic college, Coimbatore	Participated
8.	M.Krishnaveni	Paper presentation	State	Sri Ramakrishna Polytechnic College, Coimbatore	Participated
9.	D.Bhavathatharani	Paper presentation	State	Sri Ramakrishna Polytechnic College, Coimbatore	Participated
10.	A.Banu Priya	Quiz competition	State	CIT sandwich polytechnic college, Coimbatore	Participated
11.	A.Banu Priya	Paper presentation	State	CIT sandwich polytechnic college, Coimbatore	Participated

12.	K.Sakthi Krishnan	Paper presentation	State	Sri Ramakrishna Polytechnic College, Coimbatore	Participated
13.	A.Sowmiya	Project Exhibition	Inter-Institute	PA College of Engineering and Technology, Pollachi	Participated
14.	N.J.Kishoor	Foco challenge in National Level Project Contest	National	PA College of Engineering and Technology, Pollachi	I Prize
15.	R.Kalyan	Foco challenge in National Level Project Contest	National	PA College of Engineering and Technology, Pollachi	I Prize
16.	N.J.Kishoor	Project Exhibition	Inter-Institute	PA College of Engineering and Technology, Pollachi	II Prize
17.	D.Vishnu	Project Exhibition	Inter-Institute	PA College of Engineering and Technology, Pollachi	II Prize
18.	R.Kalyan	Paper presentation	National	CIT sandwich polytechnic college, Coimbatore	Participated
19.	N.J.Kishoor	Paper presentation	National	CIT sandwich polytechnic college, Coimbatore	Participated
20.	M.MohamedNishath	Paper presentation	State	Sri Ramakrishna Engineering College, Coimbatore	Participated
CAYm1 (2018-2019)					
1.	M. Mohamed Nishath	Two Days Technical Workshop on ”Firebird V Robot	State	Nachimuthu Polytechnic College, Pollachi	Participated
2.	K.Sakthi Krishnan	Two Days Technical Workshop on	State	Nachimuthu Polytechnic College, Pollachi	Participated

		”Firebird V Robot			
3.	B.Abishek	Paper presentation	State	Kongu Polytechnic College, Perundurai	Participated
4.	S.Suresh Kumar	Paper presentation	State	Kongu Polytechnic College, Perundurai	Participated
5.	S.Suresh Kumar	Project Exbitation	State	PA College of Engineering and Technology, Pollachi	Participated
6.	B.Abishek	Project Exbitation	State	PA College of Engineering and Technology, Pollachi	Participated
7.	V.Sasivarnam	One day seminar	State	APA Polytechnic College, Palani	Participated
8.	M.Krishnaveni	One-day Workshop	State	Sri Ramakrishna polytechnic college, Coimbatore	Participated
9.	U.Ishwaraya	One-day workshop	State	PA College of Engineering and Technology, Pollachi	Participated
10.	S.Suresh Kumar	One-day workshop	State	PA College of Engineering and Technology, Pollachi	Participated
11.	A.Jamuna	Quiz competition	State	Arulmurugan Polytechnic college, Karur	Participated
12.	D.Bhavathatharani	Quiz competition	State	Sri Ranganathar Institute of Polytechnic College, Coimbatore	Participated
CAYm2 (2017-2018)					
1.	S. Loganayaki	One-day Seminar	State	PA College of Engineering and Technology, Pollachi	Participated
2.	K.Aravinthkumar	One-day Seminar	State	PA College of Engineering and Technology, Pollachi	Participated

3.	S.Suresh Kumar	Two days workshop	State	Nachimuthu polytechnic college, Pollachi	Participated
4.	B.Abishek	Two days workshop	State	Nachimuthu polytechnic college, Pollachi	Participated
5.	M. Mohaidheen Fathima	Paper presentation	State	Ramakrishna Mission Vidhyala Polytechnic College, Coimbatore	Participated
6.	B.Befrin Augsta	Paper presentation	State	Ramakrishna Mission Vidhyala Polytechnic College, Coimbatore	Participated
7.	K.Nandhini	Quiz competition	State	Nachimuthu polytechnic college, Pollachi	Participated
8.	K.Suganya	Quiz competition	State	Nachimuthu Polytechnic college, Pollachi	Participated
9.	M. Mohaidheen Fathima	Project Exhibition	Inter-Institute	PA College of Engineering and Technology, Pollachi	Participated
10.	B.Befrin Augsta	Project Exhibition	Inter-Institute	PA College of Engineering and Technology, Pollachi	Participated

Extra -curricular Activities:

S. No.	Name of the Student	Event Description	Event Level (State/National)	College Name	Awards
CAY: (2019-2020)					
1.	M.Rubina Begam	Rangoli	Intra polytechnic	P.A. Polytechnic College, Pollachi	I prize
2.	S.Sivabharathi	Rangoli	Intra polytechnic	P.A. Polytechnic College, Pollachi	I prize
3.	P.R.Kalyan	Running	Intra	P.A. Polytechnic	II prize

			polytechnic	College, Pollachi	
4.	M.Krishnaveni	Tamil Poetry	Intra polytechnic	P.A. Polytechnic College, Pollachi	I prize
5.	D.Bhavatharani	Tamil Poetry	Intra polytechnic	P.A. Polytechnic College, Pollachi	III prize
6.	N.Pavithara	English speech	Intra polytechnic	P.A. Polytechnic College, Pollachi	II prize
7.	S.Sivabharathi	Tamil speech	Womens development Cell	PA Institutions, Pollachi	II prize
8.	M.Krishnaveni	Mehandi	Intra polytechnic	P.A. Polytechnic College, Pollachi	I prize
9.	D.Bhavatharani	Mehandi	Intra polytechnic	P.A. Polytechnic College, Pollachi	I prize
10.	A.Sabareeswari	Mehandi	Intra polytechnic	P.A. Polytechnic College, Pollachi	III prize
11.	M.Divya	Mehandi	Intra polytechnic	P.A. Polytechnic College, Pollachi	III prize
12.	N.Pavithara	English speech	Womens development Cell	PA Institutions, Pollachi	II prize
13.	S.Sivabharathi	Tamil speech	Womens development Cell	PA Institutions, Pollachi	III prize
14.	A.Banu Priya	Mehandi	Womens development Cell	PA Institutions, Pollachi	I prize
15.	V.Kavitha	Mehandi	Womens development Cell	PA Institutions, Pollachi	I prize
16.	M.Krishnaveni	Javelin Throw	Intra polytechnic	P.A. Polytechnic College, Pollachi	II prize
17.	M Krishnaveni	Discus	Intra polytechnic	P.A. Polytechnic College, Pollachi	I prize
18.	P.R.Kalyan	Quiz	Intra polytechnic	P.A. Polytechnic College, Pollachi	II prize
19.	N.J.Kishoor	Quiz	Intra polytechnic	P.A. Polytechnic College, Pollachi	II prize

20.	M.Krishnaveni	NSS Camp	-	Government Elementary School, Kalipalayam Village, Negamam , Pollachi	Participated
21.	D.Bhavatharani	NSS Camp	-	Government Elementary School, Kalipalayam Village, Negamam , Pollachi	Participated
22.	A.Banu Priya	NSS Camp	-	Government Elementary School, Kalipalayam Village, Negamam , Pollachi	Participated
23.	V.Kavitha	NSS Camp	-	Government Elementary School, Kalipalayam Village, Negamam , Pollachi	Participated
CAYm1 (2018-2019)					
1.	M Krishnaveni	Shotput	Intra polytechnic	P.A. Polytechnic College, Pollachi	Participated
2.	P.R.Kalyan	Long Jump	Intra polytechnic	P.A. Polytechnic College, Pollachi	II prize
3.	S.Anusuya	Inter polytechnic Athletic meet	Divisional	APA Polytechnic College, Palani	Participated
4.	N.Sasivarnam	Inter polytechnic Athletic meet	Divisional	APA Polytechnic College, Palani	Participated
5.	V.Sasivarnam	Rangoli	Intra polytechnic	P.A. Polytechnic College, Pollachi	I prize
6.	R.Paravathavarthini	Rangoli	Intra polytechnic	P.A. Polytechnic College, Pollachi	I prize
7.	M.Naheswari	Nail Art	Intra polytechnic	P.A. Polytechnic College, Pollachi	I prize
8.	M.Bharathi	Nail Art	Intra polytechnic	P.A. Polytechnic College, Pollachi	II prize
9.	M.Hemalatha	Nail Art	Intra polytechnic	P.A. Polytechnic College, Pollachi	II prize

10.	V.Deepa	Tamil Elocution	Womens development Cell	PA Institutions, Pollachi	II prize
11.	M.Krishnaveni	English Elocution	Womens development Cell	PA Institutions, Pollachi	II prize
12.	M.Krishnaveni	Poster Painting	Womens development Cell	PA Institutions, Pollachi	I prize
13.	M.Krishnaveni	Food Mela	Womens development Cell	PA Institutions, Pollachi	II prize
14.	D.Bhavathatharani	Food Mela	Womens development Cell	PA Institutions, Pollachi	II prize
15.	M.Sumithra	Mehandi	Womens development Cell	PA Institutions, Pollachi	II prize
16.	M.Sathya	Mehandi	Womens development Cell	PA Institutions, Pollachi	II prize
17.	V.Sasivarnam	Rangoli	Navarathri Festival 2018	NGM Arts And Science College, Pollachi	I prize
19.	V.Sasivarnam	NSS Camp	-	White wash in temples, Kalipalayam Village, Negamam , Pollachi	Participated
20.	R.Paravathavarthini	NSS Camp	-	White wash in temples, Kalipalayam Village, Negamam , Pollachi	Participated
21.	M.Sumithra	NSS Camp	-	White wash in temples , Kalipalayam Village, Negamam , Pollachi	Participated
22.	M.Sathya	NSS Camp	-	White wash in temples, Kalipalayam Village, Negamam , Pollachi	Participated
CAYm2 (2017-2018)					
1.	S.Gopala Krishnan K	Volley ball	Divisional	Inter Polytechnic College Athletics Association, Directorate Of Technical Education,	III prize

				Chennai	
2.	K.Gurupranav	Volley ball	Divisional	Inter Polytechnic College Athletics Association, Directorate Of Technical Education, Chennai	III prize
3.	B.Befrin Augsta	Tamil Essay Writing	Intra polytechnic	P.A. Polytechnic College, Pollachi	II prize
4.	B.Befrin Augsta	Drawing	Intra polytechnic	P.A. Polytechnic College, Pollachi	III prize
5.	K.Suganya(Third Year)	Drawing	Intra polytechnic	P.A. Polytechnic College, Pollachi	I prize
6.	M. MohaidheenFathima	English Essay Writing	Intra polytechnic	P.A. Polytechnic College, Pollachi	I prize
7.	B.Befrin Augsta	Poster painting	Womens development cell	PA institutions, Pollachi	II prize
8.	S.Rahema Begam	Nail art	Womens development cell	PA institutions , Pollachi	II prize
9.	S.Rahema Begam	Mehandi hand art	Womens development cell	PA institutions, Pollachi	II prize
10.	B.Befrin Augsta	Mehandi hand art	Womens development cell	PA institutions, Pollachi	I prize
11.	M.Krishnaveni	Craftwork	Womens development cell	PA institutions, Pollachi	II prize
12.	C.Sasikala	Craftwork	Womens development cell	PA institutions, Pollachi	II prize
13.	S.Suresh Kumar	English Essay Writing	Intra polytechnic	P.A. Polytechnic College, Pollachi	III prize
14.	M. Mohaidheen Fathima	Tamil and English Speech	Womens development cell	PA institutions, Pollachi	I prize

15.	V.Sasivarnam	Rangoli	Navarathri Festival 2017	NGM Arts And Science College, Pollachi	I prize
16.	R.Paravathavarthini	Rangoli	Navarathri Festival 2017	NGM Arts And Science College, Pollachi	I prize
17.	K.Nandhini	NSS Camp	-	AIDS Awareness Program, Kalipalayam Village, Negamam , Pollachi	Participated
18.	B.Gomatheeswari	NSS Camp	-	AIDS Awareness Program, , Kalipalayam Village, Negamam , Pollachi	Participated
19.	A.Aarthi	NSS Camp	-	AIDS Awareness Program, , Kalipalayam Village, Negamam , Pollachi	Participated
20.	R.Paravathavarthini	NSS Camp	-	AIDS Awareness Program, Kalipalayam Village, Negamam ,Pollachi	Participated

CRITERION 5	FACULTY INFORMATION AND CONTRIBUTION	150

5. FACULTY INFORMATION:

2019-2020

Name of the Faculty	Qualification	University and Year of Graduation		Designation and Date of the joining the institution		Distribution of Teaching Load (%)			Academic Research		Years of experience	Nature of Association (Regular/Contract)	Date of leaving
						a	b	c	Research Paper Publications	Faculty receiving M.Tech/Ph.D during the assessment year			
P.KATHIRAVAN	M.E. (VLSI DESIGN)	KARPAGAM UNIVERSITY	2014	HoD	01/06/2007	100.00		0.00	-	-	19 years 4 months	R	-
A.AMUTHA	B.E. (ECE)	MADURAI KAMARAJAR UNIVERSITY	2007	Sr.LECTURER	20/05/2011	0.00		100.00	-	-	9 years 4 months	R	-
S.MAHALINGAM	B.E. (ECE)	ANNA UNIVERSITY	2009	Sr.LECTURER	16/05/2011	100.00		0.00	-	-	9 years 5 months	R	-
S.KAVITHA	M.E. (VLSI DESIGN)	ANNA UNIVERSITY	2019	Sr.LECTURER	16/05/2011	100.00		0.00	-	M.E.	9 years 5 months	R	-

S.PRIYATHARSINI	M.E. (VLSI DESIGN)	ANNA UNIVERSITY	2019	Sr.LECTURER	21/11/2011	85.19		14.81	-	M.E.	8 years 10 months	R	-
R.GOWRI	B.E. (ECE)	ANNA UNIVERSITY	2011	Sr.LECTURER	24/05/2013	61.54		38.46	-	-	7 years 4 months	R	-
R.KARUPPUSAMY	B.E. (ECE)	ANNA UNIVERSITY	2014	LECTURER	02/06/2017	0.00		100.00	-	-	7 years 4 months	R	-
A.DEVI	M.Sc., M.Phil. (PHYSICS)	BHARATHIDASAN UNIVERSITY	2004	Sr.LECTURER	05/06/2006	50.00		50.00	-	-	14 years 2 months	R	-
N.DHAMAYANTHI	M.Sc. (MATHS)	BHARATHIAR UNIVERSITY	2010	Sr.LECTURER	08/06/2011	65.00		35.00	-	-	9 years 2 months	R	-
D.BINNI JENIFER	M.A.,B.Ed. (ENGLISH)	BHARATHIAR UNIVERSITY,TAMILNADU TEACH EDUCATION	2014	LECTURER	01/06/2016	29.41		70.59	-	-	4 years 3 months	R	30/05/2020
SERVICE STAFF													
K.GNANAPRAKASH	B.E. (AUTO)	ANNA UNIVERSITY	2018	LECTURER	06/06/2019		26.83	73.17	-	-	1 year	R	
M.SIVAKUMAR	M.E. (CSE)	ANNA UNIVERSITY	2019	Sr.LECTURER	15/05/2013		11.43	88.57	-	M.E.	9 years 3 months	R	-
N.MATHIVANAN	M.E., (CSE)	KARPAGAM UNIVERSITY	2014	HoD	01/06/2010		19.35	80.65	-	-	10 years 3 months	R	-
I -YEAR ENGG													

