PES Institute of Technology and Management

Electronics & Communication Engg.

Part A : Institutional Information

1 Name and Address of the Institution

PES Institute of Technology and Management,
PES Campus, NH-206, Sagar Road, Guddada Arakere, Kotegangoor Post, Shivamogga-577204

2 Name and Address of Affiliating University

Visvesvaraya Technological University

3 Year of establishment of the Institution:

2007

4 Type of the Institution:

☐ University	☐ Autonomous
☐ Deemed University	☑ Affiliated
☐ Government Aided	

5 Ownership Status:

☐ Central Government	☑ Trust
☐ State Government	☐ Society
☐ Government Aided	☐ Section 25 Company
☐ Self financing	☐ Any Other(Please Specify)

6 Other Academic Institutions of the Trust/Society/Company etc., if any:

Name of Institutions	Year of Establishment	Programs of Study	Location
PES Institute of Advanced Management Studies	2008	Commerce, Computer Application, PG Department of Commerce.	NH 206, Sagar Road, Shivamogga - 577204
PES Pre University College	2009	11th and 12th Standard	NH 206, Sagar Road, Shivamogga - 577204
PES Public School	2010	CBSE-1st Standard to 10th Standard.	NH 206, Sagar Road, Shivamogga - 577204
PES Polytechnic	2011	Diploma Courses	NH 206, Sagar Road, Shivamogga - 577204

7 Details of all the programs being offered by the institution under consideration:

Name of Program	Program Applied level	Start of year	Year of AICTE approval	Initial Intake	Intake Increase	Current Intake	Accreditation status	From	To	Program for consideration	Program for Duration
Electronics & Communication Engg.	UG	2007	2007	120	No	120	Applying first time	--	--	Yes	4

Name of Program	Program Applied level	Start of year	Year of AICTE approval	Initial Intake	Intake Increase	Current Intake	Accreditation status	From	To	Program for consideration	Program for Duration
Digital Electronics	PG	2014	2014	24	Yes	0	Not eligible for accreditation	--	--	No	2

Sanctioned Intake for Last Five Years for the Digital Electronics	
Academic Year	**Sanctioned Intake**
2019-20	0
2018-19	0
2017-18	24
2016-17	24
2015-16	24
2014-15	24

Computer Science and Engineering	UG	2007	2007	120	No	120	Applying first time	--	--	No	4
Computer Science and Engineering	PG	2014	2014	24	Yes	0	Not eligible for accreditation	--	--	0	2

Name of Program	Program Applied level	Start of year	Year of AICTE approval	Initial Intake	Intake Increase	Current Intake	Accreditation status	From	To	Program for consideration	Program for Duration
Sanctioned Intake for Last Five Years for the Computer Science and Engineering											
Academic Year				**Sanctioned Intake**							
2019-20				0							
2018-19				0							
2017-18				24							
2016-17				24							
2015-16				24							
2014-15				24							
Civil Engineering	UG	2013	2013	60	No	60	Applying first time	--	--	0	4
Information Science and Engineering	UG	2007	2007	60	No	60	Applying first time	--	--	0	4
Mechanical Engineering	UG	2010	2010	120	No	120	Applying first time	--	--	0	4
Electrical and Electronics Engineering	UG	2007	2007	60	No	60	Not eligible for accreditation	--	--	No	4
Master of Business Administration	PG	2008	2008	120	Yes	60	Eligible but not applied	--	--	No	2

Name of Program	Program Applied level	Start of year	Year of AICTE approval	Initial Intake	Intake Increase	Current Intake	Accreditation status	From	To	Program for consideration	Program for Duration

Sanctioned Intake for Last Five Years for the Master of Business Administration	
Academic Year	**Sanctioned Intake**
2019-20	60
2018-19	60
2017-18	60
2016-17	60
2015-16	60
2014-15	120

8 Programs to be considered for Accreditation vide this application:

S No	Level	Discipline	Program
1	Under Graduate	Engineering & Technology	Civil Engg.
2	Under Graduate	Engineering & Technology	Computer Science & Engg.
3	Under Graduate	Engineering & Technology	Electronics & Communication Engg.
4	Under Graduate	Engineering & Technology	Information Science & Engg.
5	Under Graduate	Engineering & Technology	Mechanical Engg.

9 Total number of employees in the institution:

A. Regular* Employees (Faculty and Staff):

Items	2019-20		2018-19		2017-18	
	MIN	MAX	MIN	MAX	MIN	MAX
Faculty in Engineering (Male)	74	76	79	80	77	78
Faculty in Engineering (Female)	18	18	18	20	21	21
Faculty in Maths, Science & Humanities (Male)	7	7	6	6	7	7
Faculty in Maths, Science & Humanities (FeMale)	7	7	8	8	8	8
Non-teaching staff (Male)	24	27	22	25	21	22
Non-teaching staff (FeMale)	11	13	7	8	7	8

B. Contractual* Employees (Faculty and Staff):

Items	2019-20		2018-19		2017-18	
	MIN	MAX	MIN	MAX	MIN	MAX
Faculty in Engineering (Male)	1	1	0	0	0	0
Faculty in Engineering (Female)	0	0	0	0	0	0
Faculty in Maths, Science & Humanities (Male)	0	0	0	0	0	0
Faculty in Maths, Science & Humanities (FeMale)	0	0	0	0	0	0
Non-teaching staff (Male)	0	0	0	0	0	0
Non-teaching staff (FeMale)	0	0	0	0	0	0

10 Total number of Engineering Students:

Engineering and Technology- UG	☑ Shift1	☐ Shift2
Engineering and Technology- PG	☑ Shift1	☐ Shift2
Engineering and Technology- Polytechnic	☐ Shift1	☐ Shift2
MBA	☑ Shift1	☐ Shift2
MCA	☐ Shift1	☐ Shift2

Engineering and Technology- UG Shift-1

Items	2019-20	2018-19	2017-18
Total no. of Boys	1096	1088	1188
Total no. of Girls	930	935	936
Total	**2026**	**2023**	**2124**

Engineering and Technology- PG Shift-1

Items	2019-20	2018-19	2017-18
Total no. of Boys	0	0	2
Total no. of Girls	0	0	1
Total	**0**	**0**	**3**

Engineering and Technology- MBA Shift-1

Items	2019-20	2018-19	2017-18
Total no. of Boys	68	49	48
Total no. of Girls	51	56	64
Total	**119**	**105**	**112**

11 Vision of the Institution:

To be the most preferred institution for engineering & management education, research and entrepreneurship by creating professionally superior and ethically strong global manpower.

12 Mission of the Institution:

To prepare students for professional accomplishments and responsible global citizenship while fostering continuous learning and to provide state-of-the-art education through the committed and highly skilled faculty by partnering and collaborating with industry and R&D institutes.

13 Contact Information of the Head of the Institution and NBA coordinator, if designated:

Head of the Institution	
Name	Dr. Chaitanya Kumar M V
Designation	Principal
Mobile No.	9380741865
Email ID	principal_pestim@pes.edu

NBA Coordinator, If Designated

Name	Dr. Jagadeesha S N
Designation	Professor and HOD, Department of Computer Science & Engineering
Mobile No.	9916104383
Email ID	hodcse@pestrust.edu.in

PART B: Criteria Summary

Critera No.	Criteria	Total Marks	Institute Marks
1	VISION, MISSION AND PROGRAM EDUCATIONAL OBJECTIVES	60	47.00
2	PROGRAM CURRICULUM AND TEACHING - LEARNING PROCESSES	120	96.00
3	COURSE OUTCOMES AND PROGRAM OUTCOMES	120	99.00
4	STUDENTS' PERFORMANCE	150	88.92
5	FACULTY INFORMATION AND CONTRIBUTIONS	200	125.92
6	FACILITIES AND TECHNICAL SUPPORT	80	60.00
7	CONTINUOUS IMPROVEMENT	50	35.00
8	FIRST YEAR ACADEMICS	50	37.07
9	STUDENT SUPPORT SYSTEMS	50	36.00
10	GOVERNANCE, INSTITUTIONAL SUPPORT AND FINANCIAL RESOURCES	120	110.00
	Total	**1000**	**735**

Part B

1 VISION, MISSION AND PROGRAM EDUCATIONAL OBJECTIVES (60) Total Marks 47.00

1.1 State the Vision and Mission of the Department and Institute (5) Total Marks 5.00

Institute Marks : 5.00

<table>
<tr><td>Vision of the institute</td><td>To be the most preferred institution for engineering & management education, research and entrepreneurship by creating professionally superior and ethically strong global manpower.</td></tr>
<tr><td>Mission of the institute</td><td>To prepare students for professional accomplishments and responsible global citizenship while fostering continuous learning and to provide state-of-the-art education through the committed and highly skilled faculty by partnering and collaborating with industry and R&D institutes.</td></tr>
<tr><td>Vision of the Department</td><td>To be a leading center of excellence in the field of electronics & communication engineering for learning & research with professional ethics.</td></tr>
<tr><td>Mission of the Department</td><td><table><tr><th>Mission No.</th><th>Mission Statements</th></tr><tr><td>M1</td><td>To provide quality technical education for students develop into globally competent professionals</td></tr><tr><td>M2</td><td>To develop a framework for collaboration and multidisciplinary activities and to ensure ethical, value based education to address social needs.</td></tr></table></td></tr>
</table>

1.2 State the Program Educational Objectives (PEOs) (5) Total Marks 4.00

Institute Marks : 4.00

PEO No.	Program Educational Objectives Statements
PEO1	To develop the ability among students to understand the concept of core subjects.
PEO2	To give exposures to emerging technologies, adequate training and opportunities to work as team on multidisciplinary projects with effective communication skills.
PEO3	To cultivate ethical practices in Professional, Societal & Environmental needs by engaging in life-long learning.

1.3 Indicate where the Vision, Mission and PEOs are published and disseminated among stakeholders (10) Total Marks 8.00

Institute Marks : 8.00

Dissemination Media/Location	Mode of dissemination
College Website **www.pestrust.edu.in/pesitm** (http://www.pestrust.edu.in/pesitm)	Published
HOD Cabin, Staff rooms	Display Boards
Department notice boards	Display Boards
Department Laboratories	Display Boards
News Letter : PESITRONICS	Published in student's news letters twice in a year

Dissemination methods:

In addition, the Department Vision, Mission and PEOs are also bring awareness among the newly joined first year students during Induction program, and also displayed in faculty development programs, expert lecture sessions, and so on.

First Year Induction Program:

In the Inaugural Session of first year induction program, we bring awareness about the institute and department vision and mission among the new entrants of students and parent's community. In addition, we also brief about the significance of program educational objectives, outcome-based education (OBE) and accreditation. To meet the stringent requirements of departmental vision the awareness is given to students and parents regarding their roles and responsibilities.

Faculty Development Program:

In-house faculty development program has been conducted in the Institute. Here the faculty members exchange their ideas and new trends in their research work they carried out. This could enable the faculty members to upgrade themselves that could help to achieve high professional growth rates and disseminate knowledge to the students. In recognition of this, our department also conducts few short term programs to acquire knowledge and relevant experience. During this program we are providing awareness about the Institute and Department Vision and Mission, PEOs, OBE, and accreditation. Here awareness brings among the faculties to know their roles and responsibilities in achieving the set vision of the department.

Technical Sessions:

Experts from Industry and Institutes are invited to department to learn the local and global needs with recent trends in research for both the faculties and students. Most of the delivered sessions are hands-on with the aim to gain highest practical exposure to students. Here also, awareness we provide about institute and departmental vision and mission, PEOs, OBE, and accreditation. Note that, here awareness is given to the students about their roles and responsibilities to achieve the departmental vision.

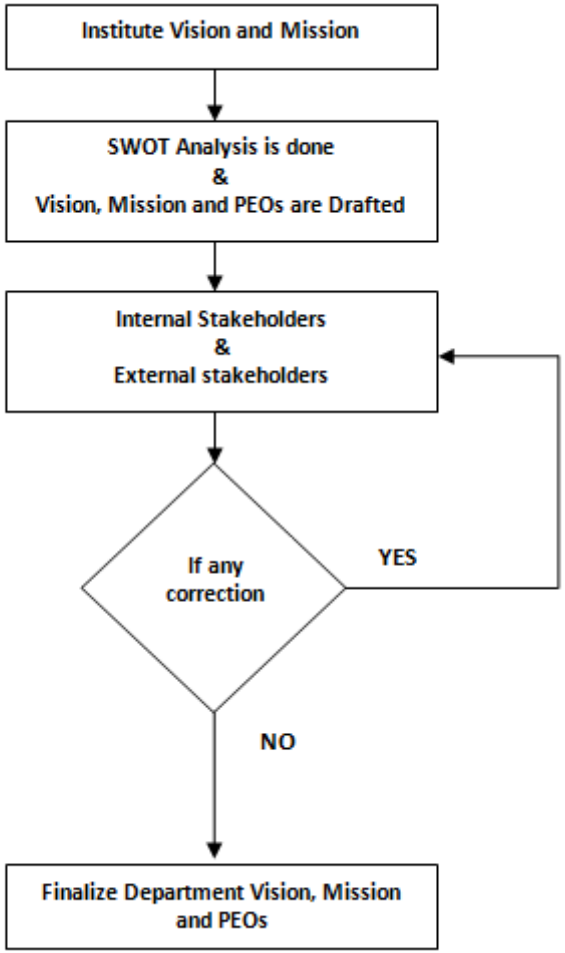
1.4 State the process for defining the Vision and Mission of the Department, and PEOs of the program (25)

Total Marks 20.00

Institute Marks : 20.00

To define the vision, mission and PEOs of the department, inline with the vision and mission of the institute. The process followed is given below.

Staff meetings are conducted periodically to decide/modify the vision, mission and PEOs of the department based on the vision and mission of the institute. Suggestions from HOD, Professors and other staff members are taken to review and give knowledge about the vision, mission and PEOs of the department.



Flow chart 1.1: Mission, Vision and PEOs development process

The steps involved in defining Departmental Vision, Mission and PEOs is collecting suggestions by discussing with the stake holders (External: Industry experts, Parents and Student alumni; Internal: Teaching and non-teaching staff, Students, Management, Academic expert). Strengths, Weaknesses, Opportunities and Threats (SWOT) analysis is done based on the received suggestions and recommendations by stake holders and the same is presented to department meeting then department Vision, Mission and Program Educational Outcomes (PEOs) are defined. The finalized Vision, Mission and PEOs are sent to the Governing Body of college for the ratification. The corrections required (if any) from the department meeting will be updated and made final.

1.5 Establish consistency of PEOs with Mission of the Department (15) Total Marks 10.00

Institute Marks : 10.00

JUSTIFICATION FOR PEO'S MAPPING WITH DEPARTMENT MISSION

Mission statements are the stated and actively pursued functions of the department with the objective of attaining the stated Program Educational Objectives. The correlation levels of mission statements are given in the PEO - Mission matrix. Justification of the level of pursuit of the mission statements (numbered M1 and M2) is given against each PEO according to Employer and Alumni survey is as follows.

PEO 1: The graduates are expected to master in fundamentals of engineering so that they acquire proficiency in working across the breadth of engineering disciplines which leads to strongly mapping of PEO1 to M1.The learning environment provided in the college is designed to adapt and promote different pedagogy methods for learning by the students; this coupled with the Program Curriculum leading to engage Graduates in continuous learning in their professional careers which leads to moderately mapping of PEO1 to M2.

PEO2: Demonstrating core technical competency through effective use of technical education of E &CE graduates to be a successful engineer is leading to moderately mapping of PEO2 to M1.To sustain in professional life with ethics, core competency developed during the graduation play an important role thus leading to strongly mapping of PEO2 to M2.

PEO3: The strategy to achieve this PEO is to encourage students to take up number of projects involving social and environmental issues through continuous learning and adapting pedagogical methods leading to strongly mapping of PEO3 to M2.

PEO Statements	M1	M2
To develop the ability among students to understand the concept of core subjects.	3	2
To give exposures to emerging technologies, adequate training and opportunities to work as team on multidisciplinary projects with effective communication skills.	2	3
To cultivate ethical practices in Professional, Societal & Environmental needs by engaging in life-long learning.	1	3

2 PROGRAM CURRICULUM AND TEACHING - LEARNING PROCESSES (120) Total Marks 96.00

2.1 Program Curriculum (20) Total Marks 16.00

2.1.1 State the process used to identify extent of compliance of the University curriculum for attaining the Program Outcomes and Program Specific Outcomes as mentioned in Annexurel. Also mention the identified curricular gaps, if any (10) Institute Marks : 9.00

PES Institute of Technology and Management is affiliate to Visvesvaraya Technological University (VTU), Belagavi. Consequently, university prescribes the syllabus & curriculum. The curriculum includes core and elective courses/subjects. Once in 4 years the curriculum is formulated and reviewed with the help of Board of Studies (BOS).

The undergraduate program schemes are:

- 2010 scheme
- Choice Based Credit System (CBCS) scheme for the academic year 2015
- Choice Based Credit System (CBCS) scheme for the academic year 2017
- Choice Based Credit System (CBCS) scheme for the academic year 2018

Program Outcomes (POs)

PO1	**Engineering knowledge:** Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
PO2	**Problem analysis:** Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.
PO3	**Design/development of solutions:** Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.
PO4	**Conduct investigations of complex problems**: Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.
PO5	**Modern tool usage:** Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modelling to complex engineering activities with an understanding of the limitations.
PO6	**The engineer and society:** Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.
PO7	**Environment and sustainability:** Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.
PO8	**Ethics**: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
PO9	**Individual and team work:** Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.

PO10 **Communication:** Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.

PO11 **Project management and finance:** Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.

PO12 **Life-long learning:** Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

Program Specific Outcomes (PSOs).

E&CE graduates will be able to:

PSO1. Analyze and design analog & digital circuits or systems for a given specification and function.

PSO2. Implement functional blocks of hardware-software co-designs for signal processing and communication applications.

The Process used to identify the extent of compliance of the University curriculum for attaining the Program Outcomes (POs) and Program Specific Outcomes (PSOs) is described below.

- The program curriculum is categorized into various streams like Basic Science courses, Engineering Science courses, Professional core courses, Professional Electives, Open electives, Mandatory courses Project work, Seminar and Internship.
- Subjects in each stream are identified.
- Course outcomes (COs) are defined for all the subjects.
- COs are mapped with POs and PSOs.

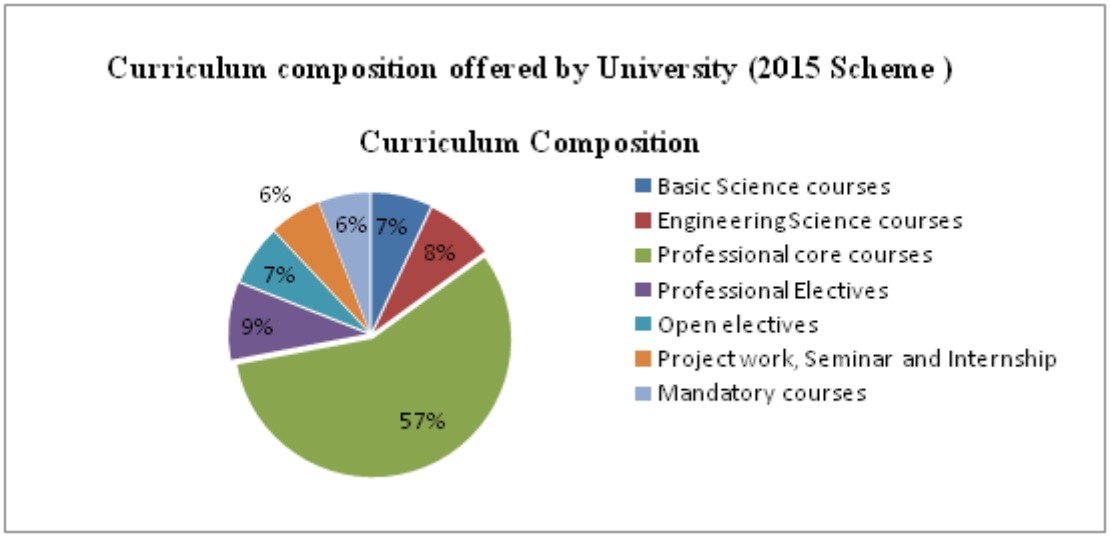
Program Curriculum

The curriculum provided by the VTU for an academic year is further classified in to various streams as shown in table 2.1.1.a below and the subject identified under each stream is mentioned.

Table 2.1.1.a. Various Streams of Program Curriculum

Sl. No	TYPE OF COURSES	COURSES	Percentage
1	Basic Science courses	Engineering Physics, Engineering Chemistry etc.	7
2	Engineering Science courses	Basic Electronics, Elements of Mechanical Engineering, Basic Electrical Engineering etc.	8

3	Professional core courses	Analog Electronics Circuits , Digital Electronics, Network Analysis, Microcontroller ,Signals & Systems, Digital Signal Processing, Analog Communication, VLSI	57
4	Professional Electives	Microelectronics Circuits , Nano electronics, Switching & Finite Automata Theory, Operating System etc	9
5	Open electives	Automotive Electronics,. OOP Programming using C++ ,DS using C++	7
6	Project work, Seminar and Internship	Project work phase-I, Project work phase-II, Technical Seminar, Internship	6
7	Mandatory courses	Constitution of India, Professional Ethics and Cyber law, Environmental studies, Kannada kali, Kannada Manasu.	6



Consolidated Course articulation matrix

The table 2.1.1.b. gives the articulation matrix of Electronics & Communication Engineering stream, the correlation of subjects with POs and PSOs is depicted as shown below for the CAYm1 2018-19 (15 Scheme VTU syllabus).