N.PARIMALA	M.A. (ENGLISH)	BHARATHIAR UNIVERSITY	1991	LECTURER	01/06/2016		11.76	88.24	-	-	11 years	R	-
N.KAVITHA	M.Sc. (CHEMISTRY)	BHARATHIAR UNIVERSITY	2003	Sr.LECTURER	06/07/2006		50.00	50.00	-	-	14 years 2 months	R	-
M.BHARATHI	M.Sc. (MATHS)	BHARATHIAR UNIVERSITY	2012	Sr.LECTURER	01/06/2012		20.83	79.17	-	-	8 years 2 months	R	-

2018-2019

Name of the Faculty	Qualification	University and Year of Graduation		Designation and Date of the joining the institution		Distribution of Teaching Load (%)			Academic Research		Years of experience	Nature of Association (Regular/Contract)	Date of leaving
						a	b	C	Research Paper Publications	Faculty receiving M.Tech/Ph.D during the assessment year			
P.KATHIRAVAN	M.E. (VLSI DESIGN)	KARPAGAM UNIVERSITY	2014	HoD	01/06/2007	100.00		0.00	-	-	19 years 4 months	R	-
A.AMUTHA	B.E. (ECE)	MADURAI KAMARAJAR UNIVERSITY	2007	Sr.LECTURER	20/05/2017	0.00		100.00	-	-	8 years 5 months	R	

S.MAHALINGAM	B.E. (ECE)	ANNA UNIVERSITY	2009	Sr.LECTURER	16/05/2011	64.29		35.71	-	-	8 years 5 months	R	-
S.KAVITHA	B.E. (ECE)	ANNA UNIVERSITY	2009	Sr.LECTURER	16/05/2011	100.00		0.00	-	-	8 years 5 months	R	-
S.PRIYATHARSINI	B.E. (ECE)	ANNA UNIVERSITY	2011	Sr.LECTURER	21/11/2011	84.85		15.15	-	-	7 years 10 months	R	-
R.GOWRI	B.E. (ECE)	ANNA UNIVERSITY	2011	Sr.LECTURER	24/05/2013	87.10		12.90	-	-	6 years 4 months	R	-
R.KARUPPUSAMY	B.E. (ECE)	ANNA UNIVERSITY	2014	LECTURER	02/06/2017	59.46		40.54	-	-	2 years 4 months	R	-
A.DEVI	M.Sc., M.Phil. (PHYSICS)	BHARATHIDASAN UNIVERSITY	2004	Sr.LECTURER	27/07/2006	0.00		100.00	-	-	13 years 2 months	R	-
N.DHAMAYANTHI	M.Sc. (MATHS)	BHARATHIAR UNIVERSITY	2010	Sr.LECTURER	08/06/2011	72.22		27.78	-	-	8 years 2 months	R	-
D.BINNI JENIFER	M.A., B.Ed. (ENGLISH)	BHARATHIAR UNIVERSITY, TAMILNADU TEACH EDUCATION	2014	LECTURER	01/06/2016	35.00		65.00	-	-	3 years 3 months	R	30 /05/2020
SERVICE STAFF													
J.SANTHOSH	M.E. (CSE)	KARPAGAM UNIVERSITY	2014	Sr.LECTURER	01/06/2017		26.32	73.68	-	-	9 years	R	-
A.NARENDRAKUMAR	B.E. (MECH)	ANNA UNIVERSITY	2012	LECTURER	01/06/2012		12.20	87.80	-	-	7 years 4 months	R	12/03/2020

M.DINESH KUMAR	B.E. (CIVIL)	ANNA UNIVERSITY	2013	LECTURER	01/06/2017		27.03	72.97	-	-	3 years	R	02/07/2018
S.PRAKASH	B.E. (MECH)	KARPAGAM UNIVERSITY	2012	Sr.LECTURER	10/12/2012		6.67	93.33	-	-	6 years 11 months	R	-
I -YEAR ENGG													
M.VAITHEESWARI	M.A., B.Ed. (ENGLISH)	BHARATHIAR UNIVERSITY, TAMILNADU TEACH EDUCATION	2014	LECTURER	01/06/2016		11.11	88.89	-	-	3 years	R	-
G.SARASWATHI	M.Sc. (PHYSICS)	BHARATHIAR UNIVERSITY	2015	LECTURER	02/06/2017		46.67	53.33	-	-	3 years	R	08/06/2020
N.KAVITHA	M.Sc. (CHEMISTRY)	BHARATHIAR UNIVERSITY	2003	Sr.LECTURER	06/07/2006		50.00	50.00	-	-	13 years 2 months	R	-
M.BHARATHI	M.Sc. (MATHS)	BHARATHIAR UNIVERSITY	2012	LECTURER	01/06/2012		27.78	72.22	-	-	7 years 2 months	R	-

2017-2018

Name of the Faculty	Qualification	University and Year of Graduation		Designation and Date of the joining the institution		Distribution of Teaching Load (%)			Academic Research		Years of experience	Nature of Association (Regular/Contract)	Date of leaving
						A	b	c	Research paper publications	Faculty receiving M.Tech/Ph.D during the assessment year			
P.KATHIRAVAN	M.E. (VLSI DESIGN)	KARPAGAM UNIVERSITY	2014	HoD	01/06/2007	100.00		0.00	-	-	17 years 4 months	R	-
A.AMUTHA	B.E. (ECE)	MADURAI KAMARAJAR UNIVERSITY	2007	Sr.LECTURER	20/05/2017	62.86		37.14	-	-	7 years 5 months	R	-
S.MAHALINGAM	B.E. (ECE)	ANNA UNIVERSITY	2009	Sr.LECTURER	16/05/2011	64.71		35.29	-	-	7 years 5 months	R	-
S.KAVITHA	B.E. (ECE)	ANNA UNIVERSITY	2009	Sr.LECTURER	16/05/2011	100.00		0.00	-	-	7 years 5 months	R	-
S.PRIYATHARSINI	B.E. (ECE)	ANNA UNIVERSITY	2011	Sr.LECTURER	21/11/2011	31.25		68.75	-	-	6 years 10 months	R	-
R.GOWRI	B.E. (ECE)	ANNA UNIVERSITY	2011	LECTURER	24/05/2013	57.14		42.86	-	-	5 years 4 months	R	-

R.KARUPPUSAMY	B.E. (ECE)	ANNA UNIVERSITY	2014	LECTURER	02/06/2017	0.00		100.00	-	-	1 year 4 months	R	-
A.DEVI	M.Sc.,M.Phil. (PHYSICS)	BHARATHIDASAN UNIVERSITY	2004	Sr.LECTURER	05/06/2006	50.00		50.00	-	-	12 years 5 months	R	-
N.DHAMAYANTHI	M.Sc. (MATHS)	BHARATHIAR UNIVERSITY	2010	Sr.LECTURER	08/06/2011	0.00		0.00	-	-	7 years 2 months	R	-
D.BINNI JENIFER	M.A.,B.Ed. (ENGLISH)	BHARATHIAR UNIVERSITY, TAMILNADU TEACH EDUCATION	2014	LECTURER	01/06/2016	31.25		68.75	-	-	2 years	R	30/05/2020
SERVICE STAFF													
J.SANTHOSH	M.E. (CSE)	KARPAGAM UNIVERSITY	2014	Sr.LECTURER	29/05/2017		33.33	66.67	-	-	8 years	R	-
R.VENKATRAMAN	B.E.	ANNA UNIVERSITY	2012	LECTURER	12/09/2012		17.14	82.86	-	-	6 years	R	-
R.VIGNESH KARTHIK	B.E. (MECH)	ANNA UNIVERSITY	2017	LECTURER	01/06/2017		15.63	84.38	-	-	1 year 3 months	R	-
I -YEAR ENGG													
M.VAITHEESWARI	M.A.,B.Ed. (ENGLISH)	TAMILNADU TEACH EDUCATION	2014	LECTURER	01/06/2016		12.50	87.50	1	-	2 years	R	-
A.DIVYA	M.A. (ENGLISH)	BHARATHIAR UNIVERSITY	2017	LECTURER	05/06/2017		12.50	87.50	-	-	1 year	R	30/04 /2018
S.RAKINI	M.Sc. (MATHS)	BHARATHIAR UNIVERSITY	2010	LECTURER	08/06/2011		48.15	51.85	-	-	7 years 3 months	R	-

S.RANI	M.Sc., M.Phil. (BIO-(CHEMISTRY)	BHARATHIAR UNIVERSITY	2006	LECTURER	03/05/2013		50.00	50.00	-	-	5 years 5 months	R	-
M.BHARATHI	M.Sc. (MATHS)	BHARATHIAR UNIVERSITY	2012	LECTURER	01/06/2012		18.52	81.48	-	-	6 years 2 months	R	-

Student-Faculty Ratio (SFR)(25)

Year	N	F	SFR=N/F
2019 – 2020	183	7.31	25.03
2018 – 2019	182	8.10	22.47
2017 – 2018	182	7.06	25.78
Average SFR for three assessment years			**24.43**

Provide the information about the regular and contractual faculty as per the format mentioned below.

Year	Total number of regular faculty in the department	Total number of contractual faculty in the department
2019 – 2020	24	0
2018 – 2019	23	0
2017 – 2018	24	0

Faculty Qualification (25)

Faculty Qualification Index (20)

Year	X	Y	F	FQ=2.0 x [(10X +7Y)/F)]
2019 – 2020	6	18	7.00	53.14
2018 – 2019	6	17	7.00	51.14
2017 – 2018	6	18	7.00	53.14
			Average Assessments	**52.48**

A.vailability of Faculty/principal of that discipline with PhD. Qualification (05)

NIL

Faculty Retention (20)

Description	2018 – 2019(CAY m1)	2019 – 2020 (CAY)
No.of faculty retained	23	23
Total No of Faculty	24	24
% of Faculty Retained	96	96

Faculty as participants in Faculty development/training activities conducted by other organization (30)

Name of the Faculty	CAY*m2* (2017-18)	CAYm1 (2018-19)	CAY (2019-20)
A.AMUTHA	1	2	2
A.DEVI	1	1	2
A.DIVYA	1	0	0
A.NARENDRAKUMAR	1	1	1
D.BINNIJENIFER	0	1	1
G.SARASWATHI	1	1	2
J.SANTHOSH	3	3	5
K.GNANAPRAKASH	0	0	1
M.BHARATHI	1	1	2
M.DINESH KUMAR	0	1	0
M.SIVAKUMAR	2	3	5
M.VAITHEESWARI	1	1	2
N.DHAMAYANTHI	1	1	1
N.KAVITHA	1	2	1
N.MATHIVANAN	3	2	5

N.PARIMALA	0	2	1
P.KATHIRAVAN	5	2	3
R.GOWRI	2	2	3
R.KARUPPUSAMY	2	3	3
R.VENKATRAMAN	1	1	5
R.VIGNESH KARTHICK	1	1	1
S.KAVITHA	2	3	1
S.MAHALINGAM	5	2	2
S.PRAKASH	1	2	1
S.PRIYATHARSINI	2	5	1
S.RAKINI	2	1	1
S.RANI	0	1	2
Sum	40.00	45.00	54.00
***RF*= Number of Faculty required to comply with 25:1 Student Faculty ratio as per 5.1**	7.28	7.28	7.32
Assessment = 6 × (Sum/0.5RF) (Marks limited to 30)	30.00	30.00	30.00
Average assessment over three years (Marks limited to 30)	**30.00**		

5.4. a. Organized/ Conducted FDPs and STTP by this department at State / National Level (12)

S. No	Academic year	Total no. of programmes conducted
1	2019-2020	3
2	2018-2019	3
3	2017-2018	2

CONDUCTED FDPs/STTP:

S. No.	Name Of The Event	Date/ Month/ Year	Topic of the Guest Lecturer	Resource Person with designation
2019-2020				
1.	STTP	10.06.2019 TO 15.06.2019	VLSI DESIGN & SIMULATION	Mr.sridhar prabhu, Allzone system, Coimbatore.

2.	FDP	25.11.2019 TO 29.11.2019	INTERNET OF THINGS (IoT)	Ms.S.Sangeetha, Junior testing engineer, Tri Phase Technologies, Bangalore.
3.	FDP	13.01.2020 TO 18.01.2020	ADVANCES IN ELECTRONIC DEVICES	Mr.Rijo George, Project Manager, Emglitz Technologies, Coimbatore.
2018-2019				
1.	FDP	04.06.2018 TO 09.06.2018	RECENT TRENDS IN COMMUNICATION & WIRELESS NETWORKS	Mr.T.Senthil, Junior Telecom Officer 3G Core Network,BSNL. Coimbatore
2.	FDP	03.12.2018 TO 07.12.2018	PCB DESIGN AND FABRICATION	Mr.Rijo George, Project Manager, Emglitz Technologies, Coimbatore.
3.	STTP	14.01.2019 TO 19.01.2019	ARDUINO PROCESSOR	Mr.sridhar prabhu, Allzone system, Coimbatore.

2017-2018				
1.	FDP	29.05.2017 TO 02.06.2017	WIRELESS SENSOR NETWORKS	S.Gunasekar, System engineer, Sipcot information technology park, Chennai
2.	FDP	27.11.2017 TO 01.12.2017	'C' LANGUAGE BASICS	Mr. M.Manikandan, Tesolve semiconductors limited, coimbatore

Product development, Consultancy, Manufacturing contracts, testing contracts (8)

CONSULTANCY PROJECTS:

Sl.No	Academic year	Project Title	Funding agencies	Duration	Budget
1.	2018-2019	AUTOMATIC CABLE HARNESS TESTING SYSTEM	Allzone system, Coimbatore.	2 Months	**13,000.00**

2.	2019-2020	IoT BASED LIVE BOREWELL RIG MONITORING SYSTEM	Allzone system, Coimbatore.	3 Months	**18,000.00**

Faculty Performance Appraisal and Development System (FPADS) (30)

A. A well-defined FPADS instituted for all the assessment years (05)

The assessment is based on:

- A well-defined system for faculty appraisal for all the assessment years.

The Department makes use of the following form for evaluating the performance of faculty.

P. A.POLYTECHNIC COLLEGE

(Approved by AICTE and Affiliated to Directorate Of Technical Education)
Pollachi-642 002.