Table 2.1.1.b. Consolidated Course articulation matrix

CAY m1 2018-19 (15 Scheme details)

Courses	Subject Code	COURSE NAME	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO 10	PO 11	PO 12	PSO1	PSO2
C101	15MAT11	Engineering Maths - I	√	√	√	√										
C102	15PHY12	Engineering Physics	√	√	√	√	√	√	√					√		
C103	15CIV13	Elements of Civil Engg. & Engineering Mechanics	√	√		√		√						√		
C104	15EME14	Elements of Mechanical Engineering	√	√	√	√								√		
C105	15ELE15	Basic Electrical Engineering	√	√	√	√	√							√		
C106	15WSL16	Workshop Practice	√	√							√					
C107	15PHYL17	Engineering Physics Lab	√	√	√	√	√	√	√							
C108	15MAT21	Engineering Maths - II	√	√	√	√										
C109	15CHE12	Engineering Chemistry	√	√												
C110	15PCD13	Programming in C and data Stracture	√	√	√											
C111	15CED14	Computer Aided Engineering Drawing	√	√			√							√		
C112	15ELN15	Basic Electronics	√	√	√										√	
C113	15CPL16	C Programming Lab	√				√							√	√	
C114	15CHEL17	Engineering Chemistry Lab	√	√	√	√										
C201	15MAT31	Engineering Mathematics-III	√	√	√	√								√		
C202	15EC32	Analog Electronics	√	√	√	√									√	
C203	15EC33	Digital Electronics	√	√	√	√									√	√
C204	15EC34	Network Analysis	√	√	√					√					√	
C205	15EC35	Electronic Instrumentation	√	√	√	√	√							√	√	
C206	15EC36	EngineeringElectromagnetics	√	√	√	√										√
C207	15ECL37	Analog Electronics Laboratory	√	√	√						√				√	
C208	15ECL38	Digital Electronics Laboratory		√	√	√				√	√	√		√	√	
C209	15MAT41	Engineering Mathematics-IV	√	√	√	√								√		
C210	15EC42	Microprocessors	√	√	√	√	√							√	√	
C211	15EC43	Control Systems	√	√	√	√	√								√	
C212	15EC44	Signals and Systems	√	√	√											√
C213	15EC45	Principles of Communication Systems	√	√	√	√	√								√	
C214	15EC46	Linear Integrated Circuits	√	√	√					√	√				√	√
C215	15ECL47	Microprocessor Lab	√	√	√		√	√		√	√	√		√	√	
C216	15ECL48	Linear ICs and Communication Lab		√	√	√				√	√	√		√	√	√

C301	15ES51	Management and Entrepreneurship		√	√					√	√	√	√	√		
C302	15EC52	Digital Signal Processing	√	√	√	√										√
C303	15EC53	Verilog HDL	√	√	√	√	√								√	√
C304	15EC54	Information Theory & Coding	√	√	√	√	√					√	√	√	√	√
C305	15EC553	Operating System	√	√	√	√	√									√
C306	15EC562	Object Oriented Programming Using C++	√	√	√	√	√								√	√
C307	15ECL57	DSP Lab		√	√								√	√	√	√
C308	15ECL58	HDL Lab	√	√	√		√			√	√				√	√
C309	15EC61	Digital Communication	√	√	√										√	
C310	15EC62	ARM Microcontroller & Embedded Systems	√	√	√	√	√								√	
C311	15EC63	VLSI Design	√	√	√	√	√									
C312	15EC64	Computer Communication Networks	√	√	√	√	√								√	√
C313	15EC655	Microelectronics	√	√	√										√	
C314	15EC661	Data Structures Using C++	√	√	√	√	√									
C315	15EC663	Digital System Design using Verilog	√	√	√	√	√								√	
C316	15ECL67	Embedded Controller Lab	√	√	√	√					√				√	√
C317	15ECL68	Computer networks laboratory	√	√	√	√	√								√	
C401	15EC71	Microwave and Antennas	√	√	√	√	√								√	√
C402	15EC72	Digital Image Processing	√	√	√		√	√			√	√	√	√		
C403	15EC73	Power Electronics	√	√	√	√	√								√	√
C404	15EC743	Real time systems		√	√	√	√						√	√		
C405	15EC752	IOT and wireless sensor networks	√	√	√									√		√
C406	15ECL76	Advanced communication lab	√	√	√	√									√	√
C407	15ECL77	VLSI LAB	√	√	√		√				√		√		√	√
C408	15ECP78	Project Work Phase I	√	√	√		√				√		√		√	√
C409	15EC81	Wireless Cellular and LTE 4G Broadband	√	√	√	√		√						√		
C410	15EC82	Fiber Optics & Networks	√	√	√											√
C411	15EC831	Micro Electro Mechanical Systems	√	√	√	√	√									
C412	15EC84	Internship/Professional Practice	√	√	√	√	√	√	√	√		√				

C413	15ECP85	Project Work	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
C414	15ECS86	Seminar	√	√	√	√		√	√	√	√	√	√	√	√	√	√

Gap Identification

Figure 2.1.1.a. gives the process diagram employed for gap identification and to fill the gaps identified, Guest lectures, seminars and talks have be arranged.

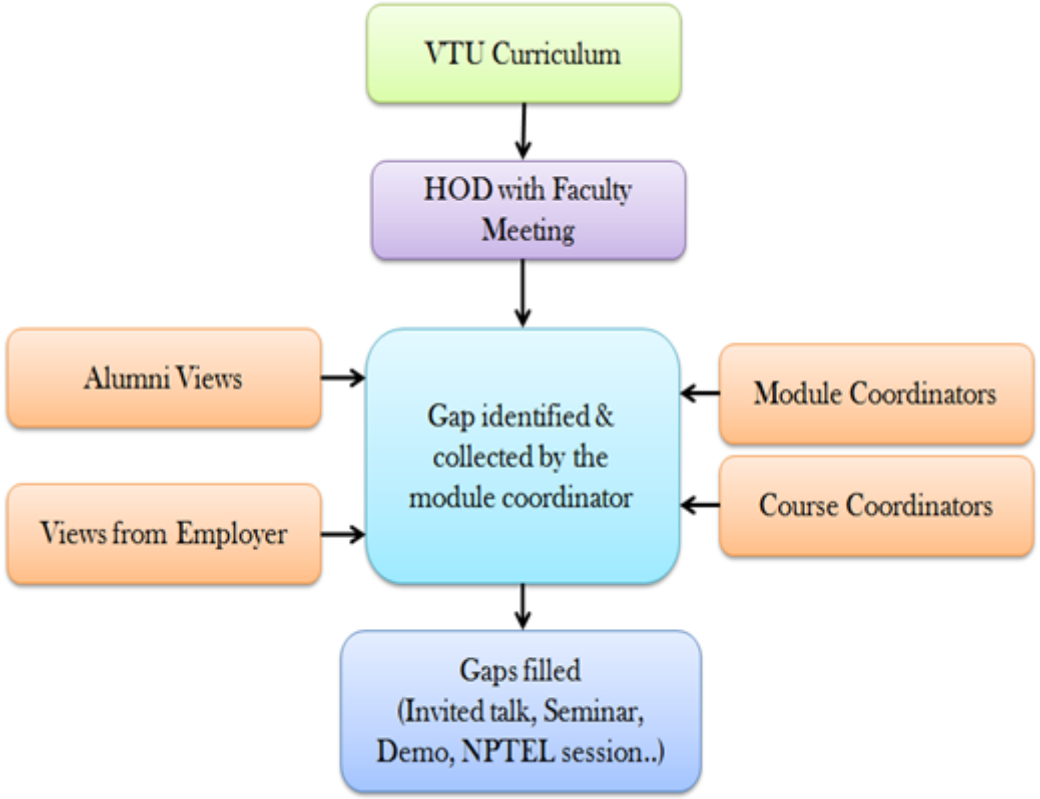


Figure 2.1.1.a. Process diagram for gap identification

- Before the start of semester the finalized VTU curriculum is displayed on the VTU website.
- Department meeting is held after the VTU curriculum & COE is displayed and subject allotment is carried out. HOD informs the faculty members to identify the gaps (if any) for the respective subject allotted in coordination with the Module coordinators, Alumni's & Employers.
- Identified gaps are collected by module coordinator & various actions are taken to bridge the identified gap.

The following tables depict the gaps identified for the CAYm1,CAYm2 & CAYm3 and action taken to fill the gaps identified.

Table 2.1.1. a. Gap identification for the CAYm1 (2018-19)

Sl. No	Gap	Action taken	Date, Month and Year	Resource person with designation	% of students	Relevance of PO's and PSO's

1	Applications of Signals and Systems-Interpolation, natural & forced response	Organized a technical talk on this topic	05/04/2019	Dr.M Madhavi Assoc. Prof. Dept. of E&CE, PESITM, Shivamogga.	95 %	PO1,P02, P04, P03, PSO1
2	Optical networking and applications	Conducted a Talk on this topic	08/02/2019	Dr. Murulidhar kulkarni	90%	PO1,P02,P03,PSO1
3	State Variable Analysis Network graphs & matrices	Organized a technical talk on this topic	16/11/2018	Mr. Sunil M D Asst. professor, Dept. of E&CE, JNNCE, Shivamogga.	90%	PO1,P02,P03, P04, PSO1
4	Semiconductor Memories	NPTEL Video Lecture	07/09/2018	Dr. Santanu Chattopadhyay Professor, Dept.of E&CE, IIT Kharagpur	92%	PO1,P02,P03,PSO1
5	Generation of Microwave Oscillation by TWT, Magnetron and Reflex Klystron	Organized a talk on the topic.	02/08/2018	Dr.Chandrappa D N Professor & HOD Dept of ECE, PESITM Shivamogga	95%	PO1,P02,P03, P04, PSO2
6	Theory behind DAC, ADC, Stepper motor, DC motor, Introduction to Synthesis & Simulation tool.	Conducted a Talk on the topic & explained the concept.	12/10/2018	Mr. Kunjan D. Shinde, Asst. Prof. Dept. of E&CE. PESITM, Shivamogga	92%	PO1,P02,P03,PSO1
7	Op-amp design, Common source, common drain, Gate Level Design.	Conducted a Demo Session on Cadence	20/04/2019 21/04/2019	Mr. Shivaprasad B K, Asst. Prof. Dept. of E&CE, PESITM, Shivamogga	95%	PO1,P02,P03,PSO1

8	Group delay & phase delay of FIR filters. Applications of DSP.	Class Session on the topic	12/11/2018	Mrs. Rashmi T S Asst. Prof. Dept. of E&CE, PESITM, Shivamogga	95	PO1,P02,P03,PSO1
9	Classification of receivers in PCS	Class Session on the topic	30/04/2019	Mr. Mahendra S N, Asst. Prof., Dept. of E&CE, PESITM, Shivamogga	92	PO1,P02,P03,PSO1
10	EM Simulation tool for Antenna Design	Workshop on the topic	17/11/2018	Dr. Chaitanyakumar M V, Principal, PESITM, Shivmogga.	85	PO1,P02,P03,PSO2

Table 2.1.1. b. Gap identification for the CAYm2 (2017-18)

Sl. No	Gap	Action taken	Date, Month and Year	Resource person with designation	% of students	Relevance of PO's and PSO's
1	Design of Arithmetic circuits in CMOS VLSI - Adders-multipliers-shifter	Class Seminar	11/04/2018	Mr. Shivaprasad B K, Mrs. Shyamala S C, Asst. Prof. Dept. of E&CE, PESITM, Shivamogga	90%	PO1,P02,P03,PSO1
2	Basics of Embedded C & Programming techniques in CORTEX M-3	Talk on Programming techniques in CORTEX M-3	16/03/2017 17/03/2017	Mr. Pramod Rampur, Asst. Prof. Dept. of E&CE, PESITM, Shivamogga	92%	PO1,P02,P03,PSO1
3	FET and its characteristics	Demonstration on the topic	15/09/2018	Mr. Chethan B R, Asst. Prof. Dept. of E&CE, PESITM, Shivamogga	90%	PO1,P02,P03,PSO1

4	Theory on Stepper motor & DC motor	Class lecture on the topic	14/04/2018	Mr. Kunjan D. Shinde, Mr. Vishwanth Muddi. Asst. Prof. Dept. of E&CE, PESITM, Shivamogga	90%	PO1,P02,P03,PSO1
5	Experiment on Code converters	Invited talk on the topic	26/08/2017	Mr. Anil Kumar, Asst. Prof. Dept. of E&CE, JNNCE, Shivamogga.	92%	PO1,P02,P03,PSO1

Table 2.1.1. c. Gap identification for the CAYm3 (2016-17)

Sl. No	Gap	Action taken	Date, Month and Year	Resource person with designation	% of students	Relevance of PO's and PSO's
1	Requirements of Microwave devices like Tubes. Basics of generating of microwaves by the devices.	Guest lecture on the topic	16/09/2016	Dr. Hallappa Gajera, Prof., Dept. of PG, Center, Hassan.	94%	PO1,P02,P03,PSO1
2	PLA, PAL, FPGA 10ES33	Video Lectures	26/08/2016	NPTEL Video lecture	90%	PO1,P02,P03,PSO1
3	DC characteristics of BJT (AEC lab)	Conducted a demo Session	22/08/2016	Mr. Chethan B R Asst. Prof. Dept. of E&CE, PESITM, Shivamogga	90%	PO1,P02,P03,PSO1

4	Synthesis, simulation Switch level description 10EC45	Conducted a demo session on the tool	10/03/2017	Mr. Shivaprasad B K & Mr. Kunjan D. Shinde Asst. Prof. Dept. of E&CE, PESITM, Shivamogga	92%	PO1,P02,P03,PSO1
5	Experiments on Signal Processing like noise removal, audio processing. 10ECL57	Guest Lecture	12/05/2017	Mr. Ganesh, Dept. of E&CE, BIET, Davangere.	95%	PO1,P02,P03,PSO1

2.1.2 State the delivery details of the content beyond the syllabus for the attainment of POs and PSOs (10)

Institute Marks : 7.00

2018-19

S.No	Gap	Action Taken	Date-Month-Year	Resource Person with Designation	% of students	Relevance to POs, PSOs
1	PCB design and IOT	Four Days workshop on PCB design and IOT	14/03/2019	Dr. Narasimhan. Singapur Philips , Senior Application Manager Sponsored By Board for IT Education Standards (BITES) Bangalore	90	PO3,PO4, PSO1
2	Robotics Models making process	Three days' workshop on ROBOTICs	01/04/2019	Mr . Abhishek Design Engineer Rovers Lab Bangalore	85	PO3,PO4,PO5 PSO2
3	Satellite Communication	Invited Talk	20/10/2018	Mr. Vimalan J Assistant Director(E)/ HOO, IBES, All India Radio, Bhadravathi	90	PO3,PO2,PSO2
4	EM Simulation tool for Antenna Design	Two-day workshop on "EM Simulation tool for Antenna Design	17/11/2018	Dr. Chaitanya Kumar M V, Mr. Jagadish M, & team. Assistant Professor, Department of ECE, PESITM	40	PO4, PO5, PSO2

2017-18

S.No	Gap	Action Taken	Date-Month-Year	Resource Person with Designation	% of students	Relevance to POs, PSOs
1	HFSS Tool for antenna design	Two-day workshop on HFSS Tool for Antenna Designs	07/11/2017	Dr Halappa Gajera Professor PG Center Hassan Mysore University	40	PO3,PO4, PSO1
2	Optical Networking	Invited Talk	09/11/2017	Dr.Muralidhar S Kulkarni Professor ECE Dept, NITK Surthkal	90	PO3,PO4,PO5 PSO2

2016-17

S.No	Gap	Action Taken	Date-Month-Year	Resource Person with Designation	% of students	Relevance to POs, PSOs
1	Image Processing	Two-day workshop on Real time Image processing	24/04/2017	Mr.Raghu Manohar R Design Engineer Sarvasya Semiconductors Belagavi	80	PO3,PO4, PSO2

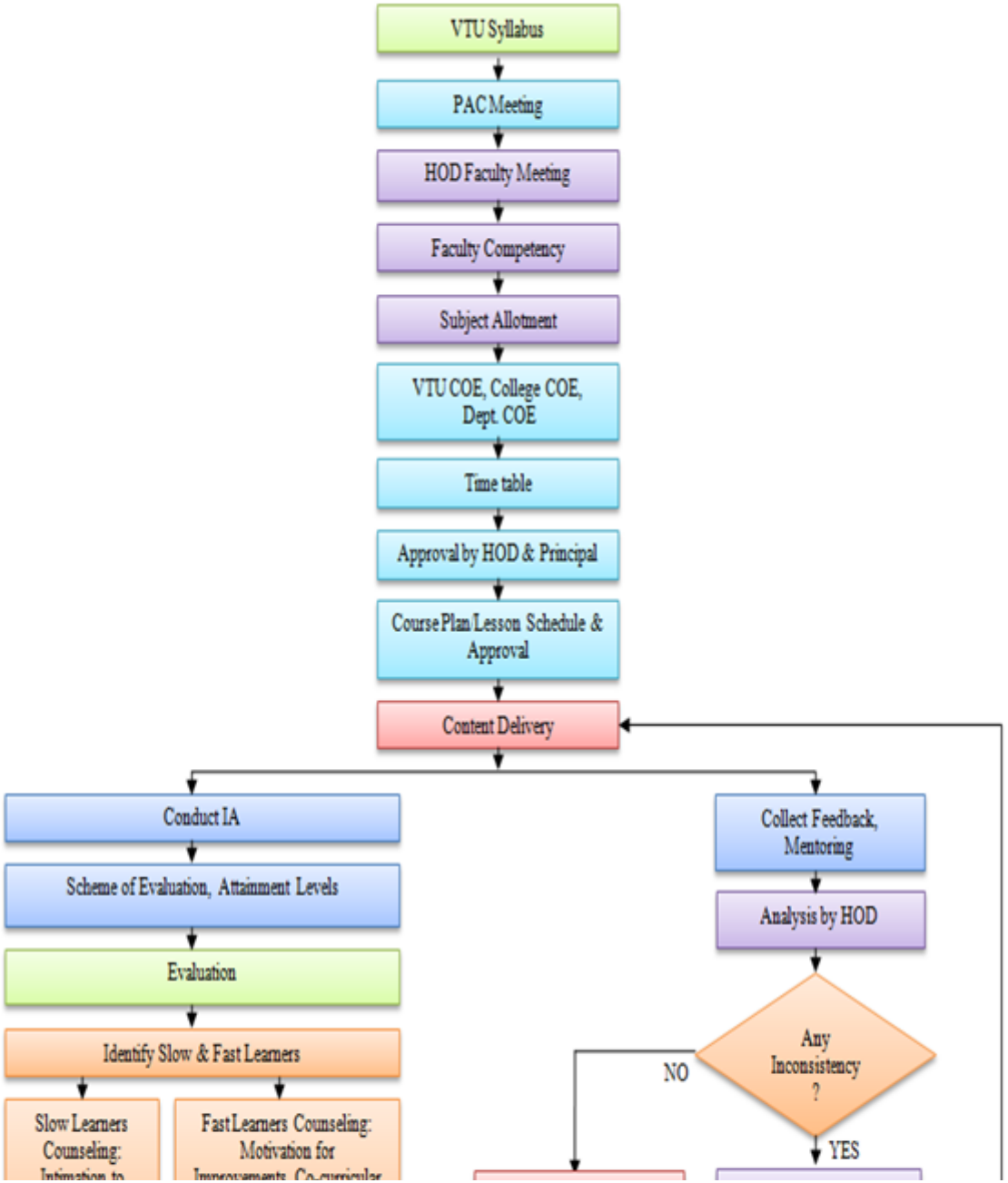
2.2 Teaching - Learning Processes (100) Total Marks 80.00

2.2.1 Describe processes followed to improve quality of Teaching & Learning (25) Institute Marks : 20.00

The academic planning begins with university calendar which depicts the semester beginning, last working day, tentative schedule of practical and theory examination.

- Based on the VTU calendar of events, college and department calendar of events will be prepared. College calendar of events consists of the activities planned for the semester which includes internal test dates, total number of working days and holidays.
- The college calendar of events is prepared and circulated among the faculties and displayed on the notice board.
- Department calendar of events contains conduction of events like organizing guest lectures, conferences, industrial visits, workshops *etc*.
- The Subject option form is circulated among the faculty to give their preferences for the subsequent semester course. In the department meeting, allotment of courses is done by the HOD considering experience and preferences given by the faculty members.
- Faculty of the department adopts various Teaching & Learning methodologies.
- Assignments are given to students to enhance their academic performance.
- The department will identify the bright students and slow learners. Department motivates the slow learners to attend additional classes and help them to overcome the difficulties. Encouragement is given to the bright students to attend more workshops and technical talks.

- Remedial classes are conducted for the slow learners based on their previous academic performance.
- Faculties maintain the academic course file.
- Industrial visits are arranged to reduce the curriculum gaps.



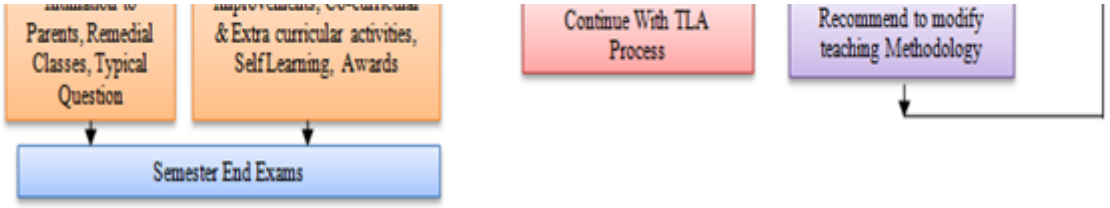


Figure 2.2.1.a. Flow diagram for Teaching & Learning Process

The student academic assessment consists of:

- For 2018 scheme: Continuous Internal Evaluation (40 Marks) and Semester End Examination (60 Marks)
- For 2017 scheme: Continuous Internal Evaluation (40 Marks) and Semester End Examination (60 Marks)
- For 2015 scheme: Continuous Internal Evaluation (20 Marks) and Semester End Examination (80 Marks)
- For 2010 scheme: Continuous Internal Evaluation (25 Marks) and Semester End Examination (100 Marks)

The CIE consists of three tests, the average of the best two test marks and Assignments/Seminars/Quiz will be considered for the award of final CIE marks. The question papers for the Semester end examination are set by VTU. The final marks will be awarded by considering continuous internal evaluation marks and Semester End Examination marks.

A. Adherence to Academic calendar:

Academic calendar of VTU is prepared by the University and sent to the College as shown in Figure 2.2.1.b. University calendar mentions the semester beginning and last working day, tentative schedule of practical and theory examination.