FACULTY SELF APPRAISAL FORM

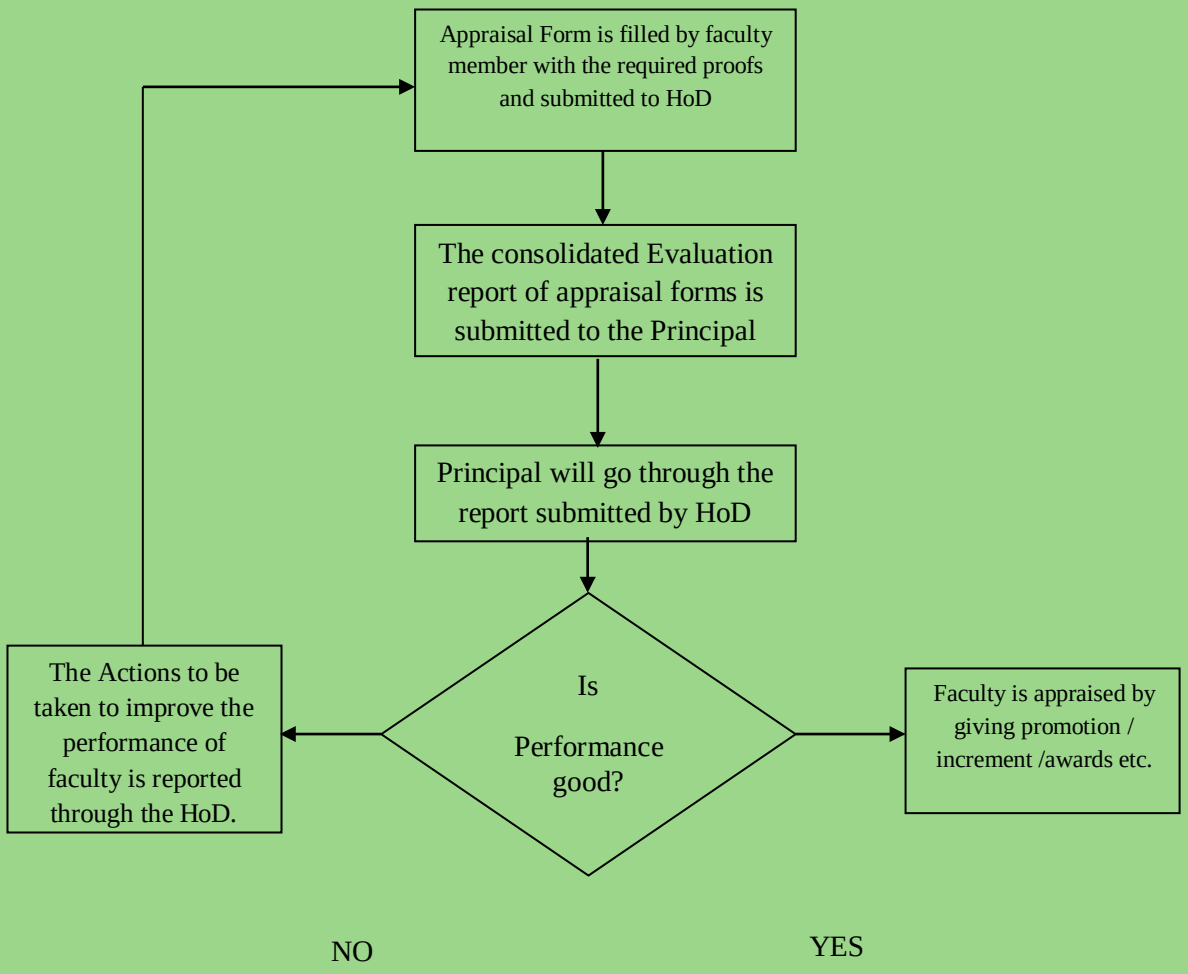
1. Technical papers published in journals/conferences(national international level) (03 points)
2. Achievements (Project sanctions, prizes and Awards) (03 points)
3. Seminars/workshops/STTP/FDP/Conferences/Industrial Training etc. attended/conducted (02 Points)
4. Value added courses Conducted (02 Points)
5. Books/Notes Published (02 Points)
6. Subject(Theory)Handled and Board Exam Results (04 Points)
7. Contribution to the Institute other than Academic activities (02 Points)
8. Any other Achievements/Information (02 Points)

(Total 20 Points)

** Kindly add separate sheets if necessary

Signature of the Staff HoD Principal

B. Its implementation and effectiveness (15)



The innovations and self updating skills of the faculty members are evaluated through the appraisal form shown above. To fulfill all the fixations in the appraisal form faculty member required to do the following:

- Need to publish more papers in refereed/ Journals in their specialization.
- Need to Conduct / attend more number of Seminars/workshops /STTP/FDP/ Conferences/Industrial Training
- Publish Books / Notes
- Better Performance in academics
- Get sanctions from various funding agencies for Research / Seminars.

The above said activities will indirectly stimulate the skills of faculty members. This will also enrich the knowledge of students to become competitive in the modern world.

CONFERENCE:

S.No.	NAME OF THE FACULTY WITH DESIGNATION	DATE	PROGRAM	TITLE	NAME OF THE INSTITUTION
1	S.KAVITHA / LECTURER	09.03.2019	INTERNATIONAL CONFERENCE	Design Of An Efficient FIR Filter Using Distributed Arithmetic Algorithm	KATHIR COLLEGE OF ENGINEERING, COIMBATORE
2	S.PRIYATHARSINI / LECTURER	09.03.2019	INTERNATIONAL CONFERENCE	Design Of Faster And Lowpower Approximate Multiplier	KATHIR COLLEGE OF ENGINEERING, COIMBATORE

C. Details of qualification up-gradation of faculty (10)

S.No.	NAME OF THE FACULTY WITH DESIGNATION	DEPARTMENT	DEGREE	YEAR OF JOINING	YEAR OF COMPLETION	NAME OF THE COLLEGE /UNIVERSITY
1	S.KAVITHA / LECTURER	ECE	M.E. (VLSI DESIGN)	2016	2019	P.A COLLEGE OF ENGINEERING AND TECHNOLOGY, POLLACHI./ANNA UNIVERSITY,CHENNAI.
2	S.PRIYATHARSINI /LECTURER	ECE	M.E. (VLSI DESIGN)	2016	2019	P.A COLLEGE OF ENGINEERING AND TECHNOLOGY, POLLACHI./ANNA UNIVERSITY,CHENNAI.
3	M.SIVAKUMAR /LECTURER	CSE	M.E. (CSE)	2016	2019	P.A COLLEGE OF ENGINEERING AND TECHNOLOGY, POLLACHI./ANNA UNIVERSITY,CHENNAI.

CRITERION 6	FACILITIES AND TECHNICAL SUPPORT	100

6.1. Availability of adequate, well-equipped classrooms to meet the curriculum requirements (10)

ROOM DESCRIPTION	CLASS ROOM NUMBER	USAGE	SHARED/ EXCLUSIVE	CAPACITY (SQ.M)	(REQUIRED) ADEQUACY AS PER NORMS	AVAILABLE FACILITIES
Class Room	MB-107	I-ECE	EXCLUSIVE	72 Sq.m	66 Sq.m	Black board, Notice Board, Different Charts, Benches, Fans, Lights, Dustbin.
	MB-206	II-ECE	EXCLUSIVE	72 Sq.m	66 Sq.m	Black board, Notice Board, Different Charts, Benches, Fans, Lights, Dustbin.
	MB-207	III-ECE	EXCLUSIVE	72 Sq.m	66 Sq.m	Black board, Notice Board, Different Charts, Benches, Fans, Lights, Dustbin
Drawing Hall	P2-302	I-ECE	SHARED	156 Sq.m	132 Sq.m	Black board, Notice Board, Different Charts, Benches, Fans, Lights, Dustbin.
Smart Class	MB-207	ECE dept.	EXCLUSIVE	72 Sq.m	66 Sq.m	LCD Projector, one computer, LAN Connectivity, Audio system, Smart Board, White board, Notice Board, Different Charts, Chairs, Fans, Lights, Dustbin.
Seminar Hall	P2-001	All dept.	SHARED	150 Sq.m	156 Sq.m	LCD Projector, one computer, LAN Connectivity, Audio system, Smart Board, White board, Notice Board, Different Charts, Chairs, Fans, Lights, Dustbin.
Auditorium	Auditorium	All dept.	SHARED	842 Sq.m	842 Sq.m	One computer, LAN Connectivity, Audio system, Air Conditioner, White board, Teapoy, Chairs, Fans, Lights, Dustbin.

6.2. Availability of adequate and well-equipped workshops, Laboratories and Technical manpower to meet the curriculum requirements (40)

A) Adequacy of Laboratory (10)

- **All Laboratories are furnished with efficient equipments for students to do their practical work during the working hours as per the time table and beyond the working hours according to their own interest.**
- **All experiments prescribed in curriculum Dote are conducted as per separate Lab schedule and some more experiments apart from syllabus were also taught to the students.**
- **Equipments and Consumables are storing their respective racks for easy accessibility of the faculty, Technician and also students.**
- **All the laboratories are provided with adequate display boards for necessary information to students and sufficient furniture facilities.**

Table 6.2.1 Adequacy of Laboratory

S. NO.	NAME OF THE LABORATORY	NO. OF STUDENTS PER SETUP (BATCH SIZE)	WEEKLY UTILIZATION STATUS (ALL THE COURSES FOR WHICH THE LABORATORY IS UTILIZED)
1	ANALOG DEVICES LABORATORY	33	8 Hours/ week
2	DIGITALELECTRONICS LABORATORY	33	9 Hours/ week
3	COOMUNICATION ENGINEERING LABORATORY	33	9 Hours/ week
4	ELECTRONICS COMPUTER LABORATORY	33	8 Hours/ week
5	COMPUTER APPLICATIONS LABORATORY	33	18 Hours/ week

B) Quality of laboratory (20)

- **Laboratories are given more importance then theoretical class work became the students are doing all the application oriented practical work in Labs.**
- **Every Lab is provided with separate faculty incharge and adequate facilities for the development of complete practical knowledge to the students.**
- **The quality of every laboratory depends on its effective utilization by the students.**
- **Observation notes are also written by the student and the sign of faculty is obtained on the same day itself.**
- **Every practical work is done by the students himself under the guidance of concerned faculty member and the students have to write the record of the work and submit the same on next practical class.**
- **For every Lab, the cleanliness and effectiveness is maintained for the welfare of students to fulfill their satisfied atmosphere.**
- **For that, the safety measures like, water can, first aid boxes, fire extinguisher are maintained periodically, and students are strictly invited to wear shoes and uniform which is monitored scrupulously.**
- **Also the display boards like DO's and DON'T's, List of experiments (Syllabus), specification of every equipment are also displayed for improving awareness of students about every technical experiments.**

C) Technical Manpower support –Eligible and Adequate (10)

Table 6.2.2 Technical Manpower support –Eligible and Adequate

S. NO.	NAME OF THE LABORATORY	NAME OF THE TECHNICAL STAFF	DESIGNATION	QUALIFICATION
1	ANALOG DEVICES LABORATORY	M.Geethabharathi	Lab Technician	DECE
2	DIGITALELECTRONICS LABORATORY	M.Gayathiri	Lab Technician	DECE
3	COOMUNICATION ENGINEERING LABORATORY	V. Suganya	Lab Technician	DECE
4	ELECTRONICS COMPUTER LABORATORY	M.Kasturi	Lab Technician	DECE
5	COMPUTER APPLICATIONS LABORATORY	M.Geethabharathi	Lab Technician	DECE

Table 6.1 Laboratory and Technical Manpower support

S. No.	Name of the Laboratory	No. of students per Setup (Batch Size)	Name of the Important equipment	Weekly utilization status (all the courses for which the laboratory is utilized)	Technical Manpower support		
					Name of the technical Staff	Designation	Qualification
1.	ANALOG DEVICES LABORATORY	33	Function Generator, CRO, Power Supply Units, 2 Computer Systems.	8 Hours/ week	M.Geethabharathi	Lab Technician	DECE
2.	DIGITAL ELECTRONICS LABORATORY	33	Digital Trainer kit, Function generator, CRO, 2 Computer System, 8051 Microcontroller Trainer Kits and other Interfacing system.	9 Hours/ week	M.Gayathiri	Lab Technician	DECE
3.	COMMUNICATION ENGINEERING LABORATORY	33	Function Generator, CRO, Power Supply Units, Modulation and Demodulation Trainer kits, PLC Trainer, Fiber Optic trainer kit, DTH system, Television, 2 Computer System	9 Hours/ week	V.Suganya	Lab Technician	DECE

4.	ELECTRONICS COMPUTER LABORATORY	33	32 No. of Computer systems, Scanner, Laser Printer, Spartan 3E FPGA Trainer Kits and their interfacing system, Xilinx Software, ARM-7 LPC 2148 Universal Trainer kit, IAR Systems software.	18 Hours/ week	M.Kasturi	Lab Technician	DECE
5.	COMPUTER APPLICATIONS LABORATORY	33	32 No. of Computer systems with softwares, Scanner, Laser Printer.	8 Hours/ week	M.Geethabharathi	Lab Technician	DECE

6.3. Additional facilities created for improving the quality of learning experience in laboratories (20)

A) Facilities (10)

Table 6.3.1 Facilities

S.NO.	NAME OF THE FACILITY	YEAR OF ESTABLISHMENT
1	ELECTRONIC SYSTEM DESIGN LABORATORY	2017-2018
2	ARDUINO LABORATORY	2018-2019
3	ELECTRONICS VIRTUAL LABORATORT	2019-2020

B. Effective Utilization (5)

Table 6.3.2 Effective Utilization

S.NO.	NAME OF THE FACILITY	YEAR OF ESTABLISHMENT	EFFECTIVE UTILIZATION
1	ELECTRONIC SYSTEM DESIGN LABORATORY	2017-2018	The project trainer kits of earlier batch students are prescribed and the scope of improvement of that is analyzed. Soldering of trainer kits in PCB's are practically done by students and its performance is verified.
2	ARDUINO LABORATORY	2018-2019	Simple coding using Embedded C is done and working of entire controller circuits is defined and verified.
3	ELECTRONICS VIRTUAL LABORATORT	2019-2020	By using different simulation software tools, basic electronic circuits are designed and their working performance is analyzed.

C. Relevance to POs/PSOs (5)

Table 6.3.3 Relevance to POs/PSOs

S.NO.	NAME OF THE FACILITY	YEAR OF ESTABLISHMENT	RELEVANCE TO PO'S	RELEVANCE TO PSO'S
1	ELECTRONIC SYSTEM DESIGN LABORATORY	2017-2018	1,2,3,6,7	1,2,3
2	ARDUINO LABORATORY	2018-2019	1,2,3,6,7	1,2,3
3	ELECTRONICS VIRTUAL LABORATORY	2019-2020	1,2,3,6,7	1,2,3

Table 6.2 Details of Additional Facilities

S. No	Facility Name	Details	Reason(s) for creating facility	Utilization	Areas in which students are expected to have enhanced learning	Relevance to POs/PSOs
1.	Electronic System Design laboratory	Process control timer, LVDT Trainer kit, Strain Gauge trainer kit, Pressure transducer trainer kit, Thermocouples	To know about the working and usage of process control timer thermocouples to develop innovative projects.	In All Working Days	Electronic Circuits and Different sensors.	POs:1,2,3,6,7 PSOs: 1,2,3
2.	ARDUINO Laboratory	4 No.of computer Systems with Arduino IDE software, 6 no.of arduino uno boards	To learn the new technologies and designing different projects	Project hours	Microcontroller and C-Programming.	POs:1,2,3,6,7 PSOs: 1,2,3
3.	Electronics Virtual Laboratory	10 No. of Computer Systems, Different Open Source Software.	To Know about the different electronics software and design various Electronics and Communicatio n circuits.	Project hours	Basic Electronic Circuits Design tools.	POs:1,2,3,6,7 PSOs: 1,2,3

4	Internet Facility	Internet Facility 100Mbps	Facility to staff and students for enhancing Teaching Learning process using ICT& NPTEL videos & e-Books.	To know about recent trends in science and technology and update the subject Knowledge apart from Curriculum.	Project work, Paper Presentation, Seminar.	POs:1,2,3,6,7 PSOs: 1,2,3
5	WiFi	Available in All Laboratories	Facility to staff and students for enhancing Teaching Learning process using ICT& NPTEL videos & e-Books.	To know about recent trends in science and technology and update the subject Knowledge apart from Curriculum.	Project work, Paper Presentation, Seminar.	

6.4 Laboratories: Maintenance and overall ambiance (10)

- All laboratories are equipped with hardware and software as per the requirement of curriculum and syllabus.
- Periodic service and maintenance are taken care.
- All laboratories are provided with uninterruptible power supply.
- Numbering of personal computers is done for easy maintenance and identification.
- Based on the requirement software and system up gradation will be done.
- In order to keep computers healthy, Antivirus software were installed and virus signature files are updated regularly.
- All laboratories are maintained with IN-OUT entry registers.
- Consumables are purchased for every academic year for smooth conduct of laboratories.
- Consumable issue registers are maintained for easy handling of stock.
- Internal Stock verification is conducted every year and action taken report is prepared.
- Laboratories are available beyond the working hours if necessary.
- All laboratories have good light and ventilation with tubes and fan arrangement.
- Laboratory manuals are prepared and made available to students for reference.
- All the laboratories are displayed with technical informative charts.
- Innovative projects are displayed in laboratories to motivate the students.
- All laboratories are displayed with practical session time tables, list of experiments, list of equipment and safety measures.

6.5. Availability of computing facility in the department (10)

NO. OF COMPUTER TERMINALS	STUDENTS COMPUTER RATIO	DETAILS OF LEGAL SOFTWARE	DETAILS OF NETWORKING	DETAILS OF PRINTERS, SCANNERS ETC.
70	3:1	Multisim14.0, IAR embedded workbench, Xilinx ise 9.2i and turbo c++.	100 Mbps	02- CANON LPB 2900 Laser Printer.

6.6. Language lab (10)

Language lab

- The ability to communicate effectively has become a pre- requisite for anyone ventures into new profession, the need for developing such a skill is a much-felt phenomenon today. Both Governmental and Private institutions focus their attention on students to develop their Communicative Skills. As technology has entered into every aspect of human life, it has extended its advanced products into the field of communication.
- In dote curriculum, life and employability skill practical present in Fourth and Fifth semester.
- It establishes the learning, reading, writing and speaking skills to the students through audio and video systems.
- Students are improving their personality, reading skill through language lab.

A) Facilities

Table 6.6.1 Facilities

ROOM DESCRIPTION	LEGEND NAME	USAGE	SHARED/ EXCLUSIVE	AVAILABLE FACILITIES
Language lab	Communication lab	All Dept.	SHARED	Black board, Notice Board, Different Charts, Benches, Fans, Lights, Dustbin.

Table 6.6.2 Computing facilities

NO. OF COMPUTER TERMINALS	STUDENT COMPUTER RATIO	NO. OF HOURS PER WEEK	BENEFICIARIES
30	1:1	4	Second and Third Year Students

Table 6.6.3 Skills Description

Sr. No	Skill	Resources Available	No. of CD
1	Vocabulary	Speak in English You can K.R. Lakshminarayanan	02
2	Spoken English	Spoken English Easy Dr. Sanjay Sharma	01
3	Spoken English	Spoken English V.Sasi kumar, P.M.Dhamja	01
4	Presentation Skills	B.B.C English follow me units	01

UTILIZATION (Activities Conducted)

The following activities are conducted:

- Listening Practice, Students following passage and answers the questions.
- Extempore Speeches may be given
- Expressions, some polite requests, Voice and Articulation.
- Describing Department, Products etc..,
- Group discussion, dialogues, Job interviews tackling question, general/Manners Etiquette and Mock interview.
- Framing new Questions, Framing new sentences, Preparing Resume.

CRITERION 7	CONTINUOUS IMPROVEMENT	75

7.1. Actions taken based on the results of evaluation of each of the POs and PSOs (25)

A. Documentary evidence of POs and PSOs attainment levels (10)
B. Gaps identified /shortfalls/improvement from continuous improvement perspective (5)
C. Plan of action to bridge the gap and its Implementation (10)

POs &PSOs Attainment Levels and Actions for improvement CAYm1 (2016-2019):

Batch: 2016-2019			
POs	**Target Level**	**Attainment Level**	**Observations**
PO 1: Basic and Discipline specific knowledge: Apply knowledge of basic mathematics, science and engineering fundamentals and engineering specialization to solve the engineering problems.			
PO1	**2.42**	**2.21**	Fundamental Engineering knowledge is considerably achieved in order to apply them in solving complex problems.
Action 1: Videos from various websites relevant to the topics is utilized to enhance the knowledge of the students. **Action 2:** Periodic Assignments is given to assess the performance of students. **Action 3:** Technical programs are arranged for the students to have an insight of the current industrial trends.			
PO 2: Problem analysis: Identify and analyse well defined engineering problems using codified standard methods.			
PO2	**2.07**	**1.89**	Analyzing, modeling, processing and solving the problems are considerably achieved.
Action 1: Problem analytic classes are conducted to improve the problem solving skills. **Action 2:** More focus is given to the students on analyzing various interpretations in lab courses.			
PO 3: Design/development of solutions: Design solutions for well defined technical problems and assist with the design of systems components or processes to meet specified needs.			
PO3	**2.01**	**1.81**	Students acquired necessary skills to design solutions for the engineering problems are considerably achieved.
Action 1: Students are motivated to do assignments and analyze case studies for finding solutions to real time problems. **Action 2:** Students are encouraged to propose innovative ideas and projects for the welfare of society. **Action 3:** Students are encouraged to do mini projects to improve their designing skills.			
PO 4: Engineering Tools, experimentation and testing: Apply Modern open source software tools and appropriate technique to conduct standard tests and measurements			
PO4	**1.88**	**1.74**	Competent usage of modern tool is achieved reasonably. It is observed that up-gradations of tools and resources are necessary to meet the industry standards and research.

<table>
<tr><td colspan="4">Action 1: Modern tools are demonstrated to the students for their enrichments to specify fulfillment of engineering applications in new industrial era.
Action 2: Additional experiments and value added courses are conducted for the students to analyze technical issues.</td></tr>
<tr><td colspan="4">PO 5: Engineering practice for society, sustainability and environment: Apply appropriate technology in context of society, sustainability, environment and ethical practices.</td></tr>
<tr><td>PO5</td><td>1.75</td><td>1.56</td><td>The students’ awareness towards professional engineering practices is moderately achieved.</td></tr>
<tr><td colspan="4">Action 1: Students are motivated to carryout projects which caters to societal needs, health monitoring, safety aspects in hazardous environments.
Action 2: Students are advised to be members in professional societies like IETE, ISTE etc. to build relationship with outside world and contribute to the needs of society.</td></tr>
<tr><td colspan="4">PO 6: Project management: Use engineering management principles individually, as a team member or a leader to manage projects and effectively communicate about well- defined engineering activities</td></tr>
<tr><td>PO6</td><td>2.02</td><td>1.81</td><td>Guidance in planning, allocating responsibilities and setting timelines to meet goals and financial management skills are moderately attained.</td></tr>
<tr><td colspan="4">Action 1: Leadership qualities are inculcated in students by allowing them to participate in project contest and other technical events.</td></tr>
<tr><td colspan="4">PO 7: Life-long learning: Ability to analyse individual needs and engage in updating in the context of technological changes</td></tr>
<tr><td>PO7</td><td>1.97</td><td>1.80</td><td>Emphasis is made based on the up-gradation of knowledge and modern technologies are considerably achieved.</td></tr>
<tr><td colspan="4">Action 1: Students are motivated to undergo online courses.
Action 2: Students are encouraged to participate in various technical competitions and events.
Action 3: Students are motivated to carry out self learning and self discussion.</td></tr>
</table>

Programme Specific Outcomes (PSO) CAYm1 (2016-19):

Batch: 2016-2019			
PSOs	**Target Level**	**Attainment Level**	**Observations**
PSO1: To Sculpture the students to understand the principles and applications in electronics engineering with relevant modern communication technologies			
PSO1	**2.28**	**2.06**	The skill set of students in designing electronic and communication systems are considerably attained.
Action 1: More technical programmes are conducted to gain knowledge through association activities and technical forums. **Action 2:** Students are inspired to participate in technical events to strengthen their knowledge and to propose innovative ideas.			
PSO2: To demonstrate the proficiency in use of modern application oriented tools and software required to provide innovative solution for global requirements.			
PSO2	**2.03**	**1.80**	Involvement of modern tool usage among students is modreately achieved.
Action 1: Students are encouraged to participate in workshops and hands-on training programme to enrich their practical skills. **Action 2:** More value added courses are initiated for the students to have clear idea on the modern tool.			
PSO3: To communicate professionally and effectively with ethical and social values to serve the society.			
PSO3	**1.78**	**1.59**	Students' responsibilities among societal activities are considerably attained.
Action 1: Students are motivated to include all technical parameters and constraints according to National and International safety norms and to address environmental concerns.			

7.2. Improvement in Success Index of students without the backlog(10)

Items	LYG(2016-17)	LYGm1(2015-16)	LYGm2(2014-15)
Success index (from 4.2.1)	0.26	0.37	0.64

7.3. Improvement in Placement, Higher Studies (10)

Items	LYG(2016-17)	LYGm1(2015-16)	LYGm2(2014-15)
Placement Index (from 4.6)	0.69	1.12	1.06

7.4. Improvement in Academic Performance in Final Year (10)

Items	LYG(2016-17)	LYGm1(2015-16)	LYGm2(2014-15)
Academic Performance Index (from 4.3)	2.61	4.23	7.03

7.5. Internal Academic Audits to Review Complete Academics & to Implement Corrective Actions on Continuous Basis (10)

Items	2018-19(CAYm1)	2017-18 (CAYm2)	2016-17 (CAYm3)
Internal Academic Audits	2	2	2

7.6. New Facility Created in the Program (10)

Items	2018-19(CAYm1)	2017-18(CAYm2)	2016-17(CAYm3)
New facility created	Smart classroom, ARUDINO laboratory	Electronic System Design laboratory	Internet facility

CRITERION 8	STUDENT SUPPORT SYSTEMS	(50)

8. STUDENT SUPPORT SYSTEMS (50)

8.1 Mentoring system to help at individual level (10)

A. Details of the mentoring system that has been developed for the students for various purposes and also the efficacy of such system (10)

a. Type of Mentoring:

- P.A.Polytechnic College consistently aspires to provide value based technical education in support and progression of students for holistic development.
- Professional guidance, personal counseling and career guidance are provided to the students for over all development.

The Figure 8.1.1 shows flow of students mentoring system of our institution

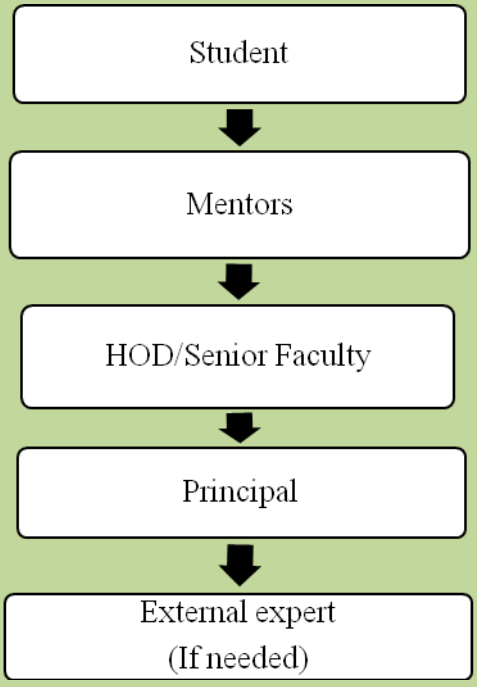


Figure 8.1.1 Student Mentoring System

- In addition to this, Anti-ragging committee, Anti-ragging squad, student grievance redressal cell and women's anti-sexual harassment cell have been formed to support and monitor students. If any misbehavior is found, disciplinary action will be taken.

- The Class counselors play a lead role in mentoring students in respect to academic career and personality development.

- Contact hour is scheduled to each faculty after college hours to counsel the students and understand their difficulties and provide solutions to their academic and other problems.

Mentoring to the students is given at all levels:

Mentoring to the students is given in various levels on need basis. Figure 8.1.2 shows the various mentoring levels given to the students.

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Figure 8.1.2 Student Support Systems

1. **Professional guidance**

The mentors discuss the issues related to academics. If students need any special care to improve their academic performance, special classes are arranged with immediate effect. The available financial support from the Institution in the form of fee waiver and scholarships from state government and central government is informed to the students.

a. Personal

Personal problems of students, emotional disturbances and family related problems are discussed and counseled. Counseling is also provided by understanding the specific needs of the students and to support them.

Orientation programme is conducted for the first year students to bridge the gap between secondary education and technical education. For hostel students, when they are staying away from home for the first time, counseling is provided to enhance their confidence level. Whenever required, parents are also invited for counseling.

Outcome: Students are able to focus more on academic and other activities.

b. Skill based

Counseling is provided to the students to enroll in additional courses and In-plant training which help them to develop their skills to succeed professionally.

Skill development Programmes such as Aptitude Training, C Language Training, Communication Skills, Advanced Java Programming, PLC programming, Embedded system, 3D Printing, Industrial visit and value added courses are organized to excel in placement.

Outcome: Students will become industry-ready.

2. Career advancement / Higher studies

Students are educated about the needs of the industry and awareness on the opportunities for higher studies and competitive exams.

Students are encouraged to appear for Bachelor level engineering, State and Central Government Services like TNPSC and RRB to enhance their employment prospects and higher studies.

Outcome: It helps the students to identify new options and opportunities for placement and higher studies.

3. Course work specific / Laboratory specific

Mentors encourage students to participate in activities like attending conferences, paper presentation, symposiums and Publishing articles in Newsletters.

Mentors mold students to participate in Project development and creating models in laboratory.

Outcome: It helps students to improve their knowledge, attitude and skills to uplift their career.

4. All round development

The mentoring provided by the faculty enables students to change their attitude and become socially active by participating in programmes such as NSS, RRC, Blood donation camp, Tree plantation, Yoga and Meditation.

Outcome: It helps the students to develop positive attitude, improves their social responsibilities and also sets goal for their future.

- **Number of faculty mentors** **:** Two per class
- **Number of students per mentor** **:** 30
- **Frequency of meeting** **:** Once in a month / Need based

8.2 Feedback analysis and reward /corrective measures taken, if any (10)

A. Methodology being followed for feedback collection, analysis and its effectiveness (05)

Feedback collected for all courses : yes

Feedback collection process

Feedback from the students is collected by the following ways:

- **Direct Feedback from the Students**

Every department has constituted class committees for each semester with six student representatives. The student members express their views on each subject and their needs during the meeting. The feedback is collected and submitted to the Principal through Head of the Department for further action.

- **Interactive Feedback**

The Principal will chair Principal - Student meeting with the students twice in a semester regarding their academic, other activities and facilities. In this meeting, the feedback on the faculty members is also taken into consideration.

- **Feedback form**

Feedback is collected directly from the students through feedback form. It constitutes with the following parameters and ratings:

Parameters:

- Planning and organizing sessions
- Punctuality and regularity in handling the class
- Ability to make student understand the course (Presentation and Communication skill)
- Fairness in assessment of students
- Faculty - Student Relationship

Ratings:

- A (10) - Excellent
- B (8) - Very Good
- C (6) - Good
- D (4) - Satisfactory
- E (2) - Below Satisfactory

The students give feedback about the faculty members who handle the subjects for them.

c. Percentage of students who participated: 80% and above

d. Feedback analysis process:

Feedback form is prepared based on various parameters and cumulatively calculated for 10 points. Each and every department obtains feedback from the students at the end of the semester. The sample copy of student feedback form and consolidated report is shown through

the Figure 8.2.1 and Figure 8.2.2. The feedback form is given to students who rate the faculty on the given parameters. Each department compiles the feedback and calculates as per numerical rating. In case of any deviation in the rating, corrective action is initiated by the Head of the Department and the Principal. These points are discussed in the Management Review meeting.