Academic Calendar of VTU, Belagavi for EVEN Semester of 2019-2020 (Jan 2020 – July 2020)

	II Sem B. E. / B. Tech. / B. Arch	IV & VI Sem B. E. /B. Tech. IV, VI&VIII Sem B. Arch.	VIII Sem B.E / B.Tech & X Sem B. Arch	IV Sem MCA	VI Sem MCA	IV Sem MBA	IV Sem M. Tech.	IV Sem M. Arch.	II Sem M. Tech.	II Sem MCA	II Sem MBA	II Sem M. Arch.
Commencement of EVEN Semester	10.02.2020	10.02.2020	10.07.2020	27.01.2020	27.01.2020	10.02.2020	27.01.2020	27.01.2020	05.03.2020	05.03.2020	14.02.2020	14.02.2020
Last Working day of EVEN Semester	01.06.2020	01.06.2020	01.06.2020	20.05.2020	20.05.2020	01.06.2020	20.05.2020	20.05.2020	22.06.2020	22.06.2020	05.06.2020	05.06.2020
Practical Examination	03.06.2020 To 13.06.2020	03.06.2020 To 13.06.2020	-	26.05.2020 To 30.05.2020	-	-	-	-	25.06.2020 To 30.06.2020	25.06.2020 To 30.06.2020	-	-
Theory Examinations	**15.06.2020 To 04.07.2020**	**15.06.2020 To 20.07.2020**	**03.06.2020 To 11.06.2020**	**03.06.2020 To 18.06.2020**	-	**03.06.2020 To 28.06.2020**	**03.06.2020 To 10.06.2020**	-	**01.07.2020 To 11.07.2020**	**01.07.2020 To 11.07.2020**	**08.06.2020 To 20.06.2020**	**09.06.2020 To 20.06.2020**
Viva Voce	-	-	15.06.2020 To 20.06.2020	-	-	-	-	-	-	-	-	-
Summer Project / Professional training	-	-	-	-	22.05.2020 To 30.05.2020 (Submission of report to VTU)	01.04.2020 To 15.04.2020 (Submission of report to VTU)	12.06.2020 To 25.06.2020 (Submission of report to VTU)	-	13.07.2020 To 31.07.2020	-	23.06.2020 To 21.07.2020	01.07.2020 To 25.08.2020
Commencement of ODD Semester	27.07.2020	27.07.2020	27.07.2020	27.07.2020	-	-	-	-	03.08.2020	27.07.2020	27.07.2020	28.08.2020

NOTE

1. College Time Table shall be arranged for five and a half week days and planned to accommodate EDUSAT transmission slots, the schedule of which will be notified separately.
2. The faculty/staff shall be available to undertake any work assigned by the university.
3. If any of the above date is declared to be a holiday then the corresponding event will come into effect on the next working day.
4. Notification regarding Calendar of Events relating to the conduct of University Examination will be issued by the Registrar (Evaluation) from time to time.

REGISTRAR

Figure 2.2.1.b: VTU Academic Calendar Even Sem (Academic Year- 2019-20)

B. Institute calendar of events:

The institute academic calendar is prepared by referring the VTU calendar. Dates fixed for the various events. The Figure 2.2.1c shows the institute academic calendar of events.

PESITM

PES Institute of Technology & Management

NH 206, Sagar Road, Shivamogga - 577 204

CALENDAR OF EVENTS FOR EVEN SEM BE & MBA 2019-20

Month		Dates						General Holidays	Academic Activities BE	Academic Activities MBA
FEBRUARY	SUN		2	9	16	23				
	MON		3	10	17	24			10-02-2020 Commencement of BE classes	10-02-2020: Commence ment of IV sem MBA
	TUE		4	11	18	25			10th-19th, 10 days SIP Phase-2 for I year BE	14-02-2020: Commence ment of II sem MBA
	WED		5	12	19	26			17-20th 4 days Soft-Skill Training for IV & VI Sem BE	
	THUR		6	13	20	27				
	FRI		7	14	21	28		21st Mahashivarathri	22nd Alumni Get-together	
	SAT	1	8	15	22	29				
MARCH	SUN	1	8	15	22	29				
	MON	2	9	16	23	30			19, 20, 21 - First - IA for BE students	19- 24 - First - IA for MBA Students
	TUE	3	10	17	24	31			26th Dispatch of First IA Report	28th Dispatch of First IA Report
	WED	4	11	18	25			25th Chandramana Yugadi	28 th Parents-Teacher Meet	
	THUR	5	12	19	26					
	FRI	6	13	20	27					
	SAT	7	14	21	28					
APRIL	SUN		5	12	19	26				
	MON		6	13	20	27		6th Mahaveer Jayanthi	20, 21, 22 - Second - IA for BE students	20- 24 - Second - IA for MBA Students
	TUE		7	14	21	28		14th Ambedkar Jayanti	25th Dispatch of Second IA Report	27th Dispatch of Second IA Report
	WED	1	8	15	22	29			25 th Parents-Teacher Meet	
	THUR	2	9	16	23	30				
	FRI	3	10	17	24			10th Good Friday		
	SAT	4	11	18	25					
MAY	SUN	31	3	10	17	24				
	MON		4	11	18	25		25th Ramazan	26, 27, 28 - Third - IA for BE students	26- 30 - Third - IA for MBA Students
	TUE		5	12	19	26				
	WED		6	13	20	27			7th Sports Day	
	THUR		7	14	21	28			09th College Day	
	FRI	1	8	15	22	29		1st May Day	16th Project Exhibition for VIII sem BE	
	SAT	2	9	16	23	30			23rd Graduation Day	
JUNE	SUN		7	14	21	28				
	MON	1	8	15	22	29			1st Dispatch of Third IA Report	2nd Dispatch of Third IA Report
	TUE	2	9	16	23	30			1st Last working day	1st Last working day for IV sem MBA
	WED	3	10	17	24	31				5th Last working day for II sem MBA
	THUR	4	11	18	25					
	FRI	5	12	19	26					
	SAT	6	13	20	27					
	Total Number of Working Days 80									
Note:	Attendence Requirement: According to VTU regulations, candidates have to put in a minimum attendance of 85 % in each course.									
	Wednesday & Thursday are reserved for placement activities/project work for VIII Sem BE.									
	03.06.20-13.06.20 Practical Examinations, 15.06.20-20.07.20 Theory Examination & 15.06.20-20.06.20 Vivo Voce for VIII sem BE students									
	Commencement of ODD Semister 27.07.20 for BE & MBA									

20/01/2020

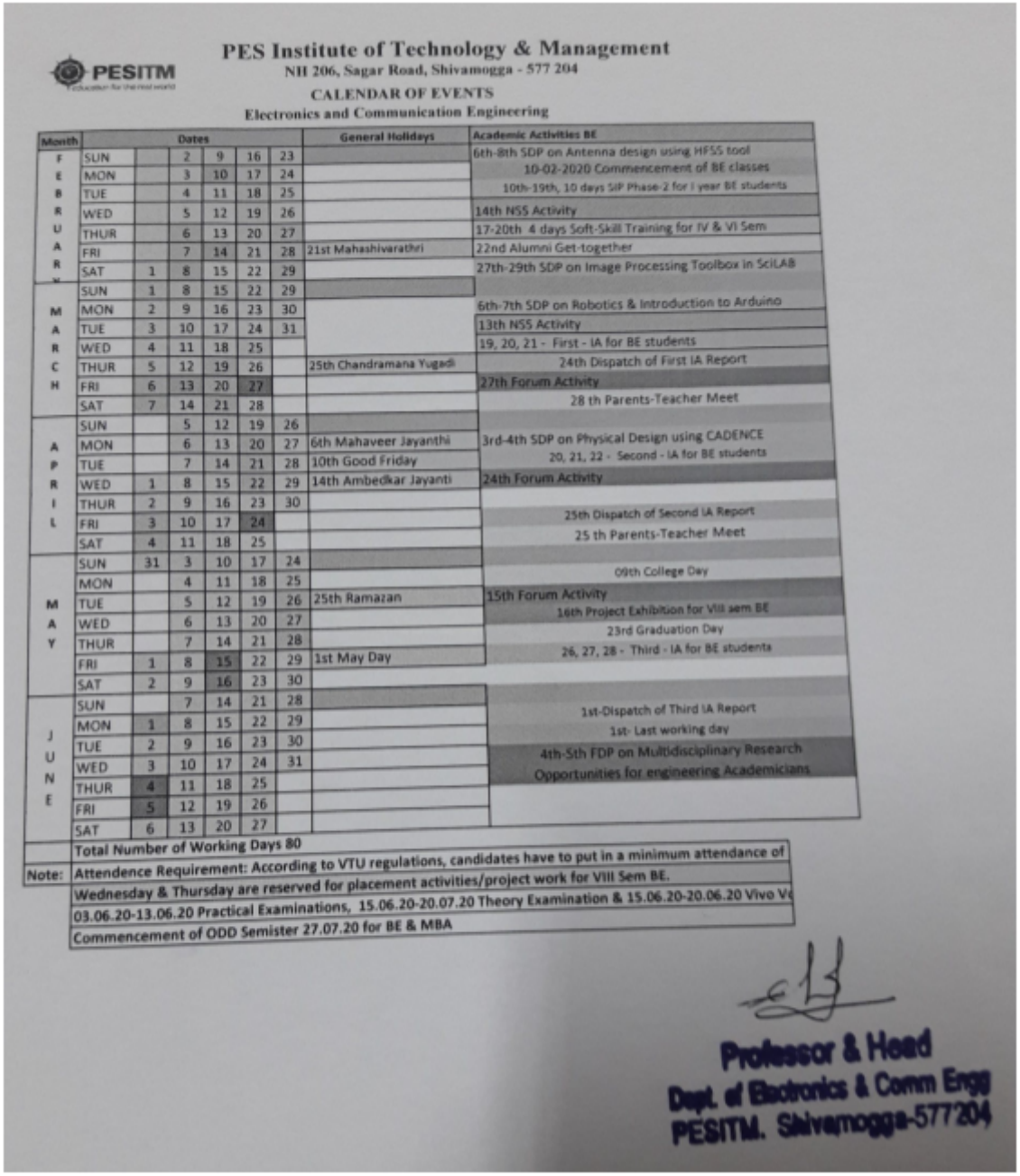
Dr.Chaithanya Kumar M V

Principal

Figure 2.2.1.c. Institute Calendar for Even Sem (Academic Year- 2019-20)

C. Department Calendar of events:

The department academic calendar of events is prepared in line with institute academic calendar & VTU calendar. Dates fixed for the various activities at department level. Course in charge uses the Calendar of Events (COE) to prepare Lesson plan, CO's, PO's are prepared by the subject-handling faculty members in consultation with the department subject experts/module coordinators before the commencement of the semester and is duly approved by the head of the department and COE is made available to the students. According to the lesson plan, work done is included in the academic file to ensure coverage of syllabus and duly monitored by the head of the department.



PES Institute of Technology & Management

NH 206, Sagar Road, Shivamogga - 577 204

CALENDAR OF EVENTS

Electronics and Communication Engineering

Month							General Holidays	Academic Activities BE
FEBRUARY	SUN		2	9	16	23		6th-8th SDP on Antenna design using HFSS tool
	MON		3	10	17	24		10-02-2020 Commencement of BE classes
	TUE		4	11	18	25		10th-19th, 10 days SIP Phase-2 for I year BE students
	WED		5	12	19	26		14th NSS Activity
	THUR		6	13	20	27		17-20th 4 days Soft-Skill Training for IV & VI Sem
	FRI		7	14	21	28	21st Mahashivarathri	22nd Alumni Get-together
	SAT	1	8	15	22	29		27th-29th SDP on Image Processing Toolbox in SciLAB
MARCH	SUN	1	8	15	22	29		
	MON	2	9	16	23	30		6th-7th SDP on Robotics & Introduction to Arduino
	TUE	3	10	17	24	31		13th NSS Activity
	WED	4	11	18	25			19, 20, 21 - First - IA for BE students
	THUR	5	12	19	26		25th Chandramana Yugadi	24th Dispatch of First IA Report
	FRI	6	13	20	27			27th Forum Activity
	SAT	7	14	21	28			28 th Parents-Teacher Meet
APRIL	SUN		5	12	19	26		
	MON		6	13	20	27	6th Mahaveer Jayanthi	3rd-4th SDP on Physical Design using CADENCE
	TUE		7	14	21	28	10th Good Friday	20, 21, 22 - Second - IA for BE students
	WED	1	8	15	22	29	14th Ambedkar Jayanti	24th Forum Activity
	THUR	2	9	16	23	30		
	FRI	3	10	17	24			25th Dispatch of Second IA Report
	SAT	4	11	18	25			25 th Parents-Teacher Meet
MAY	SUN	31	3	10	17	24		
	MON		4	11	18	25		09th College Day
	TUE		5	12	19	26	25th Ramazan	15th Forum Activity
	WED		6	13	20	27		16th Project Exhibition for VIII sem BE
	THUR		7	14	21	28		23rd Graduation Day
	FRI	1	8	15	22	29	1st May Day	26, 27, 28 - Third - IA for BE students
	SAT	2	9	16	23	30		
JUNE	SUN		7	14	21	28		
	MON	1	8	15	22	29		1st-Dispatch of Third IA Report
	TUE	2	9	16	23	30		1st- Last working day
	WED	3	10	17	24	31		4th-5th FDP on Multidisciplinary Research
	THUR	4	11	18	25			Opportunities for engineering Academicians
	FRI	5	12	19	26			
	SAT	6	13	20	27			

Total Number of Working Days 80

Note: Attendence Requirement: According to VTU regulations, candidates have to put in a minimum attendance of

Wednesday & Thursday are reserved for placement activities/project work for VIII Sem BE.

03.06.20-13.06.20 Practical Examinations, 15.06.20-20.07.20 Theory Examination & 15.06.20-20.06.20 Vivo V

Commencement of ODD Semister 27.07.20 for BE & MBA

Professor & Head
Dept. of Electronics & Comm Engg
PESITM, Shivamogga-577204

Figure 2.2.1.d. Department Academic Calendar Even Sem (Academic Year- 2019-20)

Course Delivery Methods

The classroom lectures are delivered by the faculty through various educational tools such as:

- Chalk and talk
- Power point presentation (PPT)

- Demonstration of Experiments
- Assignments & Quiz
- Laboratory Experiments
- Seminars

Brief Explanation of teaching methods are shown below

Teaching Method	Details
Chalk and talk	Classroom lectures conducted using basic and conventional method of disseminating information to the students as per the curriculum. Students are encouraged to think and analyze the engineering problems.
Power point presentation (PPT)	Ideas and concepts taught during lectures are reinforced in the minds of students with the aid of presentations and videos
Demonstration of Experiments	Demonstration help the students in analyzing and solving the engineering problems based on the theory during lectures. The demonstration sessions makes the concept clear to the students via practical participation.
Assignments & Quiz	Assignments make students self-reliant in solution of solving problems through understanding of theory through practice. Quiz is a brief assessment used to evaluate the understanding level of student.
Laboratory Experiments	It exposes the students on experimental and practical aspects of theory studied in classrooms. Lab-experiments help students in verifying the theory concepts by interpretation of results during lab sessions.
Seminars	Students are made to present a seminar during their academic year. The students are supposed to present a seminar on a particular topic by referring to various books, research articles & publications.

Methodologies to support weak students and encourage bright students:
Mentoring System:

The Mentors regularly conduct meetings regarding progress of their mentees and are responsible to identify students who scored less than 60% marks in their internals. Under the HOD direction, the students counselors evaluates the progress card of those students who score below 60% marks in 3 or more subjects and below 75% attendance are intimated to their parents. The respective subject teachers decide the course of action needed to improve the performance of academically weak students.

Guidelines to identify weak students

Identification Criteria	Actions taken

Students scoring less than 60% of marks in Internal Assessment	1. Student counselor follows their Progress regularly advising students about attending classes, making up classes missed, and getting additional help. 2. Intimating parents to counsel their wards. 3. Conduction of remedial classes.
Diploma students who entered with less basics of mathematics	Conduction of remedial classes
Students who fail in semester exams	Conduction of extra classes to those who failed in previous semester subjects.

Details regarding remedial classes can be obtained from respective subject course files

Guidelines to identify Bright students

Identification Criteria	Actions taken
Students promoted with First Class Distinction (FCD) in their Semester exams.	They are encouraged to take up mini projects and participate in inter college, National festivals, etc.
Top five students of each section	Book Coupons worth of Rs. 750 will be given

Sample copy of weak students and action taken for the same.

PES Institute of Technology and Management

IA-I MARKS ANALYSIS & ACTION TAKEN REPORT

Date: 12th Mar 2019

Course Name & Code : PRINCIPLES OF COMMUNICATION SYSTEMS- 17EC44
Program/Sem/Sec : B.Tech., ECE., IV-Sem., Sections-A
Academic Year : 2018-19

A. Analysis of Mid Marks:

Marks Secured	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
No. of Students	1						1	1		1	2	2	1	1	2	3	1	5	7	2	1
Marks Secured	21	22	23	24	25	26	27	28	29	30											
No. of Students	4	2	2	6		2	1														

Number of students Registered : 49

B. Encouraging Bright Students:

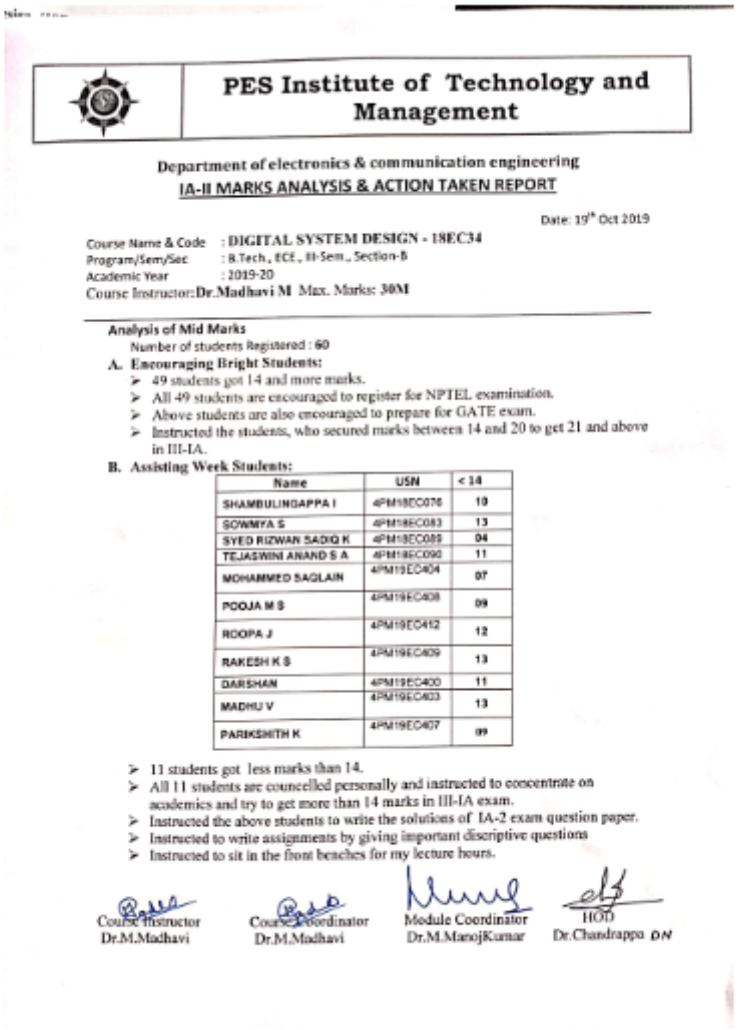
- 38 students got 14 and more marks.
- All 38 students are encouraged to register for NPTEL examination.
- Above students are also encouraged to prepare for GATE exam.
- Instructed the students, who secured marks between 14 and 20 to get 21 and above in II-IA.

C. Assisting Week Students:

Regd No.	086	105	EC002	EC003	EC009	EC014	EC018	EC035	EC037	EC042	EC047
Marks	11	0	11	12	6	AB	10	13	10	9	7

- 10 students got less marks than 14. And one Student Absent.
- All 11 students are councelled personally and instructed to concentrate on academics and try to get more than 14 marks in II-IA exam.
- Instructed the above students to write the solutions of IA-1 exam question paper.
- Instructed to write assignments by giving important discriptive questions
- Instructed to sit in the front benches for my lecture hours.
- Planning to take additional classes during leisure hours.

Course Instructor	Course Coordinator	Module Coordinator	HOD
Dr.M.Madhavi	Dr.M.Madhavi	Dr.M.Madhavi	Dr.Chandrappa D.N



PES Institute of Technology and Management

Department of electronics & communication engineering

IA-II MARKS ANALYSIS & ACTION TAKEN REPORT

Date: 19th Oct 2019

Course Name & Code : DIGITAL SYSTEM DESIGN - 18EC34
Program/Sem/Sec : B.Tech., ECE., III-Sem., Section-B
Academic Year : 2019-20
Course Instructor: Dr.Madhavi M Max. Marks: 30M

Analysis of Mid Marks

Number of students Registered : 60

A. Encouraging Bright Students:

- 49 students got 14 and more marks.
- All 49 students are encouraged to register for NPTEL examination.
- Above students are also encouraged to prepare for GATE exam.
- Instructed the students, who secured marks between 14 and 20 to get 21 and above in III-IA.

B. Assisting Week Students:

Name	USN	< 14
SHAMBULINGAPPA I	4PM18EC076	10
SOWMYA S	4PM18EC083	13
SYED RIZWAN SADIQ K	4PM18EC089	04
TEJASWINI ANAND S A	4PM18EC090	11
MOHAMMED SAQLAIN	4PM19EC404	07
POOJA M S	4PM19EC408	09
ROOPA J	4PM19EC412	12
RAKESH K S	4PM19EC409	13
DARSHAN	4PM19EC400	11
MADHU V	4PM19EC403	13
PARIKSHITH K	4PM19EC407	09

- 11 students got less marks than 14.
- All 11 students are councelled personally and instructed to concentrate on academics and try to get more than 14 marks in III-IA exam.
- Instructed the above students to write the solutions of IA-2 exam question paper.
- Instructed to write assignments by giving important discriptive questions
- Instructed to sit in the front benches for my lecture hours.

Course Instructor Dr.M.Madhavi | Course Coordinator Dr.M.Madhavi | Module Coordinator Dr.M.ManojKumar | HOD Dr.Chandrappa DN

Figure 2.2.1.e. Sample copy of IA mark Analysis & action taken for bright and weak students

Quality of classroom teaching

The following teaching methods are adopted by the faculty:

- Well-structured lesson plans are prepared and executed for all theory and practical courses, reviewed by reviewer and HOD
- LCD Projectors are used as teaching aids
- National Programme on Technology Enhanced Learning (NPTEL) videos and other video resources, internet sources for effective teaching
- Faculties are encouraged to register for NPTEL advanced courses and get online certifications.

Maintenance of Course files

A course file is prepared by the concerned faculty. The course file includes the following documents

- **Calendar of events:** It includes university, college and department calendar of events.