Outcome:

- Appraisal of faculty by students
- Betterment of Teaching-Learning process

P. A. POLYTECHNIC COLLEGE

POLLACHI – 642 002
Department of Mechanical Engineering
Academic Year 2019 – 2020
Even Semester

FEEDBACK FORM – STUDENTS

EVALUATION ON FACULTY BY STUDENTS

AC-16.1	31 / 63

Please rate every teacher taught you during this semester as classified below
Your response should be A, B, C, D or E
"A" is Excellent
"B" is Very Good
"C" is Good
"D" is Satisfactory
"E" is Below Satisfactory

DEPARTMENT : Mechanical Engineering
YEAR : 2019 to 2020 (II ST)
SEMESTER : IV

SECTION : A
ACADEMIC YEAR : 2019 – 2020

S. No.	PARAMETERS	N. DEVA KARTHIK	P. KRISHNA MOORTHY	P. RAJKUMAR	S. KOWSALYA	P. KRISHNA MOORTHY	P. RAJ KUMAR	K. KARUPPUSAMY
		SUBJECT NAME						
		HP	SM	FM ~~FF~~	EDC	SM lab	FM lab	EDC lab
1	Planning and Organizing Sessions	A	A	A	C	A	A	A
2	Punctuality And Regularity In Holding The Class	A	C	A	A	A	A	A
3	Ability To Make Student Understand the Course (Presentation and Communication Skill)	A	C	A	B	A	A	A
4	Fairness In Assessment of Students	A	A	A	A	A	A	A
5	Faculty Student Relationship	A	A	A	D	A	A	A

NAME: ~~K~~

(OPTIONAL)

K. Goutham Raj
SIGNATURE

(OPTIONAL)

Fig.8.2.1 Feedback Form

DEPARTMENT OF FIRST YEAR ENGINEERING

2019-2020 – Even Semester

FEEDBACK SUMMARY FORM – STUDENTS

DATE OF REVIEW:

NAME OF THE FACULTY:
KARTHIKADEVI K

DEPT: DME

YEAR: I

SECTION : A

SUBJECT HANDLED:COMMUNICATION ENGLISH – II

SEMESTER : II

PARAMETERS

1. Planning and organizing sessions
2. Punctuality and regularity in holding the class
3. Ability to make student understand the course (Presentation and Communication skill)
4. Fairness in assessment of students
5. Faculty - Student Relationship

A (10) - Excellent. B (8) - Very Good C (6) - Good D (4) - Satisfactory E (2) - Below Satisfactory

S. NO	1	2	3	4	5	S. NO	1	2	3	4	5	S. NO	1	2	3	4	5
1	10	8	10	8	10	**17**	10	10	8	8	10	**33**	10	8	10	8	8
2	10	8	10	8	10	**18**	10	10	10	10	8	**34**	8	10	8	10	8
3	10	10	8	8	10	**19**	8	10	8	8	10	**35**	10	10	8	8	10
4	10	10	8	8	10	**20**	10	8	10	8	10	**36**	10	8	8	8	10
5	10	8	8	10	10	**21**	8	8	10	10	10	**37**	10	10	8	8	10
6	10	10	10	10	10	**22**	10	10	8	8	8	**38**	10	10	8	8	10
7	8	10	8	10	10	**23**	10	8	8	10	10	**39**	10	8	10	10	8
8	10	10	8	8	10	**24**	10	6	10	8	6	**40**	8	10	8	8	10
9	8	10	10	10	8	**25**	10	10	8	10	10	**41**	10	10	10	10	10
10	10	10	10	10	10	**26**	8	10	6	8	8	**42**	8	10	8	10	10
11	10	8	10	8	10	**27**	10	10	10	8	8	**43**	10	10	10	10	10
12	10	10	10	8	8	**28**	10	10	10	10	10	**44**	10	8	10	8	10
13	8	10	10	8	10	**29**	10	8	10	8	10	**45**	10	8	10	8	10
14	10	8	10	10	10	**30**	10	10	10	8	8	**46**					
15	10	10	8	10	10	**31**	10	10	8	8	8	**47**					
16	10	8	8	8	8	**32**	8	10	10	8	10	**48**					
PARAMETER													1	2	3	4	5
AVERAGE SCORE (Max. 10)													**9.34**	**9.04**	**8.60**	**8.39**	**9.1**

CLASS COUNSELLOR **HOD**

B. Record of Corrective Measures taken (05)

a. Rewards:

- ✓ Feedback is considered for faculty appraisal.
- ✓ Recommended for **Best Faculty** award in Annual Day function

b. Corrective Measures:

- ✓ The Faculty members who score less than 7.5 out of 10 will be counseled by the Head of the Department and the Principal for improving their academic performance.
- ✓ The deficiencies are rectified through counseling and the performance is recorded in the faculty appraisal.
- ✓ Feedback helps to make appropriate changes in the teaching methodologies of the particular faculty.
- ✓ Faculty members are encouraged to participate and organize Faculty Development Programme, workshops, seminars and conferences.

c. Indices used for measuring quality of teaching-learning and summary of index values for all courses/teachers:

S.No	Performance Indices	Index value
1	Planning and organizing sessions	10
2	Punctuality and regularity in handling the class	10
3	Ability to make student understand the course (Presentation and Communication skill)	10
4	Fairness in assessment of student	10
5	Faculty - Student Relationship	10

Average rating achieved in feedback summary form is used as indices.

It is available for all faculty members at department level.

d. Number of corrective actions taken: Once in a Semester / Need based

8.3. Feedback on facilities (5)

A. Student feedback on facilities, analysis and corrective action taken (05)

Through the effective feedback system, the facilities required for the students, parents and staff are provided. The following methods are adopted to collect the feedback.

- The suggestion box is placed in all the departments and the College office wherein students post their feedback regarding facilities and other issues.
- Feedback on all aspects is collected from alumni during Alumni Meet. Feedback is analyzed and corrective actions are taken.
- Feedback is obtained from parents during parents meeting and it is reviewed by the respective Head of the Department who proposes action for the improvement.
- Any issues related to basic amenities, sports and games are reported to the Principal through the faculty advisor and the Head of the Department for necessary action.

1. Infrastructure

Class committee meeting is held thrice in a semester wherein students give feedback on any issues related to class rooms, laboratories and internet facilities. The addressed issues will be rectified. Provisions made in the infrastructure for physically challenged students are,

- ✓ Ramp at vantage points.
- ✓ Accommodation is provided on the ground floor.

2. Library

Suggestion Register and library advisory committee are available for the faculty and students to provide feedback and appropriate corrective actions are taken.

3. Transport

Suggestions related to transport facilities brought by students / parents as well as faculty are reported to the Principal for further action.

4. Housekeeping

The campus is maintained as clean, green and eco - friendly environment.

5. Hostel

Hostel committee meetings are conducted for hostellers regarding water, food, electricity and other facilities and brought to the notice of the Deputy Warden and the Warden for further action.

Anti-ragging squad visits the hostels for interaction with the students.

6. Medical assistance

First aid box, Vehicle in case of emergency and health insurance are provided to students and staff.

Corrective Action Taken

Listed below are the major issues that were resolved for the benefit of the students.

- New bus routes are arranged due to students requested to facilitate their transport destination
- Food court space has been expanded
- Additional facilities for sports and games
- Gymnasium has been renovated.
- Internet speed has been enriched upto 100 Mbps.
- Wi-Fi connectivity has been provided.
- Dust bins are provided at more places
- Renovation of toilet and bathrooms

8.4 CAREER GUIDANCE, TRAINING, PLACEMENT (20)

A. Availability (05)

The Institution has a dedicated Training and Placement Cell and Higher Education Cell through which Training and Placement and awareness to Higher Education are provided to the students.

B. Management (10)

1. Career guidance

- Career counseling guidance is offered by the senior academicians and industry experts.
- Human Resource personnel are invited regularly to interact with students.
- Students are guided to get admission in reputed Higher Education Institutions.

The following Table 8.4.1 and 8.4.2 shows list of events organized by the Institution.

Table 8.4.1 List of events organized for career guidance

Sl. No.	Event Organized	Resource Person	Date
1.	Soft Skills for Successful Career	Mr.Wonder Joky, Vice President (Operations), CIEL HR, Coimbatore.	05.02.2020
2.	Career planning and Development	Mr.S.Dwarakanathan, Ex. Vice President, Engg.R&D Brakes India Limited, Chennai.	16.08.2019
3.	C Programming	Mr.J.Santhosh, Lecturer/Computer Engineering, P.A.Polytechnic College, Pollachi.	08.02.2019
4.	Team Work and Stress Management	Mr.Sugumaran uppili, Co-Founder and Chief Technology Officer, Haritham Technologies , Coimbatore.	25.01.2019
5.	Aptitude and soft skills	Mr. M. Thanikachalam, Director , AWAKE IAS/IPS Academy, Coimbatore.	14.12.2018

		Mrs.K.Karthika devi, Senior lecturer/English, P.A.Polytechnic college, Pollachi	
6.	Awareness Programme on competitive examinations	Mr. K.Krishnamoorthy, Deputy Superintendent of Police, SDO,Pollachi	08.02.18
7.	Leadership Skills and Time Management	Thiru.M. Malmarugan, Vice president(Operations) Magna Electro Castings Ltd, Coimbatore.	30.12.16
8.	"How Do I Find the Right Career for Me"	Prof.P.Surya narayanan, Former professor, Department of English, Government Arts College, Coimbatore.	10.06.16

Table 8.4.2 List of events organized for Higher Education Cell

S.No	Event Organized	Resource Person	Date
1.	1.Level of education and employment 2.Online e-learning	Dr.T.Varunkumar HoD/Mechanical engineering, P.A College of engineering and Technology, Pollachi.	26.02.2019
2.	Leadership is the context of higher education.	Dr.L.Murali, HoD /Electronics and communication Engineering, P.A College of Engineering and Technology, Pollachi.	17.09.2018
3.	Integrating practical knowledge into the education system	Thiru.S.Manikandan, Executive Engineer, TANGEDCO(FORMERLY TNEB),Consumer Grievance Redressal Forum, Udumalpet EDC, Udumalpet .	04.01.2018

4.	Life Innovation	Dr.D.Sentthilkumar, Professor, Mechanical engineering, P.A College of engineering and Technology, Pollachi.	06.03.2017

2. Training and Placement Cell

An exclusive Training and Placement Cell is functioning for providing continuous training and placement assistance to the students during their course of study.

a. Training Facilities

- Impart training on Soft Skills, Confidence – building and Personality Development.
- Professional experts engage and train students in a proactive way.
- Students are encouraged to meet industry personnel directly to explore opportunities.
- For improving their employability, skill based trainings, soft skills, technical, analytical and logical skills are provided by internal trainers and industry experts.
- The list of regular training programmes offered by the Institute is given in the Table 8.4.3

Table 8.4.3 List of training programmes offered by the institution

S.No	Training Provided to the Students	Name of the Expert/Faculty Members
1.	Aptitude Training	Mr. M. Thanikachalam, Aptitude Trainer, Coimbatore.

2. .	Technical skills and Group discussion	Mr.S.Krishnaraj,Lecturer/ Mechanical Mr.A.Udhayakumar, Lecturer/ Mechanical Mr.R.Venkatraman, Lecturer/ Automobile Mr.R.B.Rajeshkumar, Lecturer/EEE Mrs.S.Priyadharshini, Lecturer/ ECE Mr.S.Jayaprakash, Lecturer/ CE Mr.T.Manikandan, Lecturer/Civil P.A Polytechnic college, Pollachi.
3.	C Programming	Mr.S.Jayaprakash Lecturer/ Computer Engineering P.A.Polytechnic College, Pollachi.
4.	Communication Skills	Mrs.K.Karthika devi, Senior Lecturer/English Ms.M.Vaitheeswari , Lecturer/English First year Engineering, P.A.Polytechnic college, Pollachi.
5.	Ethical values	Dr. D.Ganeshkumar, Professor/ Department of Electronics and Communication and Engineering, P.A. College of Engineering and Technology, Pollachi.

- Apart from training, to enhance the innovative thinking and managerial skills of young minds, students are encouraged to organize and participate in various events like paper presentations, technical symposia and project displays.

- Also, each department conducts value added courses in their areas of specialization to overcome the curriculum gap. The list of courses offered in each department is given in the Table 8.4.4

Table 8.4.4 List of Value added courses offered by the Departments

S.No.	Department	Name of the course
1	Computer Engineering	➢ C Programming ➢ Mobile phone servicing ➢ Hardware and Networking ➢ Cloud Computing ➢ Data base and SQL

		➢ Emerging Wireless Technology ➢ Data ware housing and industries standards
2	Electronics and Communication Engineering	➢ Embedded system ➢ PCB Designing and Fabrication ➢ VLSI Design ➢ C programming ➢ HDL language for VLSI design ➢ Mobile phone servicing
3	Electrical and Electronics Engineering	➢ Power electronics circuits and variable speed drives ➢ MATLAB programming for Power electronic Circuits and drives ➢ Workshop on PLC ➢ Introduction to Industrial Electrical Systems ➢ Programming on Arduino ➢ Industrial automation using PLC ➢ Electrical Components Identification and testing
4	Mechanical Engineering	➢ Solid works ➢ 3D printing ➢ Solar PV Technology ➢ CNC &Robot Technology ➢ Design for Production & Quality Program ➢ "NDT"
5	Civil Engineering	➢ Revit Architecture ➢ STADD Pro ➢ CAD ➢ Total station-Survey ➢ Quantity survey
6.	Automobile Engineering	➢ CAD Modelling ➢ 3D printing ➢ Computerized wheel alignment and wheel balancer. ➢ CNC &Robot Technology ➢ Two wheeler servicing

Facilities for training and placement:

- Air Conditioned Multimedia enabled auditorium
- Air Conditioned Conference hall and Seminar hall
- Group Discussion and Interview/Counselling Chambers.

b. Placement activities

- In each department, two coordinators are appointed to cater the needs for career guidance and training. Training and Placement Officer (TPO) of the Institution along with the department coordinators works out to achieve goal.
- Placement coordinators provide industry database to the students for opting their career. The following Table 8.4.5 shows the list of our recruiters.

Table 8.4.5 List of Recruiters

AVALON TECHNOLOGIES	
KYB MOTOR CYCLE SUSPENSION INDIA PVT LTD.	
TRIPHASE TECHNOLOGIES	
RENAULT NISSAN	
CALIBER INTERCONNECT SOLUTIONS (P) LTD	
HUNDAI MOTORS	

ANUGRAHA VALVE CASTINGS LTD, COIMBATORE.	
DAEBU AUTOMOTIVE SEAT INDIA PVT,LTD, SRIPERAMBUDUR.	
LUCAS TVS PADI	
MAGNA ELECTRO CASTINGS PVT,LTD, KINATHUKADAVU	
CAMERON	
INTEGRA AUTOMATION	

C .Effectiveness (05)

The following Table 8.4.6 shows our student placement record.