- **Time table:** Time table includes the clear schedule of the subjects and labs allotted to the faculty.
- **Syllabus copy attested by HOD:** After the subject allotment, attested syllabus copy will be issued to the concerned faculties
- **Previous university question papers:** The faculty members will maintain the photo copy of the previous year question papers in their course file
- **Lesson plan:** Lesson plan is prepared for each lecture hour in the teaching plan by the course coordinator before the commencement of the semester, which will be reviewed and approved by the head of the department.
- **Question Bank:** Question banks are prepared in line with the university question papers
- **Tutorial:** Tutorial contains module wise questions which will be discussed before the Internal Assessment
- **Internal question papers with scheme:** Test question papers with scheme prepared by the course coordinator, reviewed by the reviewer and approved by HOD.
- **Lecture Notes:** Course coordinator prepares the notes for the subject allocated.
- **External Question paper**
- **CO-PO Attainment**

Conduction of Experiments

1. **Laboratory Conduction**

- Lab in charge of respective lab will prepare the manuals, material requirements, conduction of experiments and cycle of experiments before commencement of semester
- The Laboratories are conducted in sessions of 3 hours. In each session the faculty explains the procedure, theory, calculations and applications of the experiment
- The students will write the necessary details in the observation book, and then conducts the experiment, tabulate the readings, calculate and evaluate the results
- The calculated results are represented in the form of graphs and documented in the record book by the students, and are evaluated by concerned faculty.
- The experiments are evaluated by the faculties according to lab rubrics

B. Continuous Assessment in laboratory

The evaluation is made based on submission of laboratory observations, records, conduction, and viva-voce of the student. Internal test is conducted at the end of the semester and evaluated as per Laboratory Rubrics

Rubrics for Laboratory

Rubrics Showing Internal Evaluation of Laboratory

Internal Evaluation of Lab

Day to Day Work (DDW)	Experimentation (Exp)	Record (Rec)	Total
05	25	10	40

Assessment component	Excellent	Good	Average
DDW-Professional Behaviour(05M)	Role, Involvement, interaction and other activities related to lab work is appreciable	Student is moderately involved in execution of lab experiments	Involvement in execution of lab experiments is limited
Exp-Experimentation (8M)	Experiment/Program is executed with good skills	Experiment/Program is executed with moderate skills	Experiment/Program is executed with minor corrections
Rec-Record(05M)	Information relevant to lab was recorded properly and neatly	Information relevant to lab was recorded but not organized properly	Information relevant to lab was recorded with few errors
Exp-Viva-Voce(2M)	Student is highly knowledgeable, communicative and has analytical attitude	Student is knowledgeable and communicative	Student knowledge levels need to be improved

External Evaluation of Lab

Write up (W)	Experimentation (Exp)	Viva-Voce (VV)	Total
15	70	15	100

Rubric Showing External Evaluation of Laboratory

Assessment component	Excellent	Good	Average
W-Write up (12M)	Description of experimental design is clear, concise and easy to understand	Description of experimental design is clear, concise and easy to understand with few exceptions	Description of experimental design is adequate and needs to be improved
Exp- Experimentation (28M)	Experiment/Program is executed with good skills	Experiment/Program is executed with moderate skills	Experiment/Program is executed with minor corrections
Exp-Results (28M)	Complete Results are presented	Most of the results are presented	Results are not clearly presented

VV-Viva-Voce (12M)	Student is highly knowledgeable, communicative and has analytical attitude	Student is knowledgeable and communicative	Student knowledge levels need to be improved

2.2.2 Quality of internal semester Question papers, Assignments and Evaluation (20)

Institute Marks : 18.00

The following are the steps followed for the Quality of Internal semester Question paper, Assignment & Evaluation

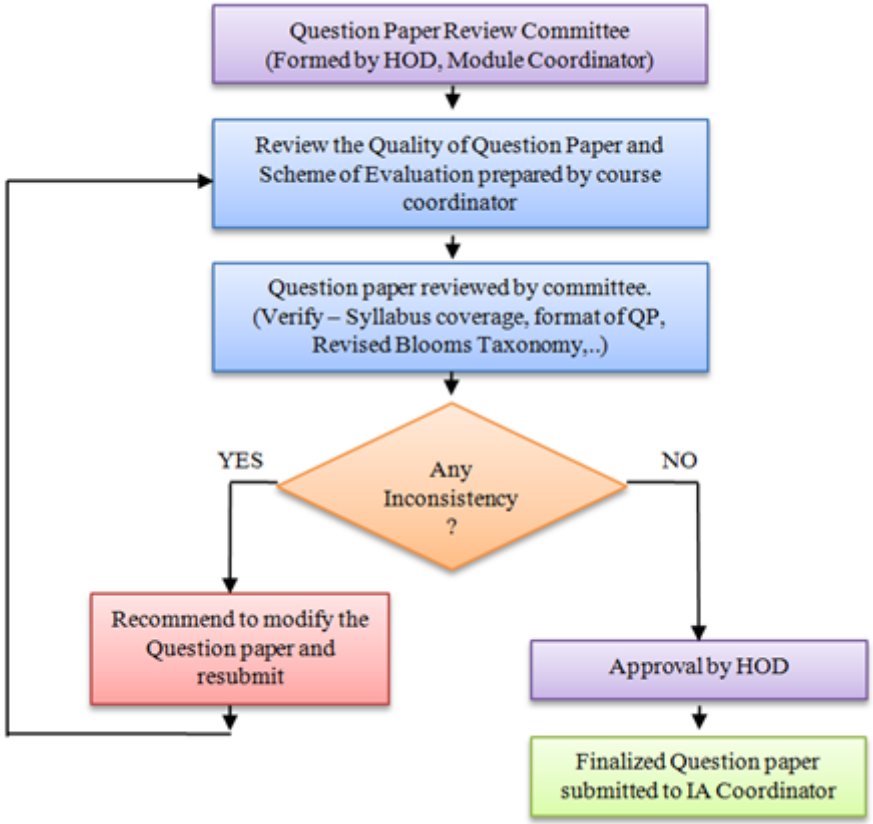


Figure 2.2.2.a. Flow diagram for Quality of Internal semester Question paper

- At the start of every semester, internal question paper review committee has been formed by HOD, Module coordinator .
- Committee consists of chairman (senior professor) & members.
- Internal question paper format is provided by committee.
- Prior to the internal assessment question paper from each subject has been collected & Scrutinized by the review committee. If any revisions to be made, it is intimidated to respective faculty & the revised copy is checked.
- After the scrutiny by the review committee, the finalized Question paper is approved by HOD & considered for internal assessment.

- Finalized QP is submitted to IA coordinator for the conduction of IA.
- The same process is retained for the academic year.

Question Paper Review Committee for academic year 2019-20
Purpose: To develop and improve the quality of the question papers prepared for periodical tests semester wise.
Roles & Responsibilities:

- Conducting periodical meetings and review IA question papers for periodical tests.
- Providing, guidelines, remedial measures etc. for the improvement of the system.

Following faculty members are identified as question paper review committee members for the academic year**.**

Chairman :	**Designation**	**Teaching Experience**
Dr. Guruva Reddy A	Professor	19 Years
Members:		
Mr. Nithin H V	Assistant Professor	11 Years
Mr. Hanumanthappa Magalada	Assistant Professor	9 Years
Mrs. Rashmi T S	Assistant Professor	8 years

Question Paper Review Committee for academic year 2018-19
Purpose: To develop and improve the quality of the question papers prepared for periodical tests semester wise.
Roles & Responsibilities:

- Conducting periodical meetings and review IA question papers for periodical tests.
- Providing, guidelines, remedial measures etc. for the improvement of the system.

Following faculty members are identified as question paper review committee members for the academic year **2018-19 (Odd semester).**

Chairman:	**Designation**	**Experience**
Mr. Hanumanthappa Magalada	Assistant Professor	8 Years
Members :		
Mr. Nithin H V	Assistant Professor	10 years
Mr. Mahendra Naik	Assistant Professor	7 years
Mrs. Rashmi T S	Assistant Professor	7 years

Figure 2.2.2.b. gives the sample copy of reviewed question paper and approved by module coordinator and HOD.

PES Institute of Technology and Management

I - Internal Assessment Test

Subject & Code: **Digital System Design (18EC34)** Max. Marks: **30M**
Semester: III Date: 12-09-19
Course Instructor: **Dr.MadhaviM &Yogeesha G**

				Level	COs
		Part 1			
1	a.	**Write** the function f(x,y,z) = x'y+z in canonical minterm&maxterm form	5M	L1	CO1
	b.	f(a,b,c,d) = $\sum_m$(1,2,3,5,9,12,14,15) + $\sum_d$(4,8,11) **Use** Q-M method to simplify the given function	10M	L2	CO1
		OR			
2	a.	f(a,b,c,d) = $\prod_M$(0,2,3,4,5,12,13) + $\prod_d$(8,10) **Use** Q-M method to simplify the given function & also list prime implicants.	10M	L2	CO1
	b.	**Express** the function f(a,b,c,d) = a'b+cd' in canonical minterm&maxterm form	5M	L1	CO1
		Part 2			
3	a.	**Define** combinational logic circuits with examples? and also **Simplify** using K map f(a,b,c,d) = $\sum_m$(0,2,5,7,8,10,13,15) + $\sum_d$(1,4,11,14)	8M	L1/L2	CO1
	b.	**Define** decoder. **Implement** following multiple functions using IC74138 & external gates. F1(a,b,c)= $\sum_m$(1,4,5,7), F2(a,b,c)= $\sum_m$(2,3,6,7)	7M	L1/L3	CO2
		OR			
4	a.	**Implement** Full Adder using Decoder	6M	L3	CO2
	b.	Define essential prime implicates. **Use** K map & simplify the given function f(a,b,c,d) = $\prod_M$(1,2,34,9,10) + $\prod_d$(0,14,15)	9M	L1/L2	CO1

Course Instructor	Course Coordinator	Module Coordinator	HOD
Dr.M.Madhavi	Dr.M.Madhavi	Dr.M.ManojKumar	Dr.Chandrappa DN

Figure 2.2.2.b. Sample copy of reviewed Question paper

Evaluation Process

The process diagram indicated in the figure 2.2.2.c, gives the duty allotment and evaluation process for the internal assessment.

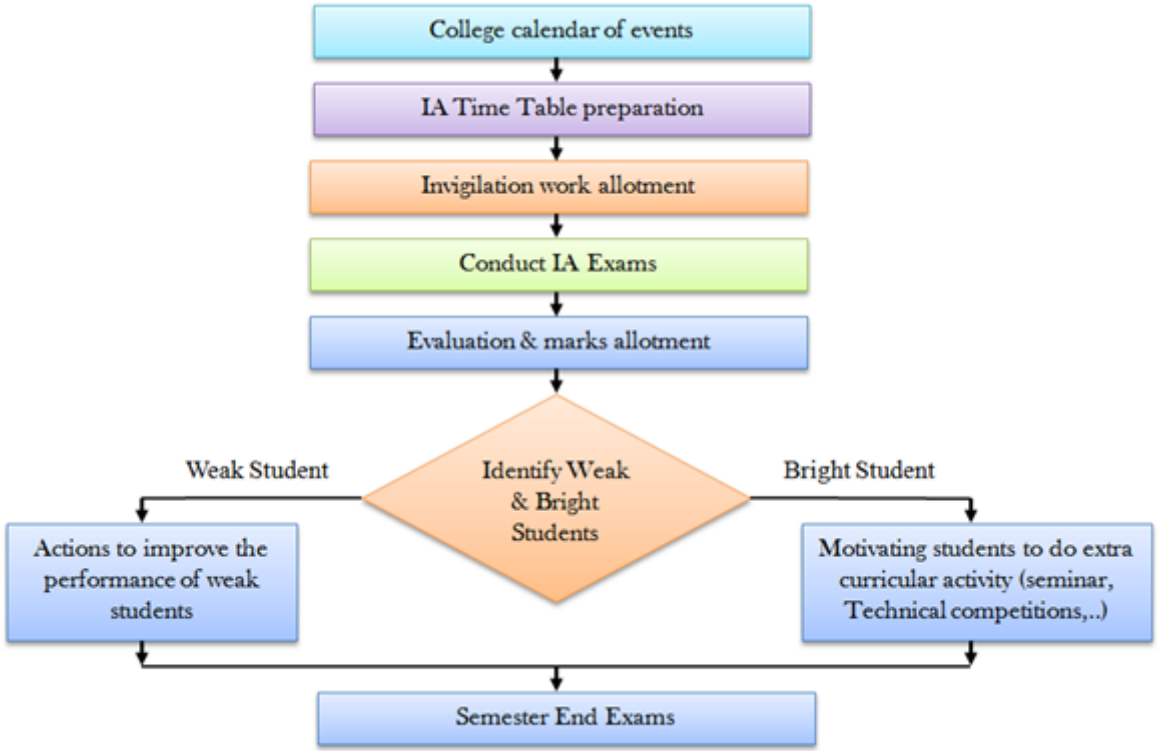


Figure 2.2.2.c. Process for Evaluation of Internal Assessment

- After the IA exams, the course coordinator will evaluate the IA booklets as per the approved scheme of evaluation and marks obtained by the student are displayed.
- Course coordinator identifies the weak & bright student for the subject and necessary action is taken to boost the performance of the student in upcoming internal assessment and semester end exams.
- A list is weak and bright student is brought to the notice of class teacher, module coordinator & HOD for continuous monitoring.

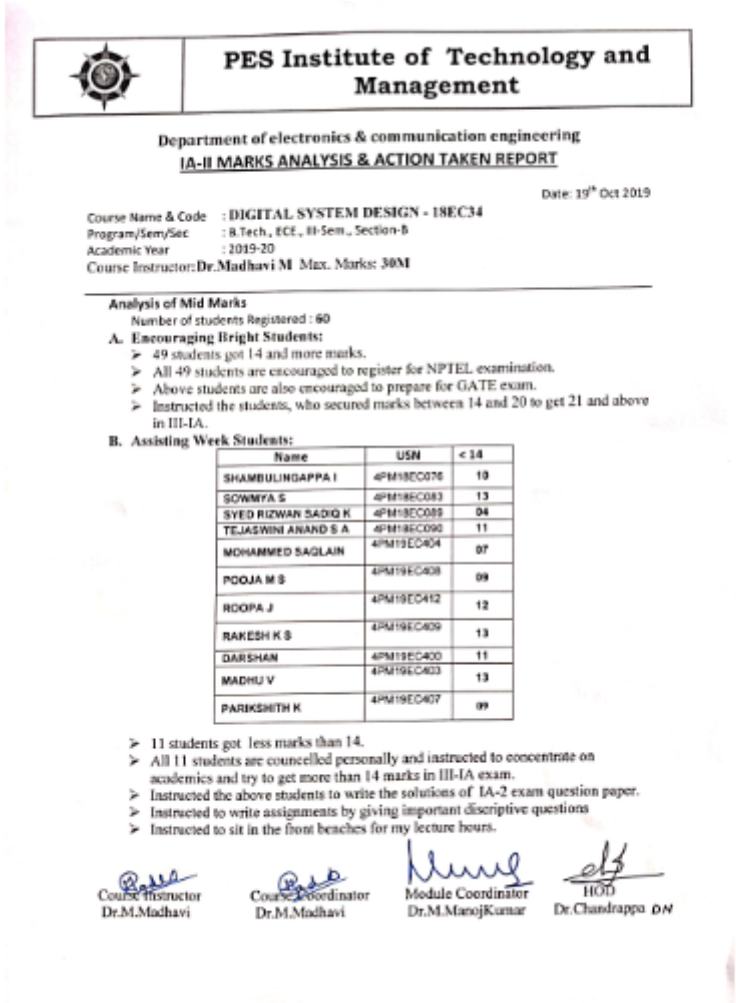
Assignments / Seminars/ Quiz

- Assignments are given in the course and it will be evaluated by the respective course faculty
- Seminars and quiz are conducted by the respective course faculty.
- Details regarding the activity can be obtained from respective subject course files.

Evaluation

- The faculties after every internal assessment explain the solution of the questions in the class which will enable students to perform well in the examination

- The average of the marks obtained from highest of two tests out of three is considered as final internal assessment marks
- Assignments/ seminars/ quiz are used as tool for practice and evaluation of Internal Assessment.



PES Institute of Technology and Management

Department of electronics & communication engineering

IA-II MARKS ANALYSIS & ACTION TAKEN REPORT

Date: 19th Oct 2019

Course Name & Code : DIGITAL SYSTEM DESIGN - 18EC34
Program/Sem/Sec : B.Tech., ECE., III-Sem., Section-B
Academic Year : 2019-20
Course Instructor: Dr.Madhavi M Max. Marks: 30M

Analysis of Mid Marks

Number of students Registered : 60

A. Encouraging Bright Students:

- 49 students got 14 and more marks.
- All 49 students are encouraged to register for NPTEL examination.
- Above students are also encouraged to prepare for GATE exam.
- Instructed the students, who secured marks between 14 and 20 to get 21 and above in III-IA.

B. Assisting Week Students:

Name	USN	< 14
SHAMBULINGAPPA I	4PM18EC076	10
SOWMYA S	4PM18EC083	13
SYED RIZWAN SADIQ K	4PM18EC089	04
TEJASWINI ANAND S A	4PM18EC090	11
MOHAMMED SAQLAIN	4PM19EC404	07
POOJA M S	4PM19EC408	09
ROOPA J	4PM19EC412	12
RAKESH K S	4PM19EC409	13
DARSHAN	4PM19EC400	11
MADHU V	4PM19EC403	13
PARIKSHITH K	4PM19EC407	09

- 11 students got less marks than 14.
- All 11 students are councelled personally and instructed to concentrate on academics and try to get more than 14 marks in III-IA exam.
- Instructed the above students to write the solutions of IA-2 exam question paper.
- Instructed to write assignments by giving important discriptive questions
- Instructed to sit in the front benches for my lecture hours.

Course Instructor Dr.M.Madhavi | Course Coordinator Dr.M.Madhavi | Module Coordinator Dr.M.ManojKumar | HOD Dr.Chandrappa DN

Figure 2.2.2.d. Evaluation of Internal Assessment & marks analysis with ATR

2.2.3 Quality of student projects (25)

Institute Marks : 20.00

The Process adopted for monitoring quality of student projects is depicted in figure 2.2.3.a.

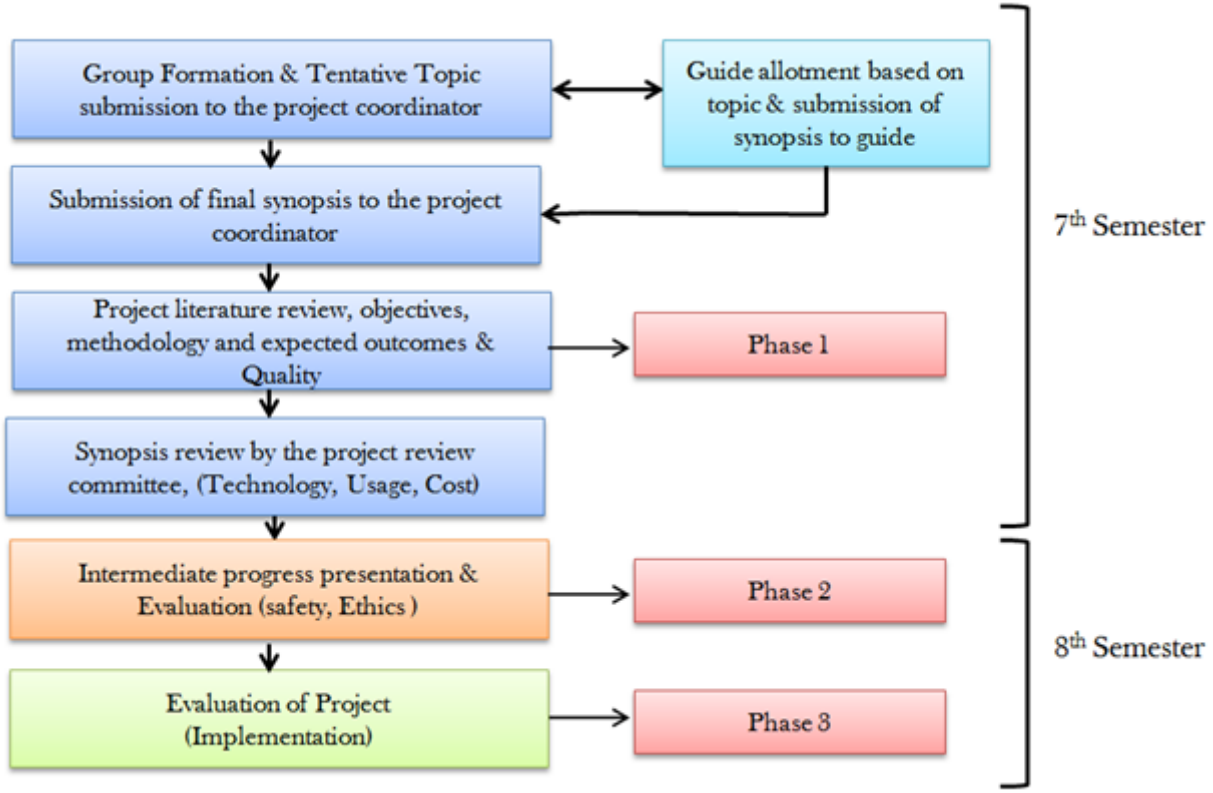


Figure 2.2.3.a. Process flow for quality of student project

Initiatives for quality of student projects

The initiatives taken for quality of students projects are mentioned below

- Selection of quality projects to meet the social and environmental needs.
- Proper attention is given to both the technical contents and to the organization of the report, clarity in the presentation of work carried out.
- Implementation details, Safety and ethics are verified in advance.
- Format & guidelines are provided to students for the smooth conduction.
- Impact analysis made.

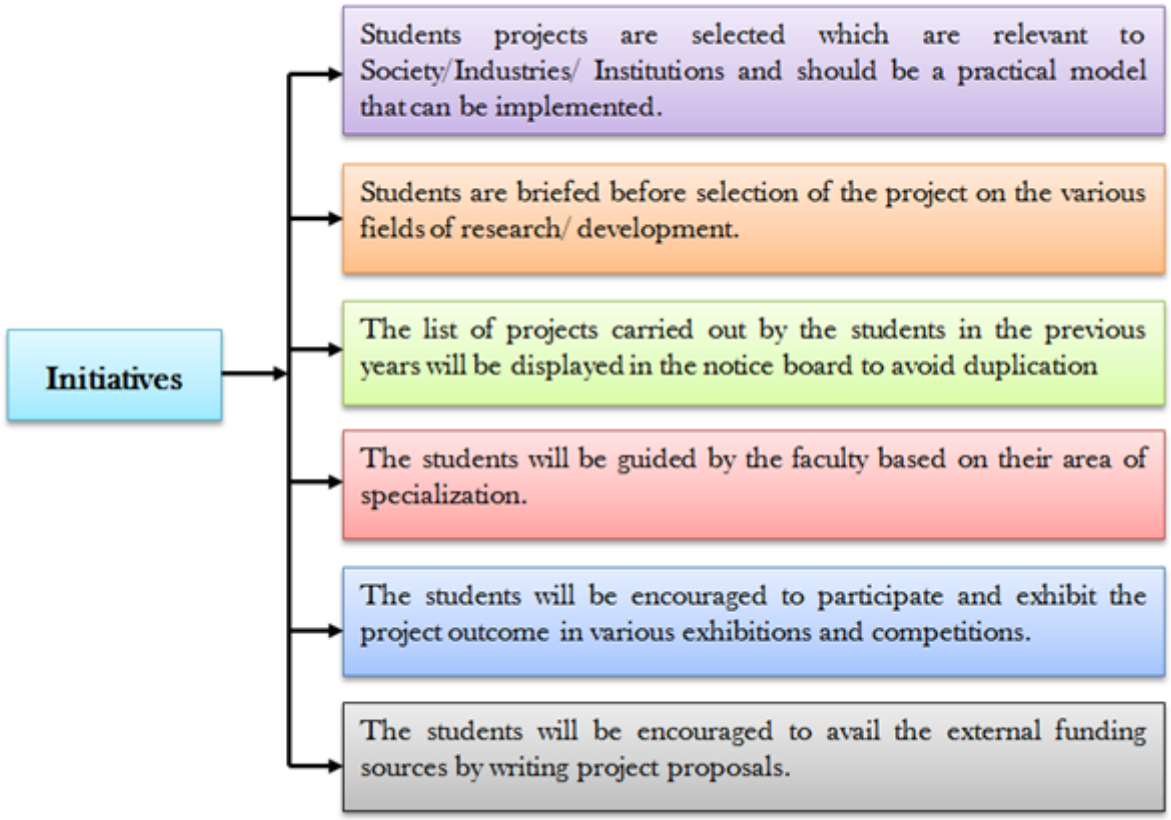


Figure 2.2.3.b. Initiatives for quality of student project

The following are the course outcomes identified for the project work.

CO1: Identify the problems considering current issues.
CO2: Design a methodology for finding the solution of a problem.
CO3: Develop the solution using modern tool.
CO4: Document the report and present the work effectively.

Rubrics for Project work

With the help of rubrics the assessment of the project work is carried out. The details of the same is elaborated below

Table2.2.3.a. Marks distribution and Internal assessment of project

Review Number	Day to Day work (DDW)	Presentation (P)	Viva-Voce (VV)	Total
1.	10	30	10	50
2.	10	30	10	50
Total	20	60	20	100

Rubrics showing first internal review of project work

Assessment Component	Excellent	Good	Average
Project work-Literature Survey(10M)	Collection of information from several number of sources	Collection of information from limited number of sources	Collection of information from single source
Problem Formulation & Project Description(10M)	Problem formulated is majorly related to the contemporary issues.	Problem formulated is moderately related to the contemporary issues.	Problem formulated is minorly related to the contemporary issues.
Communication Skills(10M)	Information is communicated clearly through good vocabulary and grammar	Information is communicated through minor errors in vocabulary and grammar	Information is communicated through major errors in vocabulary and grammar
VV-Presentation Viva Voce(10M)	Actively engaged in sharing of information with peers and teachers	Student is moderate in sharing of information with peers and teachers	Student is passive in sharing of information with peers and teachers
DDW-Professional Behaviour (10M)	Role, involvement, interaction and other activities related to the project work is appreciable.	Student ismoderately involved in project related activities.	Involvement in the project related activities is limited.

Rubrics showing the second internal review of project work

Assessment component	Excellent	Good	Average
Project work Description of Methodology (10M)	Description of methodology is clear, concise and easy to understand	Description of methodology is clear, concise and easy to understand with few exceptions	Description of methodology is adequate and needs to be improved in few aspects
Implementation of Project Work (10M)	Project work is implemented through self-motivation and usage of modern tool	Project work is implemented completely and effectively	Project work is implemented with few exceptions
Documentation (10M)	Major contribution in preparing the project document	Moderate contribution in preparing the project document	Minor contribution in preparing the project document
VV-Presentation Viva-Voce (10M)	Actively engaged in sharing of information with peers and teachers	Student is moderate in sharing of information with peers and teachers	Student is passive in sharing of information with peers and teachers
DDW-Team Work(10M)	Student understands the need of team work and exhibit the skills of good project management	Student understands the need of team work but does not exhibit the skills of good project management	Student level of understanding to work in teams has to be improved

Rubrics for external evaluation of main project

Assessment Component	Excellent	Good	Average
Professional behaviour (15M)	Role, Involvement, interaction and other activities related to project work is appreciable	Student is moderately involved in project related activities	Involvement in project related activities is limited
Project management(15M)	Student understands the need of team work and exhibit the skills of good project management	Student understands the need of team work but does not exhibit the skills of good project management	Student level of understanding to work in teams has to be improved
Implementation of Project (20M)	Project work is implemented through self motivation and usage of modern tools	Implemented completely and effectively	Implemented the project work with few exceptions
Documentation (20M)	The information was relevant and clearly documented	The information was documented with few errors	The information was relevant but not organized properly
Presentation(20M)	Actively involved in sharing of information with excellent communication skills	Actively involved in sharing of information with good communication skills	Actively involved in sharing of information with moderate communication skills
Viva-voce(10M)	Student is Highly Knowledgeable	Student is Knowledgeable	Student Knowledge level need to be improved

Table 2.2.3.b. Quality projects – CAYm1 - 2018-19 Academic year

S. No.	Title of the Project	Relevance with POs and PSOs	
		PO's	PSOs
1	Green House Using IOT	PO3,PO7,PO6,PO9,	PSO2
2	Design &Simulation Of Probe Fed Compact Patch Antenna With Cross Polarization Suppression For ISM Band Application	PO3,PO7,PO6,PO9,	PSO2
3	Aquatic Robot Design For Water Pollutants Monitoring Based On ARM &Raspberry Pi	PO3, PO9, PO5	PSO2
4	Development Of Flexible Verification Environment For AMBA-APB	PO3,PO7,PO6,PO9,	PSO1, PSO2

Impact analysis of Projects

- New innovative ideas are evolved.
- Skill improvement via practical approach.
- Knowledge on various aspects of project management, teamwork, ethics and communication skills are developed.
- Confidence level of the students is boosted.
- Implementation and deployment of the project for social benefits.
- Improvement in document preparation and presentation.

2.2.4 Initiative related to industry interaction (15)

Institute Marks : 10.00

Sl. No.	Academic Year	Name of the resource Person	Industry	Topic/lecture	PO-PSO Relevance
1	CAYm1 2018-19	Mr. Vimalan J,	Assistant Director(E)/ HOO, IBES, All India Radio, Bhadravathi	Satellite Communication	PO3,PSO2
2		Mr. Sunil	Customer support engineer Advanced Electronic Systems, Bangalore	Digital Storage Oscilloscope	PO5,PSO1
3		Mr.Naveen H S	Proprietor of K S Embedded Innovations	Embedded Systems	PO5,PSO2

4	CAYm2 2017-18	Mr. Raghavendra	Customer support engineer Advanced Electronic Systems, Bangalore	ARM Controller	PO5, PSO1
5	CAYm3 2016-17	Mr. Raghu Manohar A	Design Engineer Sarvasya Semiconductors Belagavi	Real Time Image Processing	PO3,PO5,PSO2

Table B.2.2.4.1: Course Delivery by Industry/ academic Experts

Academic Year	Semester	Name of the Industry	Date	No. of students visited
2018-19	8th	ACE Components and BSNL RTTC	13th& 14th April 2018	60
2017-18	8th	Rotary Wing Research and Design Center, HAL, Bengaluru	6th May 2017	64

Table 2.2.4.2. Industrial visits

mpact Analysis of Industrial visit

- Students are exposed to practical experience of the concepts studied in the classroom and realized the practical importance of the subjects.
- Industrial visit creates more interest in the subjects.
- Students are inspired to do hard work and get placed in such industries.
- Students were exposed to the industry standards and workplace culture.

2.2.5 Initiative related to industry internship/summer training (15)

Institute Marks : 12.00

List of Industries where students were undergone for Internships

The students have gone through internships in industries/ organizations, the list of which is depicted in Table

Academic Year 2018-19

SL No.	Student name	USN	Name of the Company
1	Tejaswini A	4PM17EC422	BHEL Ltd, Malleswaram Bengaluru – 560012
2	Soumya M	4PM17EC419	
3	Pooja R C	4PM17EC411	
4	Arpitha L	4PM16EC010	
5	Chaithra K C	4PM16EC015	

6	DeepaHondad	4PM16EC018	
7	Dundubi R	4PM16EC021	
8	Pallavi M P	4PM16EC050	
9	Neha D G	4PM16EC042	
10	Aishwarya C H	4PM16EC002	
11	Aishwarya S K	4PM16EC004	Tech Fortune Subbana garden, Vijaya Nagar, Bengaluru - 560040
12	Asha G M	4PM16EC012	
13	Kavya G C	4PM16EC033	
14	SyedaUzmaFathima	4PM15EC093	
15	Kavya B	4PM17EC405	
16	SubiyaKouser	4PM16EC084	
17	NidaKhanum	4PM16EC044	
18	Chaithra C	4PM16EC014	BEL, Jalahalli P Bangalore- 560013
19	Likitha R	4PM16EC037	
20	Priyanka U	4PM16EC058	
21	Priya G S	4PM16EC056	
22	Rahul R Bilagi	4PM16EC059	
23	Sushmitha S M	4PM16EC090	
24	Sowmya O G	4PM17EC420	
25	Ravinandan S Rayabagi	4PM16EC066	
26	Sharath S	4PM14EE032	HAL,Bengaluru
27	Someshwara L	4PM17EC418	
28	Shreyas G	4PM16EC079	
29	RakeshK	4PM17EC414	
30	Ranganatha N	4PM17EC415	
31	Shreedevi H Patil	4PM16EC078	
32	Ranjitha R	4PM16EC063	
33	Soumya U S	4PM16EC082	
34	Sindhu H S	4PM16EC081	
35	Supriya S V	4PM16EC088	
36	Sukhesh B Y	4PM14EC094	

37	Ganavi C G	4PM16EC022	BHEL Electronics Division, Near Mysore Road NayandaHalli, Benagaluru, Karnataka – 560026.
38	Anusha B G	4PM16EC007	
39	Neha P	4PM15EC051	
40	AnushreeKamath	4PM15EC007	
41	AngelPriya	4PM15EC006	
42	Naveen Kumar	4PM16EC104	
43	Madhu S Bhat.	4PM15EC041	Taranga Technologies, 1st cross, Ashok Nagar, Tumkur - 572102
44	Deekshith B	4PM16EC017	
45	Guruprasad D	4PM16EC025	
46	Bharath M	4PM16EC013	
47	Halaswamy S R	4PM16EC026	
48	Bharathkumar H S	4PM17EC403	
49	Megharajachari B	4PM15EC045	
50	Nihar K K	4PM16EC045	
51	Arun N M	4PM16EC011	
52	Nagesh L	4PM16EC414	
53	Gourish S S	4PM16EC405	
54	Niharika B H	4PM16EC046	BEL, Corporate office, Outer Ring Road, Nagavara, Bangalore -560045
55	Harshitha S	4PM16EC030	
56	Lavanya A	4PM16EC036	
57	Aishwarya S K	4PM16EC004	
58	Pallavi M P	4PM16EC050	Regional Remote Sensing center-South ISITE Campus, Marthahalli Outer ring road, Bangalore -560037
59	Neha D G	4PM16EC042	
60	Kavya G C	4PM16EC033	
61	Rachana H Gowda	4PM15EC072	BSNL RTTC Mysore Near, Kamakshi Hospital Road, Kuvempunagara North, Mysore -570009
62	Swapna D Shastry	4PM17EC041	
63	Priyadarshini N B	4PM16EC057	
64	Akshay Kumar M	4PM16EC005	Infidata Technologies Yelahanka Newtown, Bengaluru - 560064
65	Ganesha N	4PM16EC023	
66	Pallavi M P	4PM16EC050	

67	Sunil Kumar S	4PM14EC095	
68	SharathBabu T D	4PM17EC417	
69	Aishwarya C H	4PM16EC002	
70	Dundubi	4PM16EC021	
71	Neha D G	4PM16EC042	
72	Ranjitha S	4PM16EC064	Division ,Hindustan Aeronautics Ltd Bangalore Complex Bangalore
73	SaiKousalya D	4PM16EC072	
74	Varsha H G	4PM16EC097	
75	Pooja P	4PM16EC053	
76	Nagashree V S	4PM16EC041	
77	Shilpa N	4PM16EC076	Nano Source Technology Benniganahalli, Bengaluru - 560043
78	Trupthi	4PM16EC094	Textronics shimoga
79	Harshitha B	4PM16EC028	
80	Keerthana R	4PM16EC035	
81	Suparna M	4PM16EC087	
82	Shubhra J	4PM16EC080	
83	Suma H V	4PM16EC086	
84	Madhushree S Shet	4PM16EC039	
85	Uday D J	4PM16EC095	OMGVH Electronics Inc, Khata No:41/2,Ground floor, Begur-hobli, behind canara bank, Bengaluru- 560068

Table2.2.5.a: Internship details

mpact Analysis of Internship

- Students were exposed to the industry standards and workplace culture.
- Students are exposed to practical experience of the concepts studied in the classroom with practical implementation of the subjects studied.
- Internship activity has creates more interest in the subjects and selection of quality projects.
- Students are inspired to do hard work and get placed in such companies.

3 COURSE OUTCOMES AND PROGRAM OUTCOMES (120) Total Marks 99.00

Define the Program specific outcomes

3.1 Establish the correlation between the courses and the Program Outcomes (POs) and Program Specific Outcomes (PSOs) (20) Total Marks 18.00

:

PSO1	Analyze and design analog & digital circuits or systems for a given specification and function.
PSO2	Implement functional blocks of hardware-software co-designs for signal processing and communication applications

3.1.1 Course Outcomes(COs)(SAR should include course outcomes of one course from each semester of study, however, should be prepared for all courses and made available as evidence, if asked) (5) Institute Marks : 4.00

Note : Number of Outcomes for a Course is expected to be around 6.

Course Name :	**C2 05**	**Course Year :**	**2016-2017**

Items	**2019-20**
C2 05.1	Interpret the different errors of measuring instruments and calculate them
C2 05.2	Demonstrate the operation of ammeters, voltmeters and multimeters
C2 05.3	Illustrate functional concepts and operation of digital voltmeters and instruments to measure various parameters
C2 05.4	Examine functional concepts and operation of various analog measuring instruments to measure output power, field strength, impedance, stroboscopic speed, in/out of phase, Q-of coils, insulation resistance and ph
C2 05.5	Categorize functioning and types of oscilloscopes, signal generators and transducers

C2 05.6	Utilize ac and dc bridges for passive components and frequency measurements

Course Name :	**C2 13**	**Course Year :**	**2016-2017**

Items	**2019-20**
C2 13.1	Determine the performance of analog modulation schemes in time and frequency domains
C2 13.2	Determine the performance of systems for generation and detection of modulated analog signals
C2 13.3	Classify analog signals in time domain as random processes and in frequency domain using Fourier transforms
C2 13.4	Analyze the influence of Channel and analog modulated signals
C2 13.5	Determine the performance of analog communication systems
C2 13.6	Understand the characteristics of pulse amplitude modulation, pulse position modulation and pulse code modulation systems

Course Name :	**C3 02**	**Course Year :**	**2017-2018**

Items	**2019-20**
C3 02.1	Compute the DFT of various signals using its properties and linear filtering of two sequences. Compute the computational complexity of DFT
C3 02.2	Apply fast and efficient algorithms such as Radix-2, Chirp Z and Goertzel for computing DFT given sequence and compute the computational complexity
C3 02.3	Design of analog and digital filters infinite impulse response Butterworth and Chebyshev filters
C3 02.4	Realize a digital IIR filter by direct, cascade, parallel and ladder methods of realization and FIR filter by direct, linear phase, frequency sampling and lattice methods

C3 02.5	Design FIR filters by use of window function

Course Name :	C3 10	Course Year :	2017-2018

Items	2019-20
C3 10.1	Describe the architectural features and instructions of 32 bit microcontroller ARM Cortex M3
C3 10.2	Apply the knowledge gained for Programming ARM Cortex M3 for different applications
C3 10.3	Understand the basic hardware components and their selection method based on the characteristics and attributes of an embedded system
C3 10.4	Develop the hardware /software co-design and firmware design approaches
C3 10.5	Explain the need of real time operating system for embedded system applications

Course Name :	C4 01	Course Year :	2018-2019

Items	2019-20
C4 01.1	Describe the use and advantages of microwave transmission
C4 01.2	Analyze various parameters related to microwave transmission lines and waveguides
C4 01.3	Identify microwave devices for several applications
C4 01.4	Analyze various antenna parameters necessary for building an RF system
C4 01.5	Recommend various antenna configurations according to the applications

Course Name :	C4 10	Course Year :	2018-2019

Items	2019-20
C4 10.1	Classify and explain the working of optical fiber with different modes of signal propagation
C4 10.2	Describe the transmission characteristics and losses in optical fiber
C4 10.3	Explain the construction and working principle of optical connectors, multiplexers and amplifiers
C4 10.4	Describe the constructional features and the characteristics of optical sources and detectors
C4 10.5	Illustrate the networking aspects of optical fiber and describe various standards associated with it

3.1.2 CO-POmatrices of courses selected in 3.1.1(Six matrices to be mentioned; one per semester from 3rd to 8th semester) (5)

Institute Marks : 4.00

1 . course name : C205

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C205.1	2	2	1	2	-	-	-	-	-	-	-	1
C205.2	2	2	2	-	-	-	-	-	-	-	-	1
C205.3	2	2	1	-	2	-	-	-	-	-	-	1
C205.4	2	2	2	-	2	-	-	-	-	-	-	1
C205.5	2	2	2	-	3	-	-	-	-	-	-	-
C205.6	3	3	3	-	-	-	-	-	-	-	-	1
Average	**2.67**	**2.33**	**1.83**	**2.00**	**2.33**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**1.00**

2 . course name : C213

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12

C213.1	3	3	3	2	-	-	-	-	-	-	-	-
C213.2	3	3	2	2	3	-	-	-	-	-	-	-
C213.3	2	2	3	3	-	-	-	-	-	-	-	-
C213.4	2	2	2	-	2	-	-	-	-	-	-	-
C213.5	2	2	2	3	-	-	-	-	-	-	-	-
C213.6	-	-	2	3	-	-	-	-	-	-	-	-
Average	**2.17**	**2.40**	**2.30**	**2.60**	**2.50**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

3 . course name : C302

Course	**PO1**	**PO2**	**PO3**	**PO4**	**PO5**	**PO6**	**PO7**	**PO8**	**PO9**	**PO10**	**PO11**	**PO12**
C302.1	3	3	1	3	-	-	-	-	-	-	-	-
C302.2	2	2	3	-	-	-	-	-	-	-	-	-
C302.3	2	2	3	3	-	-	-	-	-	-	-	-
C302.4	3	3	1	3	-	-	-	-	-	-	-	-
C302.5	3	3	3	-	-	-	-	-	-	-	-	-
Average	**2.40**	**2.60**	**2.20**	**3.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

4 . course name : C310

Course	**PO1**	**PO2**	**PO3**	**PO4**	**PO5**	**PO6**	**PO7**	**PO8**	**PO9**	**PO10**	**PO11**	**PO12**
C310.1	-	-	3	2	2	-	-	-	-	-	-	-
C310.2	-	-	2	3	3	-	-	-	-	-	-	-

C310.3	3	3	3	3	2	-	-	-	-	-	-	-
C310.4	-	-	2	3	3	-	-	-	-	-	-	-
C310.5	2	2	1	1	-	-	-	-	-	-	-	-
Average	**1.33**	**2.50**	**2.20**	**2.40**	**2.50**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

5 . course name : C401

Course	**PO1**	**PO2**	**PO3**	**PO4**	**PO5**	**PO6**	**PO7**	**PO8**	**PO9**	**PO10**	**PO11**	**PO12**
C401.1	-	-	2	2	-	-	-	-	-	-	-	-
C401.2	2	2	-	2	-	-	-	-	-	-	-	-
C401.3	-	-	2	3	-	-	-	-	-	-	-	-
C401.4	-	-	3	2	2	-	-	-	-	-	-	-
C401.5	-	-	2	3	-	-	-	-	-	-	-	-
Average	**2.33**	**2.00**	**2.25**	**2.40**	**2.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

6 . course name : C410

Course	**PO1**	**PO2**	**PO3**	**PO4**	**PO5**	**PO6**	**PO7**	**PO8**	**PO9**	**PO10**	**PO11**	**PO12**
C410.1	2	2	-	-	-	-	-	-	-	-	-	-
C410.2	2	2	-	-	-	-	-	-	-	-	-	-
C410.3	2	2	2	-	-	-	-	-	-	-	-	-
C410.4	-	-	-	-	-	-	-	-	-	-	-	-
C410.5	1	1	2	-	-	-	-	-	-	-	-	-

Average	**2.00**	**1.75**	**2.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

1 . Course Name : C205

Course	PSO1	PSO2
C205.1	-	-
C205.2	2	-
C205.3	2	-
C205.4	3	-
C205.5	2	-
C205.6	2	-
Average	**2.20**	**0.00**

2 . Course Name : C213

Course	PSO1	PSO2
C213.1	2	-
C213.2	3	-
C213.3	3	-
C213.4	2	-
C213.5	2	-
C213.6	-	-
Average	**2.40**	**0.00**

3 . Course Name : C302

Course	PSO1	PSO2
C302.1	-	2
C302.2	-	3
C302.3	-	3
C302.4	-	3
C302.5	-	2
Average	**0.00**	**2.60**

4 . Course Name : C310

Course	PSO1	PSO2
C310.1	3	-
C310.2	2	-
C310.3	2	-
C310.4	3	-
C310.5	-	-
Average	**2.50**	**0.00**