Table 8.4.6 Placement Details

Academic Year	Depart Ment	Number of final Year Students	Total Number of final year Students	Number of Students Placed	Number of Students admitted to Higher Studies	Number of Students turned Entrepreneur	Total Number of Students	%
2018-2019	CE	32	470	14	11	-	321	68.29
	ECE	36		20	2	1		
	EEE	59		36	10	-		
	MECH	250		145	47	1		
	AE	60		20	4	1		
	CIVIL	33		-	9	-		

2017-2018	CE	22	419	10	9	-	298	71.12
	ECE	28		18	9	1		
	EEE	35		22	4	1		
	MECH	244		141	41	-		
	AE	58		22	12	2		
	CIVIL	32		-	6	-		
2016-2017	CE	16	404	7	5	-	278	68.81
	ECE	20		13	5	-		
	EEE	37		22	6	-		
	MECH	237		122	58	1		
	AE	51		17	14	-		
	CIVIL	43		-	8	-		

8.5. Entrepreneurship Cell /Technology Business Incubator (05)

A. Availability (01)

Entrepreneurship Initiatives:

The College has identified the entrepreneurship development as one of the important needs in the context of growing opportunities for enterprises in India. Therefore, as a part of entrepreneurship, P.A. Polytechnic College established an Entrepreneurship Development Cell (EDC) to develop significant percentage of students towards technocrat entrepreneurs who will become a vital role for generation of wealth and employment to our country.

B. Management (02)

The responsibility of EDC is to develop the entrepreneurial skills among the students through conducting/organizing programs like Entrepreneurship Awareness Camp (EAC), workshops, guest lectures, seminars, skill development and hands-on training programme. Successful entrepreneurs, first generation entrepreneurs, academicians, experts from banking and financial organization are invited to share their experiences and ideas with the students. Also, industry visits are arranged with a view to know more about the products being manufactured, plant layout, best practices in industries, manufacturing facilities and processes. The Table 8.5.1 shows the constitution of EDC.

Table 8.5.1 EDC Committee Members

S.No.	Name	Designation/Department	Portfolio
1.	Mr.A.Ponnambalam	PRINCIPAL	Convener
2.	Mr.S. Balakrishnan	Sr. Lecturer/Automobile	Co-convener
3.	Mr. N.Devakarthik	Sr. Lecturer/ Mechanical	Coordinator
4.	Mr. K.Sureshkumar	Sr. Lecturer /Electrical and Electronics	Member
5.	Mr.S.Krishnaraj	Lecturer/ Mechanical	Member
6.	Mr. S.Jayaprakash	Sr. Lecturer /Computer	Member
7.	Mr .T. Manikandan	Sr. Lecturer/ Civil	Member
8.	Mrs.S.Priyadharshini	Sr. Lecturer/ Electronics and Communication	Member
9.	Ms.M.Vaitheeswari	Lecturer/First Year	Member

The EDC established in our institution is determined to acquire the following objectives:

- To conduct/organize entrepreneurship awareness program for students every year
- To initiate student entrepreneurship competency
- To produce quality entrepreneurs
- To organize project exhibition towards entrepreneurship development

The following Table 8.5.2 shows the list of events organized by EDC.

Table 8.5.2 List of events organized by EDC

2019-2020				
S. No	**Event organized**	**Date**	**Resource person with designation**	**Number of Students benefited**
1.	Essential qualities for Entrepreneur	27.09.2019	Mr.S.Vignesh, Sr.Hr.Manager Integra Automation Systems private Limited, Kurunalli palayam, Pollachi.	386

2.	Entrepreneur ship-Opportunities and challenges	31.01.2020	Mr.M.Muthuraj, Managing Director, Profenna Industrial Training centre, Coimbatore.	390
2018-2019				
1.	Entrepreneurship Awareness Camp	25.09.2018	Mr .A. Ponnambalam, Principal, P.A Polytechnic College, Pollachi. Dr.S.Suresh Assistant Professor/Computer Science Engineering, P.A.College of Engineering and Technology, Pollachi. Dr.D.Senthilkumar Prof essor/ Mechanical Engineering, P.A.College of Engineering and Technology, Pollachi. Mr.N.Senthilkumar, HoD/Mechanical Engineering, P.A.Polytechnic College, Pollachi.	448
2.	Guest lecture on Business start up	25.02.2019	Mr.A.K.Muthusamy, Managing Director, ARTIN Builders, Pollachi **.**	451
2017 – 2018				
1.	How to become an Entrepreneur	08.09.2017	Mr.J.Sridhar Prabhu, All zone systems private limited, Coimbatore.	405

2.	One day seminar on Entrepreneurship : Launching your start-up	26.02.2018	Mr.M. Manthrachalam, Senior Manager-Personal, Magna Electro Castings limited, Coimbatore.	384
2016-2017				
1.	Essentials of Start-up	02.09.2016	Mr. V. Angappa, Proprietor, Mega tech scientific instruments limited, Coimbatore.	383
2.	Opportunities in Government sector for entrepreneur	10.02.17	Mr.M.Sathish kumar, Maxlab systems technologies unlimited, Coimbatore.	391

C. Effectiveness (02)

Data on Students benefitted: The following Table 8.5.3 shows the list of PAPTC Alumni turned as Entrepreneurs.

Table 8.5.3 Entrepreneur details

Department	Batch	Name of the Entrepreneur
Computer Engineering	2019-2020	-
	2018-2019	Mr.R.Mark Brighten
	2017-2018	-
	2016-2017	
Electrical and Electronics Engineering	2019-2020	-
	2018-2019	-
	2017-2018	K.Lokesh prabu
	2016-2017	

Electronics and Communication Engineering	2019-2020	S.S Alagar mrithuanj
	2018-2019	B.Abishake
	2017-2018	N.S Selva Vishal
	2016-2017	
Mechanical Engineering	2019-2020	-
	2018-2019	A.Vijaya Ragavan
	2017-2018	-
	2016-2017	
Automobile Engineering	2019-2020	-
	2018-2019	M.Ranjith kumar
	2017-2018	K.Thangaraj D.Hari prasanth
	2016-2017	

CRITERION 9	GOVERNANCE, INSTITUTIONAL SUPPORT AND FINANCIAL RESOURCES	75

9.1 ORGANIZATION, GOVERNANCE AND TRANSPARENCY (25)

9.1.1State the Vision and Mission of the Institute (5)

Vision of the Institute

To provide high quality skill oriented technical education to the rural students to accomplish the global requirements.

Mission of the Institute

To provide modern facilities for imparting value based teaching-learning practices, enrich the faculty members with continuous learning and career guidance for the students.

The Vision and Mission are disseminated at

- Chairman and Principal Chamber
- College Office
- Training and Placement Cell
- Head of the Department Cabin
- Staff rooms
- Class rooms
- Laboratories
- Workshops
- Library
- Notice Boards
- Hostel
- Food court

The Vision and Mission are adequately published as indicated below

- College Website
- Institute Calendar and Handbook
- Course Log books

9.1.2 Governing body, administrative setup, functions of various bodies, service rules, procedures, recruitment and promotional policies (5)

Governance is the key activity that connects the management and staff with the stakeholders ie., the students, parents, recruiters and the community at the large. To ensure its efficiency and effectiveness, a number of administrative, academic, co-curricular and general bodies have been constituted with their duties and responsibilities.

Administrative bodies - Governing council

The governing council takes policy decisions on the administration of employees, development of infrastructure and facilities, fixing of fees as per Government norms, institute scholarships, faculty recruitment, leave and promotional rules, budget allotment etc.,

The Governing council meets every six months, where the Principal presents information on the academic performance, activities carried out and the achievements of the faculty and students during the previous semester. Discussions and deliberations are held and decisions are taken on Policy changes if any, budgetary allocations and on any other issue that needs to be addressed for the forthcoming semester.

Governing Council Members					
S. No.	Name	Position	Educational Qualification	Present Designation/ Occupation	Contact Address
1	Dr. P. Appukutty	Chairman	M.E., F.I.E., F.I.V.,	Chairman & Managing Trustee P. A. Institutions	BC 59/72, Elango Street, Mahalingapuram, Pollachi- 642 002. Ph. No. 9842263995 kuttygounder@yahoo.com
2	Dr.Lakshmi Appukutty	Member	M.A., M.Ed., M.Phil., Ph.D.	Vice-Chairperson & Trustee P. A. Institutions	BC 59/72, Elango Street, Mahalingapuram, Pollachi- 642 002. Ph. No. 9842263995 Slakshmi6899@gmail.com

3	Tmt. A. Poongothai Arul Ramesh	Member	B.Com.,M.C.A	Secretary & Trustee P. A. Institutions	60, Periyathottam, Maniyakkaranpalayam, Coimbatore- 641 006. Ph. No. 9865899222 deepaoongs@gmail.com
4	Tmt. Y.Banurekha	Member	B.A	Trustee P. A. Institutions	60, Periyathottam, Maniyakkaranpalayam, Coimbatore- 641 006. Ph. No. 9865899222
5	Mr. A. Muthusamy	Member	B.E	Chairman, KPM Group of Companies Coimbatore	621 B, Trichy Road, Coimbatore -641 005. Ph. No. 9842215567 ifo@essemengineering.com
6	Dr .K.Ramesh	State Government Nominee	M.E., Ph.D.	Mechanical /Assistant Professor (Sr.Gr), GCT, Coimbatore	Mechanical /Assistant Professor (Sr.Gr), Government College of Technology, Thadagam road, Coimbatore – 641013. Ph. No. 0422-2432221
7	Dr. T. Manigandan	Member Secretary	M.E., Ph.D.	C.E.O P. A. Institutions,	Principal Quarters, P. A. College of Engineering and Technology, Pollachi. Ph. No. 9443584648 manigandan_t@yahoo.com
8	Mr.A.Ponnambalam	Member	M.E.,	Principal P. A. Polytechnic College.	36,Krishnasamy Nagar, T.Kottampatti Mahalingapuram (PO) Pollachi 642002, ponnambalam@gmail.com

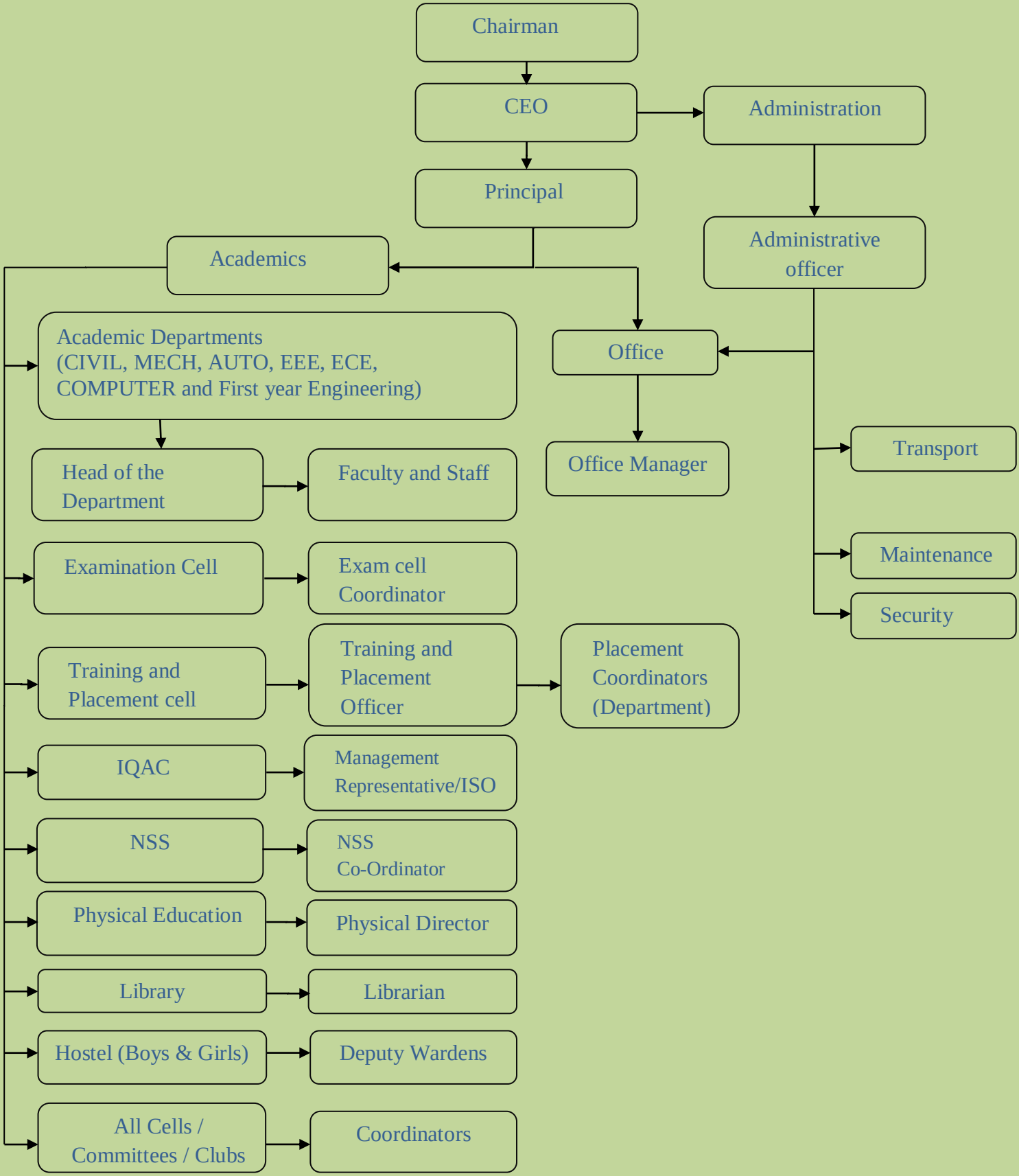


Figure 9.1.2.1 Administrative chart shows the hierarchy setup in the college

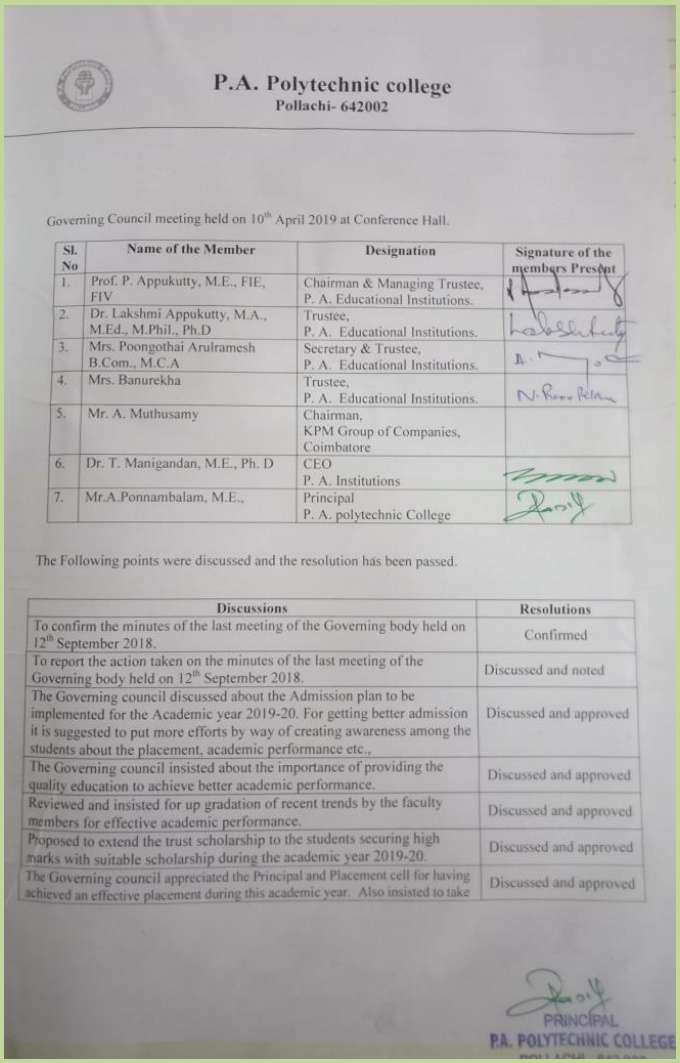
A. Administrative Bodies

The details of committees along with the names of coordinators as well as the responsibilities of each committee are given below:

S. No.	Name of committee	Coordinators	Functions and Responsibilities	Frequency of Meetings
1	**Planning and Monitoring Board**	Mr.A.Ponnambalam Principal	• Holding discussions on plan of action related to academics and other activities • Suggesting corrective measures if required	Twice in a year
2	**Program Advisory Committee**	Head of the Departments	• Organizing symposium, conferences and alumni lectures periodically • Inviting scholars, academicians and industrialists for guest lectures	Once in a month
3	**Counselling and Career Guidance**	Mr.N.Devakarthick Sr.Lecturer	• Counselling students in academics and psychological aspects • Discussing with parents regarding attendance, academic performance and discipline	Twice in a year
4	**SC/ST Cell**	Mrs.S.Yogalakshmi Sr.Lecturer	• Ensuring welfare of SC/ST students • Guidance and grievance redressal of SC/ST students	Twice in a year
5	**Training and Placement Cell**	Mr.P.Kathiravan HoD / ECE	• Organizing training programme on professional skills, Aptitude and English Communication Skills. • Arranging Placement drives. • Industry Institute Collaborative activities	Twice in a semester
6	**Entrepreneurship Development Cell**	Mr.S.Balakrishnan HoD i/c / AUTO	• Encouraging entrepreneurial culture among the Students • Developing entrepreneurship student groups and motivating them to start up their business • Exploring new business establishment opportunities	Twice in a semester
7	**Higher Education Cell**	Mrs.S.Priyatharsini Sr.Lecturer	• Guiding & motivating the students for higher education • Providing exposure to appear in competitive examinations	Twice in a year
8	**Internal Quality Assurance Cell**	Mr.P.Kathiravan HoD / ECE	• Auditing the implementation of teaching learning process within the College • Reviewing the strategic issues • Implementing review of strategic issues.	Twice in a year
9	**Grievance Redressal Committee**	Mr.VR.Shankarganesh HoD / EEE	• Encouraging the faculty and students to convey their grievances. • Addressing the grievances and taking corrective measures for the improvement of the Institution and Individual.	Twice in a year

10	**Anti- Ragging Committee**	Mr.A.Ponnambalam, Principal	• Monitoring discipline in the College and hostel premises • Collection of undertaking forms from all students in the presence of their parents/guardians at the time of admission.	Twice in a year
11	**Women Anti-Sexual Harassment Committee**	Mrs.A.Devi. Sr.Lecturer	• Encouraging the women to address their problem to the mentors • Monitoring using CCTV cameras in vantage points of the Institution and necessary actions are taken if any.	Twice in a year
12	**Examination Cell**	Mr.S.Mahalingam Sr.Lecturer	• Preparing Academic Calendar • Conducting Internal and Board exams as per the guidelines laid down by DOTE	Twice in a year
13	**Library Advisory Committee**	Mrs.N.Kavitha Sr.Lecturer	• Focusing on new subscription of journals and periodicals. • Guiding the implementation and upgradation of book distribution system. • Advising titles for purchase of new books as per requirements.	Once in a semester
14	**Alumni Association**	Mr.N.SenthilKumar HoD / MECH	• Maintaining database of the alumni of the Institution • Maintaining interaction with alumni • Getting alumni feedback and representing their views	Once in a year
15	**Hostel Committee**	Mr.A.Ponnambalam Principal	• Identifying shortcomings and problems faced by students in hostel and taking corrective actions • Discussing with students about the food menu • Monitoring with the help of CCTV cameras • Ensuring medical facilities for students in time	Twice in a semester
16	**Sports Committee**	Mr.M.Radhakrishnan Physical Director	• Organising sports events • Conducting annual sports meet at the end of every even semester.	Twice in a year
17	**Cultural Committee**	Mrs.N.Kavitha Sr.Lecturer	• Identifying the spirit and talent of students and motivating them to participate in cultural events • Organising cultural programme	Twice in a year

B. Minutes of meetings and action - taken reports



P.A. Polytechnic college
Pollachi- 642002

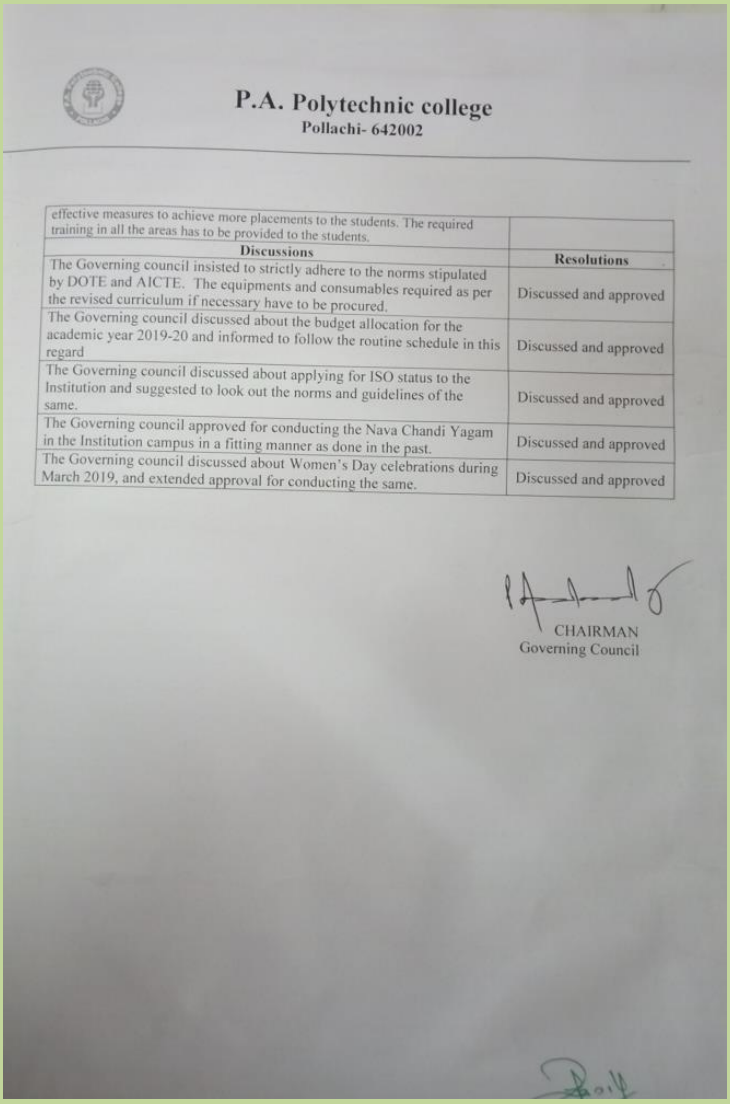
Governing Council meeting held on 10th April 2019 at Conference Hall.

Sl. No	Name of the Member	Designation	Signature of the members Present
1.	Prof. P. Appukutty, M.E., FIE, FIV	Chairman & Managing Trustee, P. A. Educational Institutions.	
2.	Dr. Lakshmi Appukutty, M.A., M.Ed., M.Phil., Ph.D	Trustee, P. A. Educational Institutions.	
3.	Mrs. Poongothai Arulramesh B.Com., M.C.A	Secretary & Trustee, P. A. Educational Institutions.	
4.	Mrs. Banurekha	Trustee, P. A. Educational Institutions.	
5.	Mr. A. Muthusamy	Chairman, KPM Group of Companies, Coimbatore	
6.	Dr. T. Manigandan, M.E., Ph. D	CEO P. A. Institutions	
7.	Mr.A.Ponnambalam, M.E.,	Principal P. A. polytechnic College	

The Following points were discussed and the resolution has been passed.

Discussions	Resolutions
To confirm the minutes of the last meeting of the Governing body held on 12th September 2018.	Confirmed
To report the action taken on the minutes of the last meeting of the Governing body held on 12th September 2018.	Discussed and noted
The Governing council discussed about the Admission plan to be implemented for the Academic year 2019-20. For getting better admission it is suggested to put more efforts by way of creating awareness among the students about the placement, academic performance etc.,	Discussed and approved
The Governing council insisted about the importance of providing the quality education to achieve better academic performance.	Discussed and approved
Reviewed and insisted for up gradation of recent trends by the faculty members for effective academic performance.	Discussed and approved
Proposed to extend the trust scholarship to the students securing high marks with suitable scholarship during the academic year 2019-20.	Discussed and approved
The Governing council appreciated the Principal and Placement cell for having achieved an effective placement during this academic year. Also insisted to take	Discussed and approved

PRINCIPAL
P.A. POLYTECHNIC COLLEGE



P.A. Polytechnic college
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effective measures to achieve more placements to the students. The required training in all the areas has to be provided to the students.	
Discussions	**Resolutions**
The Governing council insisted to strictly adhere to the norms stipulated by DOTE and AICTE. The equipments and consumables required as per the revised curriculum if necessary have to be procured.	Discussed and approved
The Governing council discussed about the budget allocation for the academic year 2019-20 and informed to follow the routine schedule in this regard	Discussed and approved
The Governing council discussed about applying for ISO status to the Institution and suggested to look out the norms and guidelines of the same.	Discussed and approved
The Governing council approved for conducting the Nava Chandi Yagam in the Institution campus in a fitting manner as done in the past.	Discussed and approved
The Governing council discussed about Women's Day celebrations during March 2019, and extended approval for conducting the same.	Discussed and approved

CHAIRMAN
Governing Council

Figure 9.1.2.2 Governing council Minutes of the Meeting

C. Service Rules, Policies and Procedures with year of publication
(with effect from june 2019)

Staff Leave Policies

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S. No.	Leave	Teaching	Non Teaching
1.	Casual Leave (CL)	• 12 Days/Year	• 12 Days/Year
2.	Medical Leave (ML)	• 8Days/year (can be accumulated up to 90 Days)	• 8Days/year (can be accumulated up to 90 Days)
3.	Maternity Leave (MAL)	• 3 months with half pay for 3-6 years experience 3 months with full pay for above 6 years of experience	• 3 months with half pay for 3-6 years experience 3 months with full pay for above 6 years of experience
4.	Vacation Leave (VL)	• Winter – 2 weeks • Summer – 3 weeks	• Winter – 1 week • Summer – 2 weeks
5.	On Duty(OD)	• As per govt order such as exam duty, valuation etc.,/ institution order such as for purchase of items, seminar ,workshop, training, conference etc., • As applicable	• As per govt order such as exam duty, approval work etc.,/ institution order such as for purchase of items, workshop, training etc., • As applicable
6.	Special leave(SL)	• In case of any accident in working environment. Minimum of half day and maximum up to 2 months • In case of staff members pursuing higher studies in part time mode, on exam days	• In case of any accident in working environment. Minimum of half day and maximum up to 2 months • In case of staff members pursuing higher studies, on exam days
7.	Compensation Leave(CoL)	• As allowed by Head of Institution for compensation of working hours in holidays, equal to his/her hours of work.	• As allowed by Head of Institution for compensation of working hours in holidays, equal to his/her hours of work.

Recruitment Procedure

- Teachers are recruited as per DOTE and AICTE norms.
- Before the commencement of each semester, vacancy positions are identified by the concerned Head of the Departments and the same is submitted to the Management for recruitment through the Principal.
- Advertisements are published in the leading daily Tamil and English Newspapers.
- Applications are invited from eligible candidates and they are scrutinized by the respective Head of the Departments and the Principal.
- Shortlisted candidates are called for personal interview.
- The interview panel comprises of Chairman, CEO, Principal, Head of the Departments, Professors and subject experts.
- Based on their performance in interview, faculty members are recruited
- Finally they will be issued appointment orders by the Chairman.

Promotion Policies

The promotion policies are followed as per AICTE norms.

The following factors are taken into account:

- Potential to assume higher responsibilities
- Promotion and increment is given to staff based on experience, overall performance and self appraisal.
- Annual increments and promotions in the grades are implemented by the management.

The Management takes effective decisions and provides appraisal details to the concerned staff member by incorporating the decisions in the proceedings of the meetings of the managing committee to make them aware of the improvements and action plan of the Institution.

1. **Principal (Rs.37400 -1600-67000)**

Minimum Qualification

a. Bachelor's and Master's degree of appropriate branch in Engineering / Technology with First Class or equivalent either in Bachelor's or Master's level

b. Minimum of 20 years relevant experience in teaching / research / industry

OR

Minimum 16 years of experience with PhD or equivalent in which at least 3 years as Post PhD experience.

2. **Head of the Department, (Rs.16400-450-20900 -500-22400)**

Minimum Qualification

a. Bachelor's and Master's degree in appropriate branch in Engineering / Technology with First Class or equivalent either in Bachelor's or Master's level.

AND

b. Minimum of 10 -12 years relevant experience in teaching / research / industry

3. **Lecturer (Selection Grade) (Rs.16400-450-20900)**

Minimum Qualification

Engineering and Technology

a. Qualification as prescribed for lecturer necessarily with Master's degree and Minimum of 10-12 years experience in teaching / research / industry

Science and Humanities

b. Qualification as prescribed for lecturer and clear the NET/SLET/SET and Minimum of 10 years experience in teaching / research / industry

4. **Lecturer (Senior Scale) (Rs.12000-420-18300)**

Minimum Qualification

Engineering and Technology

c. Qualification as prescribed for lecturer and Minimum of 5- 6 years experience in teaching / research / industry

Science and Humanities

d. Qualification as prescribed for lecturer and Minimum of 5-6 years experience in teaching / research / industry

5. **Lecturer (Rs.10000-325-15200)**

Minimum Qualification

Engineering and Technology

a. Bachelor's degree in Engineering / Technology in the relevant branch with First Class or equivalent.

OR

If candidate has Master degree, first class or equivalent is required at bachelor's or Master degree.

Science and Humanities

a. Masters degree in appropriate subject with first class or equivalent at Bachelor's or Master's level

6. **Assistant Librarian (Rs.10000-325-15200)**

   Minimum Qualification

   Masters degree in Library Science / Information Science / Documentation Science

   OR

   An Equivalent professional degree with at least First class with knowledge of computerization of library

7. **Physical Director (Rs.10000-325-15200)**

   Minimum Qualification

   b. Masters degree in Physical Education with first class or equivalent at Bachelor's or Master's level

   OR

   An Equivalent degree with at least First class with recognized University / Institution

8. **Instructor (Rs.8000–275- Rs.13500)**

   Minimum Qualification

   a. Diploma / B.Sc in appropriate branch
   b. First Class or equivalent Grade in Diploma or B.Sc.,

9. **Lab Technician (Rs. 5000 –200- Rs.8000)**

   Minimum Qualification

   Diploma / ITI / B.Sc in appropriate branch

D. Extent of awareness among the employees/ students

Information related to the governing bodies, policies, rules and various processes are disseminated through college website and various meetings.

9.1.3 Decentralisation in working and grievance redressal mechanism (5)

Various committees and cells are composed and governed by representatives from stakeholders HOD, faculty, students and management. Decisions are taken collectively.