5 . Course Name : C401

Course	PSO1	PSO2
C401.1	3	3
C401.2	2	2

C401.3	2	2
C401.4	2	1
C401.5	2	1
Average	**2.20**	**1.80**

6 . Course Name : C410

Course	PSO1	PSO2
C410.1	-	2
C410.2	-	-
C410.3	-	2
C410.4	-	-
C410.5	-	1
Average	**0.00**	**1.67**

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

Institute Marks : 10.00

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C101	1.8	1.6	1.4	1.4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	1
C102	1.6	1.4	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C103	2.5	2.5	1	1	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C104	3	2	2	2	PO5	PO6	PO7	PO8	PO9	PO10	PO11	3
C105	2	2.4	2.25	2.33	1	PO6	PO7	PO8	PO9	PO10	PO11	1
C106	2	2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12

C107	1.8	2	PO3	PO4	2	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C108	PO1	PO2	PO3	PO4	PO5	2	PO7	3	PO9	PO10	PO11	3
C109	1.8	1.6	1.4	1.4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	1
C110	2.24	2	1	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C111	1	1	1	1	1	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C112	1.75	1.75	PO3	PO4	2	PO6	PO7	PO8	PO9	PO10	PO11	1
C113	2.6	2	2.6	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C114	3	3	3	2	2	PO6	PO7	PO8	PO9	PO10	PO11	3
C115	3	2.5	1.5	1	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C116	PO1	PO2	PO3	PO4	PO5	3	2.4	2	PO9	PO10	PO11	PO12
C201	1.75	1.75	1.5	1.5	PO5	PO6	PO7	PO8	PO9	PO10	PO11	1
C202	2.67	2	2	3	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C203	2.4	2.2	2.67	2	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C204	2.17	2.17	1.5	PO4	PO5	PO6	PO7	2	PO9	PO10	PO11	PO12
C205	2.67	2.33	1.83	2	2.33	PO6	PO7	PO8	PO9	PO10	PO11	1
C206	2.2	2.25	1.5	1	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C207	2	2.33	2.25	PO4	PO5	PO6	PO7	PO8	2	PO10	PO11	PO12
C208	PO1	PO2	3	3	PO5	PO6	PO7	1	3	2	PO11	1.75
C209	1.6	1.8	1.4	1.6	PO5	PO6	PO7	PO8	PO9	PO10	PO11	1
C210	1.83	3	3	2	2	PO6	PO7	PO8	PO9	PO10	PO11	1.8
C211	2.8	2.4	2.2	2.4	1.6	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C212	2.4	2.6	3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12

C213	2.17	2.4	2.3	2.6	3	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C214	1.67	2	2.3	PO4	PO5	PO6	PO7	2	2	PO10	PO11	PO12
C215	3	2	3	PO4	3	2	PO7	2	2	1	PO11	1.5
C216	PO1	PO2	3	3	PO5	PO6	PO7	1	3	2	PO11	1.8
C301	PO1	PO2	PO3	PO4	PO5	PO6	PO7	2.5	2	2	2.5	2.5
C302	2.4	2.6	2.2	3	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C303	2	2.6	2.8	2.5	3	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C304	2.75	3	1.5	2	2.5	PO6	PO7	PO8	PO9	1.7	2.33	1.75
C305	2.4	2.5	2.5	2.33	2.33	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C306	2.4	2.4	2.5	2.67	2.5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C307	PO1	PO2	PO3	3	3	PO6	PO7	PO8	PO9	PO10	2	3
C308	2	2.6	2.8	3	3	PO6	PO7	1	2	PO10	PO11	PO12
C309	2.8	2.2	1.75	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C310	1.33	2.5	2.2	2.4	2.5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C311	2.4	2.5	2.75	2.5	2.5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C312	2.67	2.5	2.5	2.33	3	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C313	2	2.5	2	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C314	2	2.75	2.25	2	2	2	PO7	PO8	PO9	PO10	PO11	1
C315	2.67	2.25	2.4	2	2	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C316	2.5	2.5	2	2.33	PO5	PO6	PO7	PO8	2	PO10	PO11	PO12
C317	2.75	2.33	3	3	2.5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C401	1.67	1	2.25	2.2	2	PO6	PO7	PO8	PO9	PO10	PO11	PO12

C402	1	2	2.33	PO4	3	2	PO7	PO8	3	1	1	1.5
C403	2.75	2	1.75	1.75	2	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C404	PO1	1	1.67	1	1.5	PO6	PO7	PO8	PO9	PO10	1	1
C405	2.25	PO2	2	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	2
C406	PO1	2	3	2.5	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C407	2.67	3	3	PO4	2.5	PO6	PO7	PO8	2.33	PO10	1.5	PO12
C408	3	3	2.5	PO4	3	PO6	PO7	PO8	3	PO10	1.5	PO12
C409	2.67	2.67	2.67	3	PO5	2	PO7	PO8	PO9	PO10	PO11	3
C410	2	1.75	2	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C411	2.33	2.5	PO3	PO4	PO5	2.5	3	PO8	PO9	PO10	PO11	2.5
C412	2.6	3	3	3	3	2.5	3	2.5	PO9	1.75	PO11	PO12
C413	3	3	2.5	2.33	3	3	1.67	2.67	3	3	1.5	2.5
C414	1.5	2	2	2.5	PO5	2	1.67	3	1.33	3	1	2.6

3.1.3 - B Program level Course-PSO matrix of all courses INCLUDING first year courses :

Course	**PSO1**	**PSO2**
C101	PSO1	PSO2
C102	PSO1	PSO2
C103	PSO1	PSO2
C104	PSO1	PSO2
C105	PSO1	PSO2
C106	PSO1	PSO2
C107	PSO1	PSO2

C108	PSO1	PSO2
C108	PSO1	PSO2
C109	PSO1	PSO2
C110	PSO1	PSO2
C111	PSO1	PSO2
C112	PSO1	PSO2
C113	2	PSO2
C114	PSO1	PSO2
C116	PSO1	PSO2
C201	PSO1	PSO2
C202	3	PSO2
C203	2	2
C204	2.17	PSO2
C205	2.2	PSO2
C206	PSO1	1.8
C207	2.33	PSO2
C208	3	PSO2
C209	PSO1	PSO2
C210	1.6	PSO2
C211	1.2	PSO2
C212	PSO1	2.4
C213	2.4	PSO2

C214	2.16	1.67
C215	2.75	PSO2
C216	3	2.67
C301	PSO1	PSO2
C302	PSO1	2.6
C303	2.6	2
C304	2.67	PSO2
C305	PSO1	2.2
C306	2.6	2
C307	2	2
C308	2.2	2
C309	2.6	PSO2
C310	2.5	PSO2
C311	2.5	PSO2
C312	2	2
C313	2.25	PSO2
C314	2.25	2
C315	3	PSO2
C316	2.75	2.25
C317	2.5	PSO2
C401	2.2	1.8
C402	PSO1	PSO2

C403	2.67	2
C404	PSO1	PSO2
C405	PSO1	2.25
C406	2	2
C407	2	1.67
C408	2.5	2.25
C409	PSO1	PSO2
C410	PSO1	1.67
C411	2	PSO2
C412	PSO1	PSO2
C413	2.5	2.25
C414	2.33	2.33

3.2 Attainment of Course Outcomes (50) Total Marks 38.00

3.2.1 Describe the assessment processes used to gather the data upon which the evaluation of Course Outcome is based (10) Institute Marks : 8.00

Visvesvarya Technical University provides the curriculum, scheme and syllabus of all courses. For all courses, the Course outcome (COs) is decided by the quality of the course. The COs needs to be measured and evaluated on the basis of the outcomes of the Semester End Exam (SEE) and the Continuous Internal Evaluation (CIE) test to verify the achievement of the COs.

Direct assessment process:

1. **Continuous Internal Evaluation (CIE)**: Assessment for all theory courses are done by conducting three IA tests and Assignments/Quiz in each semester. For Laboratory courses, Continuous Internal Evaluation (CIE) and one Lab IA will be conducted at the end of semester.

2. **Semester End Exam (SEE)**: Assessment for all courses is done by SEE conducted by University.

Attainment is determined using relevant assessment methods. The data needed to measure the course attainment are gathered from the following process as shown in the Figure Fig. 3.2.1

Data Collection Process to obtain CO attainment:

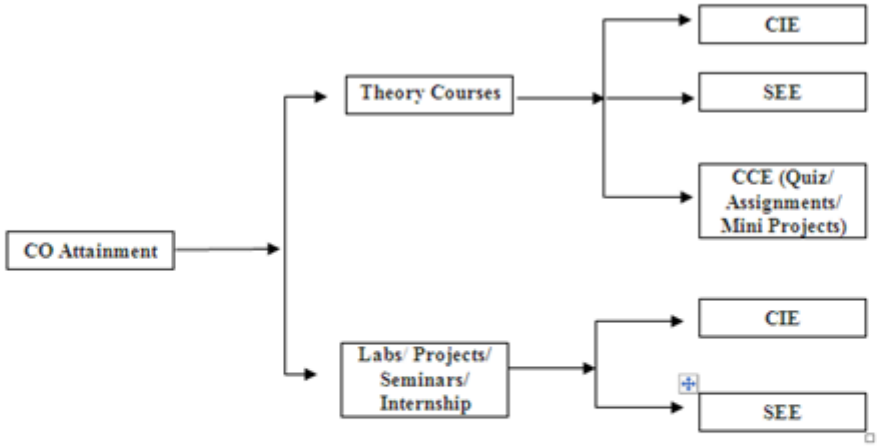


Figure: 3.2.1

Note:
CIE: Continuous Internal Evaluation
SEE: Semester End Exam

SEE: Semester End Exam
CCE: Continuous and Comprehensive Evaluation

Process to Set Target:

COs Attainment Targets at Course Level

Course Evaluation	Scheme	Batch	Marks Distribution	Target Fixed in Percentage
CIA	2010 Scheme	2013 - 2017	25 Marks	50% - 65% for Theory subjects, 50% - 65% for Labs 75% - 80% for Project /Seminars
	2010 Scheme	2014 - 2018	25 Marks	50% - 65% for Theory subjects, 50% - 65% for Labs 75% - 80% for Project /Seminars
	2015 Scheme	2015 - 2019	20 Marks	50% - 65% for Theory subjects, 50% - 65% for Labs 75% - 80% for Project /Seminars
	2015 Scheme	2016 - 2020	20 Marks	5% increase to 2015 Batch Target
	2017 Scheme	2017 - 2021	40 Marks	5% increase to 2016 Batch Target
	2018 Scheme	2018 - 2022	40 Marks	5% increase to 2017 Batch Target
SEE	2010 Scheme	2013 - 2017	100 Marks	50% - 65% for Theory subjects, 50% - 65% for Labs 75% - 80% for Project /Seminars
	2010 Scheme	2014 - 2018	100 Marks	50% - 65% for Theory subjects, 50% - 65% for Labs 75% - 80% for Project /Seminars
	2015 Scheme	2015 - 2019	80 Marks	50% - 65% for Theory subjects, 50% - 65% for Labs 75% - 80% for Project /Seminars
	2015 Scheme	2016 - 2020	80 Marks	5% increase to 2015 Batch Target
	2017 Scheme	2017 - 2021	60 Marks	5% increase to 2016 Batch Target
	2018 Scheme	2018 - 2022	60 Marks	5% increase to 2017 Batch Tar

Note:
1. CO targets for SEE and IA may be decided by the course coordinator based upon the quality of students and difficulty of SEE question paper, but the average should be equal to above mentioned values.
2. Weightages for SEE and IA may be decided by course coordinator but minimum SEE weightage should be 40%.
3. CO target is same for three batches. For fourth batch the average CO attainments (%) of previous three years is the target.

Example of Data Collection Process of Course Outcome (COs)

PES INSTITUTE OF TECHNOLOGY AND MANAGEMENT, SHIVAMOGGA

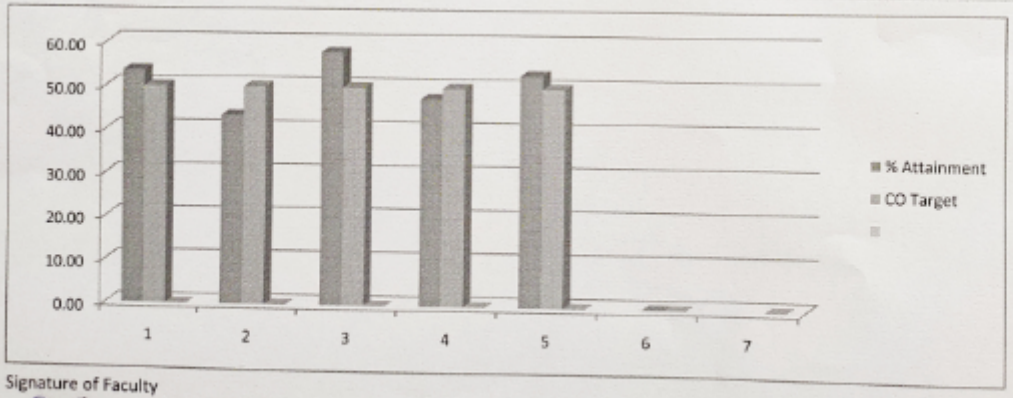
DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Course Assessment Work Sheet

Subject Code	15EC36
Subject Name	Engineering Electromagnetics
Regulation	15 scheme
Year & Semester	3rd smester
Academic Year	2016-17
Name of the Faculty	Dr. M Manoj Kumar/ Mrs. Rashmi T.S

COs Direct Assessment

Outcome	IA	ASSIGNMENT	SEE	% Attainment	CO Target
CO 1	50	99.24	40.3	53.50	50
CO 2	27.36	99.24	40.3	43.31	50
CO 3	60	99.24	40.3	58.00	50
CO 4	36.64	99.24	40.3	47.49	50
CO 5	49.07	99.24	40.3	53.08	50
CO 6					



Signature of Faculty

Rashmi TS

HOD

3.2.2 Record the attainment of Course Outcome of all courses with respect to set attainment levels (40)

Institute Marks : 30.00

Calculating Attainment at each Level of Assessment for Course:

1. **Continuous Internal Evaluation (CIE):**
   Attainment of each CO of Continuous Internal Evaluation will be calculated by taking the ratio of number of students scored the marks greater than the targeted marks of each CO to total number of students attempted the questions mapped to each CO.

$$\textbf{Attainment of } CO_{n,CIE} = \frac{\textbf{No.of students Scored} > \text{Target marks for COn}}{\textbf{No.of Students Attempted Questions mapped to COn}}$$

   Where,
   Attainment of $CO_{n,CIE}$ - Attainment of each CO of Continuous Internal Evaluation

2. **Semester End Exam (SEE)**
   Attainment of each CO of Semester End Exam (SEE) will be calculated by taking the ratio of number of students scored the marks greater than the targeted marks in SEE to total number of students attended SEE

$$\textbf{Attainment of } CO_{n,SEE} = \frac{\textbf{No.of students Scored} > \textbf{Target marks in SEE}}{\textbf{No.of Students Attended SEE}}$$

   Where,
   Attainment of $CO_{n,SEE}$ - Attainment of each CO of Semester End Exam (SEE)

3. **Continuous and Comprehensive Evaluation (CCE)**

Attainment of each CO of Continuous and Comprehensive Evaluation (CCE) will be calculated by taking the ratio of number of students scored the marks greater than the targeted marks for CO_n to total number of students attempted the questions mapped to each CO.

$$\textbf{Attainment of } CO_{n\,CCE} = \frac{\textbf{No.of students Scored >Target marks for COn}}{\textbf{No.of Students Attempted Questions mapped to COn}}$$

Where,

Attainment of $CO_{n\,CCE}$ - Attainment of each CO of Continuous and Comprehensive Evaluation (CCE)

Total attainment

$$\textbf{Final Attainment of } CO_n = \textbf{IA\_ Weightage} * [(0.75 * \textbf{CO\_IA}) + (0.25 * \textbf{CO\_CCE})] + \textbf{SEE\_ Weightage} * [\textbf{CO\_SEE}]$$

If CO Attainment ≥ Target, Level 3
If CO Attainment ≥ Target - 10, Level 2
If CO Attainment ≥ Target -20, Level 1

3.3 Attainment of Program Outcomes and Program Specific Outcomes (50) Total Marks 43.00

3.3.1 Describe the assessment tools and processes used for measuring the attainment of each of the Program Outcomes and Program Specific Outcomes (10) Institute Marks : 8.00

PO Attainment:

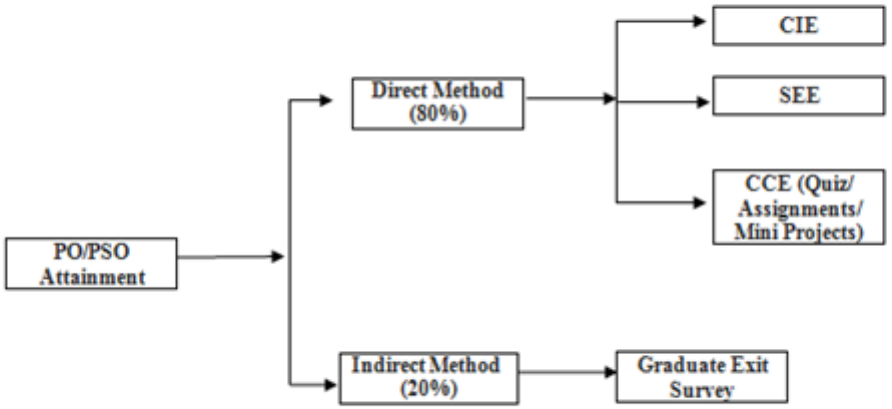


Figure: 3.3.1

Calculating the Final PO/PSO attainment Levels at Course Level:

After calculating weights and fraction of students attained at each level of assessment for a particular course, semester-wise PO attainment will be calculated by using the following formulas.

1. **Direct Assessment:**

   Direct attainment of a PO/PSO is calculated using final attainment of COs.

   $$\textbf{Attainment of PO}_i\textbf{, Direct} = \frac{(\textbf{CO}-\textbf{average attainment}) * \textbf{Average Matrix for POi}}{3}$$

2. **Indirect Assessment:**
   Direct attainment of a PO/PSO is calculated using Average feedback value for PO_i

   Attainment of PO_i, Indirect = Average feedback value for PO_i

Total attainment:

Final Attainment of POi = [(0.8 * POi, Direct) + (0.2 * POi, Indirect)]

Note: Similar calculations will be done for all POs and PSOs.

Process to set Target:

Faculty meeting is held at the beginning of the every semester and within this meeting, by considering the opinion of all faculties the target is set for each PO / PSO which is given below

	PO	Target	
1.	PO1	70%	2.1
2.	PO2	70%	2.1
3.	PO3	70%	2.1
4.	PO4	70%	2.1
5.	PO5	67%	2
6.	PO6	67%	2
7.	PO7	67%	2
8.	PO8	67%	2
9.	PO9	67%	2
10.	PO10	67%	2
11.	PO11	67%	2
12.	PO12	67%	2
13.	PSO1	60%	1.8
14.	PSO2	60%	1.8

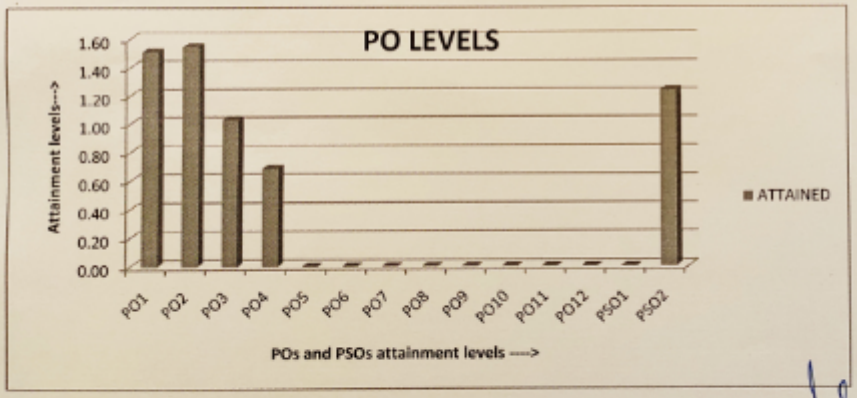
Example of Data Collection Process of Program Outcome (POs) / Program Specific Outcome (PSOs)

PES INSTITUTE OF TECHNOLOGY AND MANAGEMENT

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING.

Subject Code	15EC36
Subject Name	ENGINEERING ELECTROMAGNETICS
Regulation	2015 scheme
Semester	3RD SEMESTER
Academic Year	2016-17
Name of the handling faculty:	Dr. M Manoj Kumar and Mrs. Rashmi T S

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
PO ATTAINMENT IN %	51.75	51.40	49.85	51.61										50.19
ATTAINED	1.51	1.55	1.03	0.69										1.24



Signature of Faculty

Rashmi T S

Signature of HOD

Calculating PEO Attainment (2015-2019 batch):

PEO1	To develop the ability among students to understand the concept of core subjects.
PEO2	To give exposures to emerging technologies, adequate training and opportunities to work as team on multidisciplinary projects with effective communication skills.
PEO3	To cultivate ethical practices in Professional, Societal & Environmental needs by engaging in life-long learning.

Level of attainment for PEO

Level of attainment for PEO	
>=70%	Excellent
>=60% & <70%	Very Good
>=50% & <60%	Good
>=40% & <50%	Satisfactory
<40%	Not Satisfactory

PEO attainment weightage

Direct	PO attainments (Results)	60%
	Placements	15%
	Higher Studies	5%
Indirect	Alumni Survey (Minimum 30 samples)	20%

Attainment of PO with PEO:

	PEO1	PEO2	PEO3
PO1	3		3
PO2	3		2
PO3		3	
PO4		3	

PO5		3	
PO6			2
PO7			2
PO8			3
PO9			2
PO10			2
PO11			1
PO12			1
PSO1	2	2	1
PSO2	3	3	2

$$\text{Attainment of PEOj} = \frac{\sum(\text{PO attainment} * \text{Mapping of PO}) + \sum(\text{PSO Attainment} * \text{Mapping of PSO})}{\text{Number of Correlation exist for PEOj}}$$

3.3.2 Provide results of evaluation of PO&PSO (40)

Institute Marks : 35.00

PO Attainment

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C101	1.32	1.18	1.03	1.03	PO5	PO6	PO7	PO8	PO9	PO10	PO11	0.74
C102	1.6	1.4	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C103	1.84	1.84	0.74	0.74	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C104	3	2	2	2	PO5	PO6	PO7	PO8	PO9	PO10	PO11	3
C105	2	2.4	2.25	2.34	1	PO6	PO7	PO8	PO9	PO10	PO11	1
C106	2	2	PO3	PO4	PO5	PO6	PO7	PO8	2	PO10	PO11	PO12
C107	1.8	2	PO3	PO4	2	PO6	PO7	2	2	1	PO11	1
C108	1.32	1.18	1.03	1.03	PO5	PO6	PO7	PO8	PO9	PO10	PO11	0.74
C108	PO1	PO2	PO3	PO4	PO5	1.95	PO7	2.93	PO9	PO10	PO11	2.9

C108	PO1	PO2	PO3	PO4	PO5	1.95	PO7	2.93	PO9	PO10	PO11	2.9
C109	3	2.5	1.5	1	PO5	PO6	PO7	1	2	1	PO11	1
C110	1	1.34	1	PO4	1	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C111	1.75	1.75	PO3	PO4	2	PO6	PO7	PO8	PO9	PO10	PO11	1
C112	2	1.34	1	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C113	3	3	3	2	2	PO6	PO7	1	1	1	PO11	2.2
C114	3	2.5	1.5	1	PO5	PO6	PO7	1	2	1	PO11	1
C116	PO1	PO2	PO3	PO4	PO5	2.98	2.38	1.99	PO9	PO10	PO11	PO12
C116	PO1	PO2	PO3	PO4	PO5	2.98	2.38	1.99	PO9	PO10	PO11	PO12
C201	1.75	1.75	1.5	1.5	PO5	PO6	PO7	PO8	PO9	PO10	PO11	1
C202	2.53	1.9	1.9	2.85	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C203	2.1	1.92	2.33	1.75	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C204	1.94	1.94	1.3	PO4	PO5	PO6	PO7	1.8	PO9	PO10	PO11	PO12
C205	1.34	1.17	0.92	1.17	PO5	PO6	PO7	PO8	PO9	PO10	PO11	0.5
C206	1.51	1.54	1.03	0.69	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C207	3	2.25	2.5	PO4	PO5	PO6	PO7	PO8	2	PO10	PO11	PO12
C208	PO1	PO2	3	3	PO5	PO6	PO7	1	3	2	PO11	1.75
C209	1.07	1.2	0.94	1.07	PO5	PO6	PO7	PO8	PO9	PO10	PO11	0.67
C210	1.2	2	2	1.3	1.3	PO6	PO7	PO8	PO9	PO10	PO11	1.2
C211	1.4	1.2	1.1	1.2	0.8	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C212	1.088	1.179	1.36	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C213	1	1.25	1.2	1.3	1.5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C214	1.3889	1.667	1.944	PO4	PO5	PO6	PO7	1.6667	1.6667	PO10	PO11	PO12

C215	2	1.34	2	PO4	2	1.34	PO7	1.34	1.34	0.67	PO11	1
C216	PO1	PO2	3	3	PO5	PO6	PO7	1	3	2	PO11	1.8
C301	PO1	PO2	PO3	PO4	PO5	PO6	PO7	2.39	1.91	1.91	2.39	2.39
C302	2.18	2.36	1.99	2.7	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C303	1	1.3	1.4	1.25	1.5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C304	2.49	2.41	1.35	2.4	2.26	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C305	2.4	2.5	2.5	2.34	2.34	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C306	2.28	2.28	2.37	2.53	2.37	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C307	PO1	PO2	PO3	3	3	PO6	PO7	PO8	2	3	PO11	PO12
C308	1.67	2.17	2.34	PO4	1.67	PO6	PO7	.84	1.67	PO10	PO11	PO12
C309	2.33	1.83	1.16	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C310	0.88	1.66	1.46	1.6	1.66	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C311	2.4	2.4	2.75	2.5	2.5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C312	2.22	1.94	1.83	1.66	2.22	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C313	2	2.5	2	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C314	1.25	1.71	1.4	1.25	1.25	1.25	PO7	PO8	PO9	PO10	PO11	0.62
C315	2	1.68	1.8	1.5	1.5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C316	2.5	2.5	2	2.34	PO5	PO6	PO7	PO8	2	PO10	PO11	PO12
C317	2.3	1.95	2.5	2.5	2.09	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C401	1.22	0.73	1.65	1.61	1.47	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C402	0.45	0.9	1.05	PO4	1.35	0.9	PO7	PO8	1.35	0.45	0.45	0.675
C403	1.38	1	0.88	0.88	1	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C404	PO1	0.45	0.75	0.45	0.67	PO6	PO7	PO8	PO9	PO10	0.45	0.675

C405	1.2	PO2	0.533	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	1.0667
C406	2.67	2	3	2.5	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C407	2.67	3	3	PO4	2.5	PO6	PO7	PO8	2.34	PO10	1.5	PO12
C408	3	3	2.5	PO4	3	PO6	PO7	PO8	3	PO10	1.5	PO12
C409	2.66	2.66	2.66	3	PO5	2	PO7	PO8	PO9	PO10	PO11	3
C410	1.28	1.12	1.28	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	3
C411	0.91	0.65	PO3	PO4	PO5	0.65	0.78	PO8	PO9	PO10	PO11	0.65
C412	2.6	3	3	3	3	2.5	3	2.5	PO9	1.75	PO11	PO12
C413	3	3	2.5	2.34	3	3	1.67	2.67	3	3	1.5	2.5
C414	1.5	2	2	2.5	PO5	2	1.67	3	1.34	3	1	2.6

PO Attainment Level

Course	**PO1**	**PO2**	**PO3**	**PO4**	**PO5**	**PO6**	**PO7**	**PO8**	**PO9**	**PO10**	**PO11**	**PO12**
CO Attainment	2.07	1.95	1.94	1.98	2.02	2.08	2.12	2.03	2.14	1.85	1.53	1.72
Direct Attainment	1.90	1.85	1.79	1.85	1.86	1.96	1.98	1.84	2.03	1.68	1.26	1.52
InDirect Attainment	2.75	2.37	2.54	2.51	2.66	2.56	2.69	2.78	2.59	2.51	2.6	2.5

PSO Attainment

Course	**PSO1**	**PSO2**
C101	PSO1	PSO2
C102	PSO1	PSO2
C103	PSO1	PSO2
C104	PSO1	PSO2
C105	PSO1	PSO2

C106	PSO1	PSO2
C107	PSO1	PSO2
C108	PSO1	PSO2
C108	PSO1	PSO2
C108	PSO1	PSO2
C109	PSO1	PSO2
C110	PSO1	PSO2
C111	PSO1	PSO2
C112	PSO1	PSO2
C113	2	PSO2
C114	PSO1	PSO2
C116	PSO1	PSO2
C116	PSO1	PSO2
C201	PSO1	PSO2
C202	2.85	PSO2
C203	1.75	1.75
C204	1.94	PSO2
C205	1.1	PSO2
C206	PSO1	1.236
C207	2.25	PSO2
C208	3	PSO2
C209	PSO1	PSO2
C210	1.84	PSO2

C211	0.6	PSO2
C212	PSO1	1.44
C213	2	PSO2
C214	1.8	1.39
C215	1.84	PSO2
C216	3	2.67
C301	PSO1	PSO2
C302	PSO1	2.36
C303	1.3	1
C304	2.26	PSO2
C305	PSO1	2.2
C306	2.47	1.9
C307	2	2
C308	1.84	1.67
C309	2.16	PSO2
C310	1.67	PSO2
C311	2.5	PSO2
C312	1.67	1.67
C313	2.25	PSO2
C314	1.4	1.25
C315	2.25	PSO2
C316	2.75	2.25
C317	2.09	PSO2

C401	1.61	1.32
C402	PSO1	PSO2
C403	1.34	1
C404	PSO1	PSO2
C405	PSO1	1.2
C406	2	2
C407	2	1.67
C408	2.5	2.25
C409	PSO1	PSO2
C410	PSO1	1.07
C411	0.8	PSO2
C412	PSO1	PSO2
C413	2.5	2.25
C414	2.34	2.34

PSO Attainment Level

Course	**PSO1**	**PSO2**
CO Attainment	2.12	1.89
Direct Attainment	1.99	1.73
InDirect Attainment	2.64	2.54

4 STUDENTS' PERFORMANCE (150) Total Marks 88.92

:

Table 4.1

Item (Information to be provided cumulatively for all the shifts with explicit headings, wherever applicable)	2019-20 (CAY)	2018-19 (CAYm1)	2017-18(CAYm2)	2016-17(CAYm3)	2015-16(CAYm4)	2014-15 (CAYm5)	2013-14 (CAYm6)
Sanctioned intake of the program(N)	120	120	120	120	120	120	120
Total number of students admitted in first year minus number of students migrated to other programs/ institutions plus No. of students migrated to this program (N1)	82	92	90	96	107	103	95
Number of students admitted in 2nd year in the same batch via lateral entry (N2)	0	14	7	24	31	40	45
Separate division students, If applicable (N3)	0	0	0	0	0	0	0
Total number of students admitted in the programme(N1 + N2 + N3)	82	106	97	120	138	143	140

Table 4.2

Year of entry	Total No of students admitted in the program (N1 + N2 + N3)	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	IV year
2019-20 (CAY)	82	0	0	0	0
2018-19 (CAYm1)	106	51	0	0	0
2017-18 (CAYm2)	97	58	39	0	0
2016-17 (CAYm3)	120	53	44	42	0
2015-16 (LYG)	138	46	31	31	30
2014-15 (LYGm1)	143	31	23	22	22
2013-14 (LYGm2)	140	47	24	23	23

Table 4.3

Year of entry	Total No of students admitted in the program (N1 + N2 + N3)	Number of students who have successfully graduated in stipulated period of study) [Total of with Backlog + without Backlog]			
		I year	II year	III year	IV year
2019-20 (CAY)	82	0	0	0	0
2018-19 (CAYm1)	106	83	0	0	0
2017-18 (CAYm2)	97	81	79	0	0
2016-17 (CAYm3)	120	91	95	91	0
2015-16 (LYG)	138	97	105	103	103
2014-15 (LYGm1)	143	86	107	102	102
2013-14 (LYGm2)	140	89	97	86	86

4.1 Enrolment Ratio (20)

Total Marks 16.00

Institute Marks : 16.00

	N (From Table 4.1)	N1 (From Table 4.1)	Enrollment Ratio [(N1/N)*100]
2019-20 (CAY)	120	82	68.33
2018-19 (CAYm1)	120	92	76.67
2017-18 (CAYm2)	120	90	75.00

Average [(ER1 + ER2 + ER3) / 3] : 73.33

Assessment : 16.00

4.2 Success Rate in the stipulated period of the program (40) Total Marks 14.85

4.2.1 Success rate without backlogs in any semester / year of study (25) Institute Marks : 4.50

Item	Latest Year of Graduation, LYG (2015-16)	Latest Year of Graduation minus 1, LYGm1 (2014-15)	Latest Year of Graduation minus 2 LYGm2 (2013-14)
X Number of students admitted in the corresponding First year + admitted in 2nd year via lateral entry and seperated division, if applicable	138.00	143.00	140.00
Y Number of students who have graduated without backlogs in the stipulated period	30.00	22.00	23.00
Success Index [SI = Y / X]	0.22	0.15	0.16

Average SI [(SI1 + SI2 + SI3) / 3] : 0.18

Assessment [25 * Average SI] : 4.50

4.2.2 Sucess rate in stipulated period (15) Institute Marks : 10.35

Item	Latest Year of Graduation, LYG (2015-16)	Latest Year of Graduation minus 1, LYGm1 (2014-15)	Latest Year of Graduation minus 2 LYGm2 (2013-14)
X Number of students admitted in the corresponding First year + admitted in 2nd year via lateral entry and seperated division, if applicable	138.00	143.00	140.00
Y Number of students who have graduated in the stipulated period	103.00	102.00	86.00
Success Index [SI = Y / X]	0.75	0.71	0.61

Average SI[(SI1 + SI2 + SI3) / 3]: 0.69

Assessment [15 * Average SI] : 10.35

Note : If 100% students clear without any backlog then also total marks scored will be 40 as both 4.2.1 & 4.2.2 will be applicable simultaneously.

4.3 Academic Performance in Third Year (15) Total Marks 8.66

Institute Marks : 8.66

Academic Performance	**CAYm3 (2016-17)**	**LYG (2015-16)**	**LYGm1 (2014-15)**
Mean of CGPA or mean percentage of all successful students(X)	6.16	6.37	5.41
Total number of successful students(Y)	91.00	103.00	102.00
Totalnumber of students appeared in the examination(Z)	95.00	105.00	107.00
API [X*(Y/Z)]:	5.90	6.25	5.16

Average API [(AP1 + AP2 + AP3)/3] : 5.77

Assessment [1.5 * AverageAPI] : 8.66

4.4 Academic Performance in Second Year (15) Total Marks 7.81

Institute Marks : 7.81

Academic Performance	**CAYm2 (2017-18)**	**CAYm3 (2016-17)**	**LYG (2015-16)**
Mean of CGPA or mean percentage of all successful students(X)	6.90	5.95	5.50
Total number of successful students (Y)	79.00	95.00	105.00
Total number of students appeared in the examination (Z)	88.00	115.00	128.00
API [X * (Y/Z)]	6.19	4.92	4.51

Average API [(AP1 + AP2 + AP3)/3] : 5.21

Assessment [1.5 * AverageAPI] : 7.81

4.5 Placement, Higher Studies and Entrepreneurship (40)

Total Marks 27.60

Institute Marks : 27.60

Item	LYG (2015-16)	LYGm1 (2014-15)	LYGm2 (2013-14)
Total No of Final Year Students(N)	103.00	98.00	86.00
No of students placed in the companies or government sector(X)	62.00	57.00	50.00
No of students admitted to higher studies with valid qualifying scores(GATE or equivalent State or National Level tests, GRE, GMAT etc.) (Y)	3.00	6.00	3.00
No of students turned entrepreneur in engineering/technology (Z)	1.00	0.00	0.00
x + y + z =	59.00	68.00	70.00
Placement Index [(X+Y+Z)/N] :	0.57	0.69	0.81

Average Placement [(P1 + P2 + P3)/3] : 0.69

Assessment [40 * Average Placement] : 27.60

Program Name :

Assessment Year Name : CAYm1

S.No	Student Name	Enrollment No	Employee Name	Appointment No
1	Niranjana K	4PM15EC053	GLOBALEDGE	EMP ID
2	Nayana S.U.	4PM15EC050	SLK	offer letter
3	Apoorva Kalal	4PM15EC008	ABC GROUP	offer letter
4	Prasanna Bhat	4PM15EC069	CONSILIENT TECHNOLOGIES	offer letter
5	Pooja Navale	4PM15EC067	ABC GROUP	offer letter
6	Sirigowri N. H	4PM15EC097	TCS	TCSL/DT20184520225/Bangalore
7	Aditya G Rao	4PM15EC001	TCS	DT20184520291

8	Inchara U N	4PM15EC032	MPHASIS	MPHTH2019-0556
9	Amulya H G	4PM15EC005	CAREER PRIME	CP/2018-2019/CPPOL/CaRe/0035
10	Yashaswini M	4PM15EC113	INFOSYS	HRD/3T/19-20/13080445
11	Kavya M R	4PM15EC034	ACCORD SOFTWARE	offer letter
12	Pooja M L	4PM15EC063	Tech Mahindra	EMP ID-669032
13	Swathi S	4PM15EC107	RIIIT-JOBKART	offer letter
14	P H Shwetha	4PM15EC058	RIIIT-JOBKART	offer letter
15	Rakshitha Cu	4PM15EC075	ROOMAN	offer letter
16	Nishad Khanum Suri	4PM15EC055	HERAIZEN	offer letter
17	Chethan K M	4PM15EC023	AEGIS	SAP ID-0804487
18	Anusha Bhatta	4PM16EC401	ANMERKUNG	ASPLBN0318
19	Priya S Khadi	4PM16EC419	MICRO PRECISION	offer letter
20	Malini B NaiK	4PM16EC410	ANMERKUNG	offer letter
21	Swati Shreepada Hegde	4PM15EC108	TCS	TCSL/DT20184642428
22	Rohan J R	4PM15EC077	Blue Stream	EMP ID-BSPS463
23	Sumitha J	4PM15EC102	TCS	TCSL/DT20184520027
24	Drusti N G	4PM15EC027	Service Provider	EMP ID card
25	Laxmi Hirabayi	4PM15EC038	UTS Global	UST/SO00055586-1-1-1/675620
26	Alfiya Imtiyaz	4PM15EC004	M.Tech,KLE, HUBLI	Admission Letter - XC223
27	Smitha S	4PM15EC098	M.Tech,JNNCE, Shimoga	College ID - 190926
28	Seema Taranum	4PM15EC088	M.Tech,JNNCE, Shimoga	College ID - 190925
29	Sanath S P	4PM15EC084	Dataweave	Emp ID – T066
30	Ashwini Baragali	4PM15EC015	Replicon	Emp ID – TR10107

31	Ramappa J	4PM16EC422	Enterpreneur	License Number – 10019914000013
32	Harshitha L P	4PM15EC031	Business Solution Intenational	Emp ID card
33	Priya K	4PM16EC418	PESITM	Emp ID card
34	Jagadeesh K R	4PM16EC408	Enterpreneur	Digital Marketing
35	Suma H M	4PM15EC100	Accenture	C8385774
36	Chaitra G C	4PM15EC019	Infinite Computer Solution Ltd	ICSL/Independent Consultant/8123/4480/30122019
37	Akkamma	4PM15EC003	Fidrox	Offer letter
38	Akash Thakur	4PM15EC002	Mindtree	Offer Letter
39	Chadrashekara Maruti	4PM15EC020	Prerana Motors	Emp ID card
40	Kishore K S	4PM15EC037	Viewwiser Technologies	Payslip
41	Keshava H	4PM15EC036	TCS	Emp ID - 347031
42	Fathima S	4PM15EC028	Pincore Technologies	PTIPL.TC.0719.AO25
43	Muskan Banu	4PM15EC047	Pacecom	PTPL0506
44	Pallavi V Shet	4PM15EC060	TCS	TCSL/DT20184589549/1338211/Bangalore
45	Sagar N M	4PM15EC081	KPGCo	Payslip
46	Roja M R	4PM15EC078	Mobinius	Emp ID –M20292
47	Sanjay Y	4PM15EC087	Concentrix	Appointment Letter
48	Nayan Shivam	4PM15EC049	Authbridge	ARS/HRD/LT/48
49	Pradeep H P	4PM16EC417	PSI	Qualified Letter
50	Manjunath B	4PM16EC411	PSI	Qualified Letter
51	Pallavi Y D	4PM15EC059	Global Edge	Emp ID card
52	Shameel Irshad	4PM15EC090	OPPO	Offer Letter
53	Sinchana N	4PM15EC095	PSP Innovators	Offer Letter

54	Nayana D Acharya	4PM16EC415	Make Over	Emp ID- MF/201014392
55	Pooja P R	4PM15EC064	Gallagher	Offer Letter
56	Samyukta	4PM15EC082	Gallagher	Offer Letter
57	Supriya J T	4PM15EC104	Gallagher	Offer Letter
58	Suma N M	4PM15EC101	Gallagher	Offer Letter
59	Supriya L T	4PM15EC105	Vedantu	Emp ID – INT1188
60	Namrata Patter	4PM15EC048	Intugine Technologies	Offer Letter
61	Archana K	4PM15EC010	IIIHT	employer letter
62	Mahendra H V	4PM15EC043	Orbitycs	offer letter

Assessment Year Name : CAYm2

S.No	Student Name	Enrollment No	Employee Name	Appointment No
1	Pragathi N P	4PM14EC052	NTTDATA	EMP ID-181100
2	Kavana R A	4PM14EC032	MINDTREE	EMP ID card
3	Juhi Gupta	4PM14EC030	VALUELABS	EMP ID-101297
4	Somashekar H C	4PM14EC090	WIPRO	EMP ID-20070348
5	Poornima B Patil	4PM15EC418	AVANKIA	Offer letter
6	Harshitha M S	4PM14EC028	TCS	TCSL/DT20184828867/Bangalore
7	Akshatha Cm	4PM14EC004	CONGNIZANT	12761203
8	Bindu Ms	4PM14EC015	CONGNIZANT	12761250
9	Sushma H B	4PM14EC098	BLUESTREAM	EMP ID-BSPS439
10	Rashmi R Pai	4PM14EC067	MPHASIS	EMP ID-2359516
11	Mohammad Shoaib	4PM14EC041	RANDSTAD PVT LTD.	EMP code-1351230
12	Brincita Prima Cutina	4PM14EC016	SANKALP SEMICONDUCTORS	EMP ID-2177
13	Prathik S P	4PM14EC055	NEST AWAY	EMP ID-E1895

14	Jagath Jog	4PM14EC029	UNIZEN TECHNOLOGIES	EMP ID-20190210
15	Karthik S	4PM15EC408	PIXEL	J-10
16	Akshatha S	4PM14EC006	MPHASIS	EMP ID-2367534
17	Venkatasubba S Bhat	4PM15EC437	MPHASIS	APPS/1074013/07703662/bangalore/september/v0
18	K Shwetha	4PM14EC031	SYNERGY	Offer letter
19	Akshatha G	4PM14EC005	NTTDATA	Offer letter
20	Meghana S	4PM15EC412	SHINE	pay slip
21	Sushmitha patil H M	4PM14EC101	DXC.TECHNOLOGY	Offer letter
22	Naveed Pasha	4PM14EC046	TATA ELXSI	EMP ID-21466
23	Murthy K	4PM15EC413	STARMARK	EMP ID-1205
24	Tabassum	4PM14EC103	SLK SOFTWARE	Offer letter
25	Nagamani G Bhat	4PM14EC044	ACCENTURE	C8350593
26	Sagar Nadig	4PM14EC070	ACCENTURE	7259889318
27	Sushma J	4PM14EC099	GLOBAL EDGE	EMP ID card
28	Tanzeela Banu	4PM14EC104	GENX TECHNOLOGIES	HR/1006/2019/260619/7
29	Sushanth	4PM14EC097	BOSCH	Offer letter
30	Arun Kumar S K	4PM14EC013	CENDUIT	Offer letter
31	NAGAMANI H A	4PM15EC414	SHINE	pay slip
32	Dhanaraj Murthy	4PM14EC022	6TH ENERGY	offer letter
33	Shreedevi Bagewadi	4PM14EC080	JV mandal’s Polytechnic	Experience letter
34	Shruthi L P	4PM14EC081	BLOCK GEMINI	IN31
35	Spandashri	4PM14EC093	UST GLOBAL	offer letter
36	Ranjitha Pandit	4PM14EC066	AMAZON	pay slip