- The Institution believes in promoting a culture of decentralized governance.
- Refining and redefining activities by keeping in view the deliberations of internal quality assurance and class committee.
- Organization of several activities by students to enhance the capabilities of students under the mentorship of faculty member, hone their event management skills.
- Empowering HOD to distribute work load to faculty, to identify the content beyond syllabus and to organize various faculty, student empowerment programs with the help of members of class committee, teaching and non-teaching faculty of the department.
- Allocation of budget on the basis of the proposals received from the department.

A. Administrators/ Decision makers

The following members of the faculty have been assigned with administrative responsibilities.

S. No.	Name of the Faculty member	Basic Academic Designation	Administrative Responsibilities
1	Mr. A.Ponnambalam	Principal	Principal
2	Mr.R.Palanisami	Associate Professor	Administrative Officer
3	Mr.N.Senthil kumar	HoD	HoD/Mech
4	Mr.P.Kathiravan	HoD	HoD / ECE, Training and Placement officer
5	Mr.V.R.Shankarganesh	HoD	HoD / EEE
6	Mr.S.Balakrishnan	Sr.Lecturer	HoD i/c /Automobile
7	Mr.N.Mathivanan	HoD	HoD / COMP
8	Mr.T.Manikandan	Sr.Lecturer	HoD i/c / CIVIL
9	Mr.D.Rammohan	Sr.Lecturer	HoD / First year Engineering

B. Mechanism and Composition of Grievance Redressal Cell including Anti Ragging Committee & Sexual Harassment Commitee

Grievance Redressal Committee

Mechanism of Grievance Redressal Committee

- Grievance Redressal committee is formed comprising of the Principal, Head of the Departments and staff members.
- All grievances and suggestions found in the suggestion box are analyzed by the Grievance Redressal Cell and suitable measures are taken.
- Guidelines of the AICTE are followed
- Regular meetings are conducted and Grievances raised are addressed.

Composition of Grievance Redressal Committee

S. No.	Name	Position	Designation
1.	Mr.A.Ponnambalam	Chairman	Principal
2.	Mr.V.R.Shankarganesh	Convener	HOD / EEE
3.	Mr.D.Rammohan	Member	HOD / First Year
4.	Mrs.S.Yogalakshmi	Member	Sr.Lecturer / Computer
5.	Mr.N.Devakarthik	Member	Sr.Lecturer / Mech
6.	Mrs.N.Kavitha	Member	Sr.Lecturer / Chemistry

Anti-ragging Committee

Mechanism of Anti-ragging Committee

- The Anti-ragging Committee is headed by the Principal.
- Institution collects undertaking form from all the students and parents/guardians at the time of admission.
- The contact numbers of the committee members are available in the Hand Book, Display Board and Institution website.
- Anti-ragging display boards are placed in important locations at Institution and hostel.
- Anti –ragging squad is formed and visits are held at food court, bus stops, rest rooms, hostel and vehicle stand etc.,
- CCTV cameras are installed at vantage points and monitored.

Composition of Anti-ragging Committee

S.No.	Name	Position (Chairman/Member)	Designation
1.	Mr.A.Ponnambalam	Chairman	Principal
2.	Mr.G.Thanigaivel	Member	Tahsildar
3.	Mr.M.Mahendran	Member	Sub Inspector of Police
4.	Mr.K.Nandhakumar	Member	Parent
5.	Mr.M.Rajendran	Member	Parent
6.	Mr.R.K.Thirumugan	Member	Student
7.	Ms.N.Lekha	Member	Student
8.	Mr.S.Mahalingam	Member	Sr.Lecturer / ECE
9.	Mr.M.Manikandan	Member	Lecturer / CSE
10.	Mr.S.Sriraman	Member	Instructor

Composition of Anti-ragging Squad

S. No.	Name	Position (Chairman/Member)	Designation
1.	Mr.A.Ponnambalam	Chairman	Principal
2.	Mr.P.Kathiravan	Member	HOD/ECE
3.	Mr.N.Senthilkumar	Member	HOD/MECH
4.	Mr.S.Balakrishnan	Member	HOD i/c /Automobile
5.	Mrs.N.Kavitha	Member	Sr.Lecturer/ Chemistry
6.	Mrs.S.Kavitha	Member	Sr.Lecturer/ ECE
7.	Mr.M.Radhakrishnan	Member	Physical Director
8.	Mr.P.Sivakumar	Member	Sr.Lecturer / Mech
9.	Mr.S.Jayaprakash	Member	Lecturer / CSE

Women Anti-sexual Harassment Cell

- Anti-sexual Harassment Cell functions in the Institution with senior women faculty members as presiding member and mentors.
- It spreads awareness and follows the guidelines prescribed by AICTE
- Any student, staff member who are victim of the harassment can approach the committee any time and immediate and strict corrective measures are undertaken
- It conducts awareness through meetings to encourage complaints against any suppression.

Composition of Women Anti-sexual Harassment Cell

S.No.	Name of the Member	Position
1.	Mrs.A.Devi Sr. Lecturer/ Physics	Convener
2.	Mrs.S.Rakini Sr.Lecturer / Maths	Co-convener
3.	Mrs.S.Priyatharasini Sr.Lecturer / ECE	Member
4.	Miss.S.Kowsalya Lecturer / EEE	
5.	Miss.S.Vijaya Surya Lecturer / Mech	
6.	Ms.M.Vaitheeswari Lecturer / English	
7.	Mrs.V.Subashini Instructor /Civil	

9.1.4 Delegation of Financial Powers (5)

The college operates on a democratic and decentralized administration. A number of committees have been formed for effective governance and to develop leadership qualities among staff members.
These committees and such a delegation of power has led to not only a sense of involvement of faculty members but also for speed and effective administration.

S. No.	Designation	Particulars	Limit to Sanction
1	Principal	Procurement of Equipments, Service and Maintenance and promotion of academic and development activities.	Rs 25,000
2	HoDs	Procurement of laboratory Consumables, Stationeries, Service and Maintenance	Rs 15,000
3	Training and Placement officer	To Spend for student career and professional development activities	Rs 15,000
4	Coordinators	To spend for their committee activities	Rs 10,000

9.1.5 Transparency and Availability of Correct / Unambiguous Information in Public Domain (5)

Information related to the institutional policies, rules and various processes are disseminated through college website.

Notice Boards are available in main block through which information is made available to the staff and students and circulars are sent to the classrooms.

9.2. Budget Allocation, Utilization, & Public Accounting at Institute Level (10)

The summary of current financial year's budget and actual expenditure incurred (for the Institution exclusively) for the previous three financial years are as follows:

The Institution's budget allocation procedure is as follows:

1. College budget is prepared in the month of February / March of every year for the ensuing academic year, which starts from June.
2. Heads of the departments and office under the guidance of the Principal will prepare the budget according to the requirements of each and every department covering major heads listed below:
    - Lab equipments
    - Computers and software
    - Lab consumables
    - Maintenance and service
    - Research and Development
    - Academic related expenses
    - Printing and stationery expenses
3. The budget is sent to the Management through Principal for approval and fund allocation.
4. Based on the approval, Principal allocates budget to each department under various heads.

For Current Financial Year minus1 2018-19

Total Income: 3,63,96,403				Actual expenditure: 3,02,45,885			Total No. of students: 1427
Fee	**Govt.**	**Grant (s)**	**Other Sources (Bank Interest & FD)**	**Recurring including Salaries**	**Non-recurring**	**Special projects/Any other, specify**	**Expenditure per student**
2,75,77,283	80,96,500	-	7,22,620	3,01,67,720	78,166	-	**21,195**

For Current Financial Year minus2 2017-18

Total Income: 3,50,98,256				Actual expenditure: 3,28,68,337			Total No. of students: 1414
Fee	**Govt.**	**Grant (s)**	**Other Sources (Bank Interest & FD)**	**Recurring including Salaries**	**Non-recurring**	**Special projects/Any other, specify**	**Expenditure per student**
2,80,15,320	37,38,000	-	33,44,936	2,99,20,461	29,47,875	-	**23,245**

For Current Financial Year minus3 2016-17

Total Income: 3,64,44,132				Actual expenditure: 3,57,67,646			Total No. of students: 1373
Fee	**Govt.**	**Grant (s)**	**Other Sources (Bank Interest & FD)**	**Recurring including Salaries**	**Non-recurring**	**Special projects/Any other, specify**	**Expenditure per student**
2,85,82,951	71,10,270	-	7,50,911	3,53,87,226	3,80,420	-	**26,051**

9.2.1. Adequacy of budget allocation (4)

Allocation of fund is made as per the availability of funds. The fund would be spent from the approved budget and the spending is monitored by the accounts section. The budgets are adequate for the Departments and the Institution.

Additional allocations are made in special cases, if arise. The Institution carefully monitors the expenses, so that the necessities are met without affecting the smooth working of the Institution. The Management has been providing adequate budget since the inception of the College.

9.2.2. Utilization of allocated funds (4)

The head of the each department is empowered to utilize the approved budget under the heads projected by them as and when required within the academic year.

The funds are allocated by the administrative team headed by the Principal. The funds are utilized by the Principal and the Head of the Departments as per the allocation. Any additional funds requirement beyond the budget allocations is approved by the Chairman as and when required.

Actions for procurement of lab equipment, up-gradation of existing lab facilities, purchase of consumables etc. are initiated from the respective department heads and the funds are released from the office on approval by the Principal.

During the last three years, the budget was utilized to meet expenses such as staff salary, infrastructure development, purchase of equipment, expenses towards consumables and contingencies, travel etc.

Utilization of allocated funds

S. No.	Financial Year	Budget Sanctioned	Actual Expenditure	Utilization %
1	2018 – 2019	3,19,22,000	3,02,45,885	94.75
2	2017 – 2018	3,47,01,000	3,28,68,337	94.72
3	2016 – 2017	3,76,77,000	3,57,67,646	94.93

9.2.3. Availability of the audited statements on the Institution's website (2)

The audited statements of accounts of the college made available on the College website.

CFYm1 2018 – 19: URL: http://www.papolytechnic.org/auditedstatementfy3.html

CFYm2 2017 – 18: URL: http://www.papolytechnic.org/auditedstatementfy2.html

CFYm3 2016 – 17: URL: http://www.papolytechnic.org/auditedstatementfy1.html

9.3 Department Specific Budget Allocation, Utilization (5)

The Head of the Department of our programme receives the budget proposals under 'recurring' and 'non-recurring' heads from each lab of the Department before the commencement of the financial year and submitted to the Head of the Institution for approval.

Electronics and Communication Engineering:

For Current Financial Year 2019-20

Total Budget : 1,21,000		**Actual expenditure : 1,10,008**		**Total No. of students: 73**
Non recurring	**Recurring**	**Non recurring**	**Recurring**	**Expenditure per student**
0	1,21,000	0	1,10,008	**1507**

For Current Financial Year minus1 2018-19

Total Budget : 1,13,000		**Actual expenditure : 1,02,901**		**Total No. of students: 84**
Non recurring	**Recurring**	**Non recurring**	**Recurring**	**Expenditure per student**
0	1,13,000	0	1,02,901	**1225**

For Current Financial Year minus2 2017-18

Total Budget : 1,25,000		**Actual expenditure : 1,13,366**		**Total No. of students: 70**
Non recurring	**Recurring**	**Non recurring**	**Recurring**	**Expenditure per student**
9,000	1,16,000	7,973	1,05,393	**1620**

For Current Financial Year minus3 2016-17

Total Budget : 1,30,000		**Actual expenditure : 1,17,794**		**Total No. of students: 50**
Non recurring	**Recurring**	**Non recurring**	**Recurring**	**Expenditure per student**
20,000	1,10,000	19,600	98,194	**2356**

9.3.1 Adequacy of budget allocation (2)

Allocation of fund is made as per the Department Proposed Budget. The allocated fund is spent for meeting out the expenses and the spending is monitored by the Budget In charge of the department.

The allocated budget is adequate for the department. Additional allocations are made in special cases, if arise.

9.3.2. Utilization of allocated funds (3)

The funds are utilized for procurement of lab equipment, up-gradation of existing lab facilities, Purchase of Consumables, for conducting Seminar, Workshop, Conference, Symposium etc., on approval by the Principal.

The allocated fund is utilized efficiently by the department.

S. No.	Financial Year	Budget proposed (Rs.)	Budget Sanctioned (Rs.)	Actual Expenditure (Rs.)	Utilization %
1.	2019 – 2020	155000	1,21,000	1,10,008	90.9
2.	2018 – 2019	1,35,000	1,13,000	1,02,901	91.1
3.	2017 – 2018	1,50,000	1,25,000	1,13,366	90.7
4.	2016 – 2017	1,70,000	1,30,000	1,17,794	90.6

9.4 Library and Internet (20)

9.4.1 Quality of learning resources (hard/soft) (10)

- AICTE Zero deficiency reports were received for all the assessment years.

Quality of learning resources (hard/soft)

a. Available learning resources

- Number of titles : 2065 / 916
- Number of volumes : hard- 11800/ soft -10862
- Reference Books : 246
- CDs : 569
- Student Project reports : 391
- International / National journals : 25
- NPTEL resources.

Digital Library:

Availability of digital library content	: yes
Availability of an exclusive server	: yes
Availability over Intranet/Internet	: yes
Availability of exclusive space/room	: yes
Number of users per day	: 25
Number of E-books	: 10862

b. Accessibility to students:

- The library works on all days of the year (excluding Government holidays) to the students.
- Journals are subscribed at regular intervals.
- Search can be done by using AUTOLIB.
- NPTEL lessons are available and can be accessed through internet.
- Books for TNPSC, SSC and Civil Service Examination are available.

Titles and volumes:

Academic Year	Books			Journals/ Magazines
	Total No. of Volumes	Total No. of Titles	No. of New Editions Added	Total No.
2020 - 21	11800	2065	266	25
2019 - 20	11544	2065	500	25
2018 - 19	11044	1978	544	25
2017 - 18	10500	1882	500	25
2016 - 17	10000	1800	600	25

9.4.2 Internet (10)

Name of the Internet provider	BSNL (Leased Line)
Available bandwidth	100 Mbps
Wi-Fi availability	Campus / Hostels are Wi-Fi enabled
Internet access in labs, class rooms, library and offices of all Departments	yes
Security arrangements	Yes -Sonic Wall NSA 4500

9.5 Institutional Contribution to the Community Development/ Go-green (05)

Students and Staff members are encouraged to organize the Programmes such as

- Blood Donation Camp
- Tree Plantation
- Blood donation & Blood grouping Camp
- Yoga & Meditation
- Road safety awareness program
- HIV/AIDS awareness program
- Corona Virus awareness program

National Service Scheme

It ensures that everyone who is needy gets help to enhance their standard of living and lead life of dignity.

NSS is the right platform for the students to actively contribute their services for the cause of community, nation and to become responsible citizen of India.

In addition to general service-one week NSS Camp have been conducted at Kallipalayam village with 48 students consisting of the following programs with NSS Co-ordinators.

1. Self employment training to rural women
2. Basic Technical training to rural youths
3. Road safety awareness program
4. Medical Camp
5. Renovation of rain water harvesting structures.
6. Eradication of plastic awareness program
7. Tree plantation.
8. Voters awareness campaign.
9. HIV/AIDS awareness program.

9.6 Alumni Performance and Connect (10)

Alumni association has been established and all the alumni students are the members of it. It helps to develop the institution and to encourage the students to be successful in their respective field.

- Every Academic Year, meeting is held to interact with alumni to share their views for the benefit of the Institution.
- Improving the infrastructure of the institution after getting the feedback of alumni.
- Involving alumni in giving the lectures to our students in improving their attitude
- Conducting workshop and training programs with distinguished alumni for improving the knowledge of students in their respective fields.