37	Shradda P Jain	4PM14EC079	Source one	E3722
38	Usha M T	4PM14EC105	Mind Tree	V201705
39	Vinay G	4PM15EC438	Blue Stream	BSPS438
40	Vishal Hatti	4PM15EC439	MELSTAR	MITU/PRSNL/19-20
41	Mohan Kumar K N	4PM14EC043	SI2Chip	Offer Letter
42	Shruthi Shanbhaga	4PM14EC082	PLAYSIMPLE	Payslip
43	Priyanka J K	4PM14EC059	eminds	offer letter
44	Shwetha S M	4PM14EC084	ionidea	Emp Id-0201973
45	Meghana PS	4PM14EC039	M.Tech (Digital Communication),BMSCE	College Id
46	Alina Imtiaz	4PM14EC007	M.Tech(VLSI Design),KLE University	College Id
47	Pallavi M	4PM14EC049	M.Tech (DECS),JNNCE, Shivamogga	College Id
48	Pooja Patil	4PM14EC051	M.Tech (Digital Communication),BMSCE	College Id
49	Ravikumar	4PM14EC068	M.Tech,SIT, TUMKUR	College Id
50	Prateek Kudalkar	4PM14EC053	MBA,BMS, Bangalore	Admission Order - 1900000724
51	Sandesh V	4PM14EC075	PGDM,GIBS	College Id
52	Shivasharma	4PM14EC078	Entrepreneur	Corporate Id - U93090KA2019PTC119982
53	Sahana J B	4PM14EC071	Eazywrkz technologies	Offer letter
54	Subbramanya	4PM15EC433	Entrepreneur	License ID-226/2016-17
55	Rajat R	4PM14EC062	INube Software Solutions	Offer letter
56	Vineeth M	4PM14EC108	CATTLEYA TECHNOSYS	EMP ID-NTS000157
57	Adinath	4PM15EC400	6th Energy	offer letter

Assessment Year Name : CAYm3

S.No	Student Name	Enrollment No	Employee Name	Appointment No
1	Chaitra C	4PM13EC021	CSC CORP	2019IND39604_5

2	Vishwanath A N	4PM14EC442	SEQUENTIAL TECHNOLOGY INTERNATIONAL	Offer letter
3	Harsha H K	4PM14EC412	I-SOURCE INFOSYSTEMS	ISIPL/HR/2018/12/9642/
4	Chaithra S R	4PM13EC020	TCS	TCSL/DT20184148292/1087373/Bangalore
5	Bharath A	4PM13EC016	GLOBALEDGE	EMP ID
6	Swasthika T N	4PM13EC090	CTS	12651567
7	Raga C	4PM13EC067	QUESS	QS1378797
8	Pooja S P	4PM13EC064	CTS	12651508
9	Chakravarthi Parthasarathi	4PM13EC022	KOHLER	OFFER LETTER
10	Maheen	4PM13EC044	INNOV	201838474
11	Shivakumar P	4PM14EC436	SUTHERLAND	OFFER LETTER
12	Mahalaxmi M	4PM13EC043	QUADGEN	HR/WIR/OL/2019/117
13	Ranjitha	4PM13EC070	TECH MAHINDRA	1480816/ELTP/2017
14	Amrutha K R	4PM13EC005	NTS TECHNOLOGY SERVICES	PAY SLIP
15	Shreyas S	4PM13EC082	TECH MAHINDRA	696626/1479734/ELTP
16	Azeema Khanum	4PM13EC013	TECH MAHINDRA	696646/1480811/ELTP
17	Shwetha R	4PM14EC437	NEEDS	EMP ID-NW3337
18	Veeresh C S	4PM13EC095	KPIT	EMP ID-00136438
19	Kruthi S M	4PM14EC417	POZIBILITY TECHNOLOGIES	OFFER LETTER
20	Nithin V	4PM13EC060	DELUXE INDIA PRIVATE LTD	OFFER LETTER
21	Veena H J	4PM14EC440	PEOPLE SOURCE	OFFER LETTER
22	Neha Taslim	4PM13EC055	ATTRA	OFFER LETTER
23	Navami G S	4PM13EC053	5BARZ	5BARZ/HR/APPT/20190129/02
24	Hareesh C R	4PM13EC032	DOC & U	OFFER LETTER

25	Sachin G	4PM13EC072	CONTINENTAL	EMP ID-2276
26	Divya U	4PM13EC028	QUESS	OFFER LETTER
27	Suma S	4PM13EC086	TALISMA	TALISMA/LOA/1671/2019-20/071619/303
28	Savitha B C	4PM13EC076	ISTRAC	SME/TR-536/WCR-449/ISTRACTS-11/19/5546
29	K Chandrashekar	4PM13EC038	CIENTRA	CTPL-0625
30	Tejas R	4PM13EC092	MAGNA Infotech	201829
31	Anusha Shetty	4PM13EC009	SKYPRO	OFFER LETTER
32	Hitesh Karath	4PM13EC035	FLYVI TECHNOLOGIES	FTPL/AO/2017-2018
33	Bharath Hegde	4PM13EC015	PCC	EMP ID
34	Arpitha S C	4PM13EC011	SEMTRONICS	Confirmation Mail
35	Aditya J	4PM13EC002	INNOVATIONS	Pay Slip
36	Bharath R P	4PM14EC407	ROOMAN	OFFER LETTER
37	Shivaprasad S C	4PM13EC081	ROCKWELL COLLINS	OFFER LETTER
38	Nisarga Chawan	4PM13EC059	Ethnus	OFFER LETTER
39	Shilpashree H S	4PM13EC080	TECH MAHINDRA	696646/1479780/ELTP
40	Praveen K	4PM13EC066	CMS	EMP ID-22004248
41	Anusha K S	4PM13EC007	DXC.TECHNOLOGY	EMP ID
42	Chandan R	4PM13EC023	WIPRO	2124395
43	Pavitra	4PM13EC061	TCS	TCSL/DT20184188566
44	Vidyashree T	4PM13EC096	COGNIZANT	12651576
45	USHA S R	4PM13EC094	GENPACT	SDS001004-1981267
46	Poornima S	4PM13EC065	IKYA HUMAN CAPITAL SOLUTIONS	QS1788208
47	Swati K J	4PM13EC091	TECH MAHINDRA	696646/1480866/ELTP

48	Nikhil R S	4PM13EC057	TECH MAHINDRA	696646/1479806/ELTP
49	Azar M Khan	4PM13EC014	HARMAN	EMP ID-A05954
50	Pooja S L	4PM14EC426	ALP consulting	Offer letter

4.6 Professional Activities (20) Total Marks 14.00

4.6.1 Professional socities/ chapters and organizing engineering events (5) Institute Marks : 2.00

Events conducted in the Dept. for Even Sem.2018-19

Sl.no.	Events	Date	SDP/FDP	Resource Persons	Number of Participants
1	EDC Awereness programme	1st Feb.2019	For students	Mr.R.P.Patil. Director , CEDOK,Davanagere	60
2.	Four Days workshopon PCB design and IOT.	14th March to 17th March 2019	For students ECE/EEE	Dr. Narasimhan. Singapur Philips ,Senior Application Manager, Sponsored by BITES Bangalore	60
3	Three days workshop on ROBOTICs in association with Mechanical department.	1st April to 3rd April 2019	For students ME/ECE	MrAbhishek Senior Design Engineer Rovers Lab, Bangalore	60
4	Three days FDP on Research funding opportunities and proposal preparation for academician	27th to 29th April 2019	For Faculty Members	Dr K.Venkateswara Rao, BOS Chairman, Professor & Head, Institute of Science and Technology, JNTUH	69
5	National Conference on Microwaves and Antennas	30th April 2019	For Research scholars	Dr.Ramakriahna Joshi Professor,ECE, BVBCE Hubli	25

4.6.2 Publication of technical magazines, newsletters, etc. (5) Institute Marks : 4.00

Newsletter published annually twice and circulated among faculty and students. It is also posted on the college website.

Year	Newsletter PESITRONICS
2018-19	2
2017-18	2
2016-17	2

Newsletter published on 2018-19(Odd Semester)

Volume 1, Issue 2 PESITRONICS- Imagination becomes reality Feb. 2019

Electronics & Communication Engineering News Letter

"PESITRONICS" Imagination Becomes Reality

PES Institute of Technology & Management, Shivamogga

Affiliated to AICTE, ISO 9001 2015 Certified Institute, NH-206, Sagar road, Shivamogga-577204.

Our Vision

- To be a leading center of excellence in the field of electronics and communication engineering for learning and research with professional ethics.

Our Mission

- To provide quality technical education for students develop into globally competent professionals.
- To develop a framework for collaboration and multidisciplinary activities to ensure ethical and value based education to address social needs.

Dept. of Electronics and Communication Engineering became functional with the establishment of the institute in the year 2007. Being the core branch in Engineering, it has a lot of potential in various Sectors such as Telecommunication, IT, Low power VLSI Design, Embedded system & Robotics, and Manufacturing & Testing. The current intake for UG Program is 120.

Dept. of E&CE has highly skilled faculties, well equipped with latest laboratory equipments & industrial software's like CADENCE, MATLAB, Xilinx and more. Department has conducted and organized National Conference, workshops and technical talks related to the current trends and technology.

Staff and Students of E&CE have involved with several research/ curricular and co-curricular activities throughout the semesters and academic year, the PESITRONICS newsletter brings you the foretaste of all the activities in the E&CE Department.

Technical Talk and Fresher's Day Celebration

Technical Talk and Fresher's Day Celebration

As a part of technical activity an invited talk was arranged by Dept. of E&CE on 10th October 2018 on the topic "Satellite Communication" and Mr. Vimalan J, Assistant Director(E)/ HOO, IBES, All India Radio, Bhadravathi, was the resource person on the occasion and addressed the regarding the same. In the forenoon after a delicious lunch the fresher's function "VINUTHANA.18" was conducted by Final year and Pre-final year students to the 2nd year students of E&CE Dept.

To succeed in your mission, you must have a single minded devotion to your goal
Dr. A P J Abdul Kalam

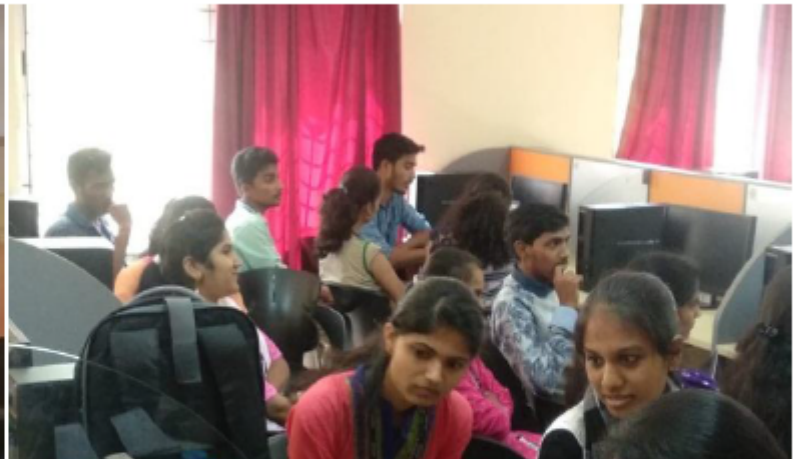
Technical Talk by Mr. Vimalan J, ADE/HOO (Chief Guest)

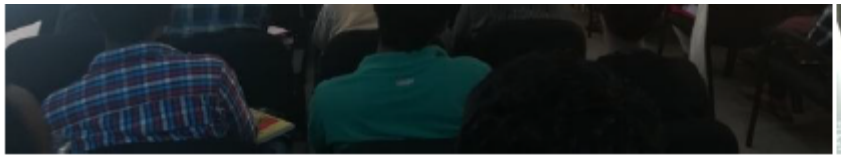
Mr. Vimalan J, ADE/HOO, All India Radio, Bhadravathi, (Chief Guest) presented a invited talk on "Satellite Communication" and interacted with the students while describing the functionality of satellite and how the satellite communication is achieved.

Two-day workshop on "EM Simulation tool for Antenna Design"

Organized a two day workshop on "EM Simulation tool for Antenna Design". The purpose of the workshop was to make undergraduate students learn about the basics of antenna design and simulation tool which would help them in completion of their final year projects. The workshop was inaugurated at 2.00pm on 17th Nov 2018 by Dr.Chaithanya Kumar M. V, Principal, PESITM. Dr.Chandrappa D. N, Head of the Department of ECE, Mr.Jagadish M, workshop co-ordinator graced the occasion. While delivering the key note address, Dr.Chaithanya Kumar M. V stressed on the importance of research in the field of microwave and antennas. He also spoke about the importance of learning simulation tool for antenna design to reduce the time and cost encountered due to man made errors during the design of antenna. Dr.Chandrappa D. N also spoke in length complimenting the contents of the key note address. He finally delivered the vote of thanks.

The balance of the day consisted of a technical talk on "The Philosophy of antennas" by Dr.Chaithanya Kumar M.V, Principal, PESITM.120 participants attended the talk. Topics such as Faraday's law, Gauss law, Maxwell's equations, electromagnetics behind antenna radiation, smart antennas, adaptive antennas was discussed. On day two – 18th Nov 2018, hands-on session on Probe fed Microstip Patch Antenna antenna design using HFSS simulation tool was conducted in two different sessions. Mr.Jagadish M, Mr.Pramod V Rampur, Mr.Shashank S Bhagwat, Faculty, Department of ECE, PESITM was involved.






NSS Activity "Swach Bharath"

As a part of NSS Activity at PESITM, Shivamogga, Staff & Students of Dept. of Electronics & Communication Engineering participated in "Swach Bharath" activity, and the outskirts of college campus (Engineering college Front Gate to Diploma College Front Gate) was cleaned up. A total of 120 Students of various semester along with teaching and non teaching staff of E&CE were present during the activity.

Photos captured during the NSS "Swach Bharath" activity by E&CE Staff and Students

NSS Activity (on 04-10-2-18), Dept. of E&CE, PESITM, Shivamogga.

EDC Cell Inauguration & Awareness program on "Innovation & Entrepreneurship Development"

EDC Cell Inauguration & Awareness program on "Innovation & Entrepreneurship Development" was organized by dept. Of ECE on about 500 students participated.

Kodagu Flood relief Fund from PES Trust Management, Staff and Students

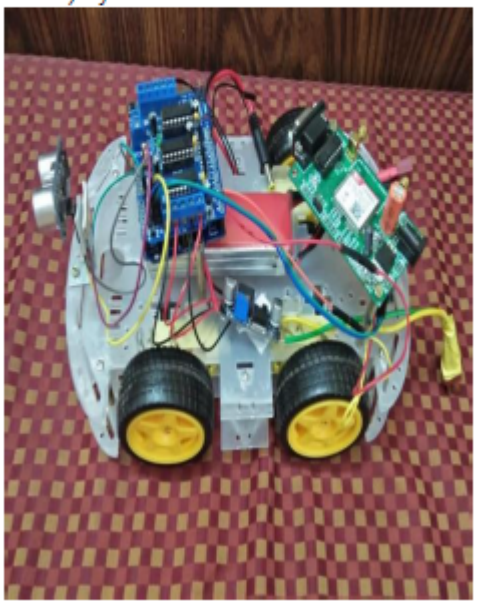
ಓಡುವ ಯಾಂತ್ರಿಕ ಬದುಕಿದು,
ಈ ಬದುಕಿಗೆ ಸಂಗಾತಿ ನೀನು.
ಸುಪ್ರಭಾತದ ಶುಭೋದಯ ನಿನ್ನಿಂದಲೇ,
ಇರುಳ ನಿದಿರೆಯ ಕದ್ದೊಯ್ಯುವುದು ನೀನೇ.
ಕಣ್ಣೆದುರಿನ ಜಗವ ಮರೆಸುವೆ,
ಜಗವನೆಲ್ಲಾ ಕೈಯಲಿರಿಸುವೆ.
ನಿನ್ನಲದೇನೋ ಅರಿಯದ ಮಾಯಾಜಾಲ,
ನನ್ನಲೇನೋ ಚಡಪಡಿಕೆ ನೀನಿಲ್ಲದ ಕ್ಷಣಕಾಲ.
ನನ್ನೆಷ್ಟೋ ಪ್ರಶ್ನೆಗಳ ಉತ್ತರ ನೀನು,
ಅಳುವ ಮನಕೆ ಸಾಂತ್ವನದ ಸಂಗೀತ ನೀನು.
ಆದರೆ, ಕಾರಣವಿರದೆ ತೊರೆದೆ ನೀನು!!
ಇದೆಲ್ಲ ಮರೆತು ಅದೆಲ್ಲಿ ಕಳೆದ್ಹೋದೆ ನೀನು??.....
ನಾನೆಲ್ಲಿ ಹುಡುಕಲಿ ನಿನ್ನ -- " ಓ ನನ್ನ ಮೊಬೈಲ್ ".

–

Padmaಶ್ರೀ

Rachana H Gowda 5th b has successfully cleared field technician- computing and peripherals with A grade.

Bluetooth control, signal tracking robot, by Harshit



Got 2nd prize in group dance 2k18 vtu fest held in angdi institute of technology, Belgaum.

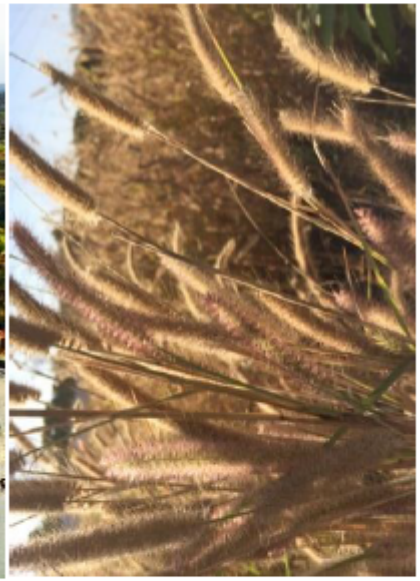
All you need to paint is a few tools, a little instruction, and a vision in your mind

Canvas/water Painting & Pencil Sketch

Nagamani Hogar

Pooja D U photography

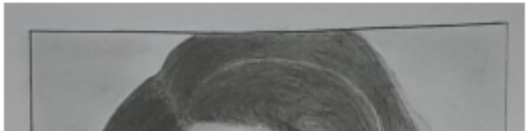
Likitha Photography

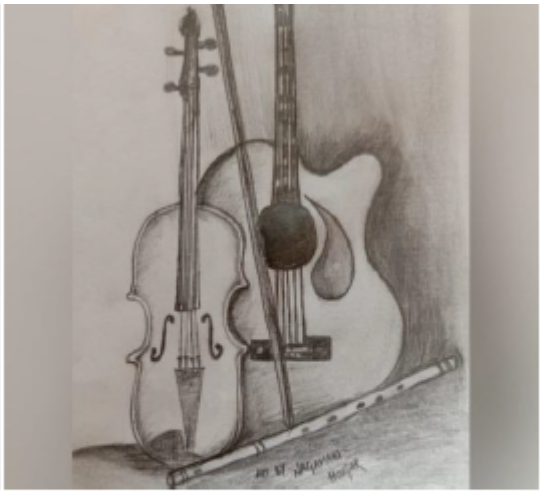


Navya Gangadharappa

Nagamani Hogar

Pencil Sketching by Sandeep 3rd sem




Books are the means by which we build bridges between Cultures
- Sarvepalli RadhaKrishnan

Volume 1, Issue 2 PESITRONICS- Imagination becomes reality Feb. 2019

Placements

Hearty Congratulations to all the Students for getting placed in the companies from the Management, Principal, teaching & non teaching Staff of E&CE, PESITM, Shivamogga.

Sl.No	Name	Company
1	NIRANJANA K	GLOBALEDGE CAMPUS DRIVE
2	SWATI HEGDE	GLOBALEDGE CAMPUS DRIVE
3	NAYANA S.U.	SLK CAMPUS DRIVE
4	APOORVA KALAL	ABC GROUP CAMPUS DRIVE
5	PRASANNA BHAT	ABC GROUP CAMPUS
6	POOJA NAVALE	ABC GROUP CAMPUS DRIVE
7	SIRIGOWRI N. H	MPHASIS CAMPUS DRIVE
8	ADITYA G RAO	MPHASIS CAMPUS DRIVE
9	INCHARA U N	MPHASIS CAMPUS DRIVE
10	SIRIGOWRI N. H	TCS - NINJA POOL CAMPUS DRIVE
11	ROHITH S	CAREER PRIME CAMPUS DRIVE
12	AMULYA H G	CAREER PRIME CAMPUS DRIVE
13	PAWAN KUMAR SINGH	CAREER PRIME CAMPUS DRIVE

14	PALLAVI Y D	CAREER PRIME CAMPUS DRIVE
15	ROHITH S	ACUVATE Campus Drive

The following are some useful web sites and links for students to enrich their skills and follow the passion

- www.indiabix.com
- www.sawaal.com
- www.edu.in
- www.testpot.com
- www.electronicsforu.com
- www.placamentpapers.com
- www.freshworld.com

poems (when heart speaks and mind listens)

ದಟ್ಟ ಮಂಜಿನಿಂದ ಯೂವಾಗಲು ತುಂಬಿರುವ..

ಆ ರಾಜ್ಯದ ಚಿಕ್ಕ ಗೂಡದು,

ಕೇಸರಿ ಬೆಳೆಯಿಂದ ತುಂಬಿ

ಕೇಸರಿಯ ಸೊಗಡನ್ನು ಸಾರುತ್ತಿದ್ದ ಜಾಗವಾಗಿದ್ದ ಆ ಪ್ರದೇಶ....

ಕ್ರೂರನರ ಮೃಗಗಳಿಂದಾಗಿ

ರಕ್ತದ ಹೊಳೆಯೇ ಹರಿಯವಂತಾಯಿತು

ಆ ರಕ್ತದ ಒಂದೊಂದು ಹನಿಯ ಬೆಲೆ ಕಟ್ಟಲಾಗದ ನಷ್ಟ

ಈ ನಷ್ಟ ತುಂಬಲಾಗದು...

ಈ ನೋವು, ದ್ವೇಷ ಅಳಿಸಲಾಗದು.....

ನಿಧಿ ಎ.ಎಂ

- Pencil Sketching by Sanath S P (7th B)

To give real service, You must add something which cannot be brought or measured with money.

- Sir. M V Visvesvaraya

Volume 1, Issue 2 PESITRONICS- Imagination becomes reality Feb. 2019

Higher Education (2018 Batch output students)

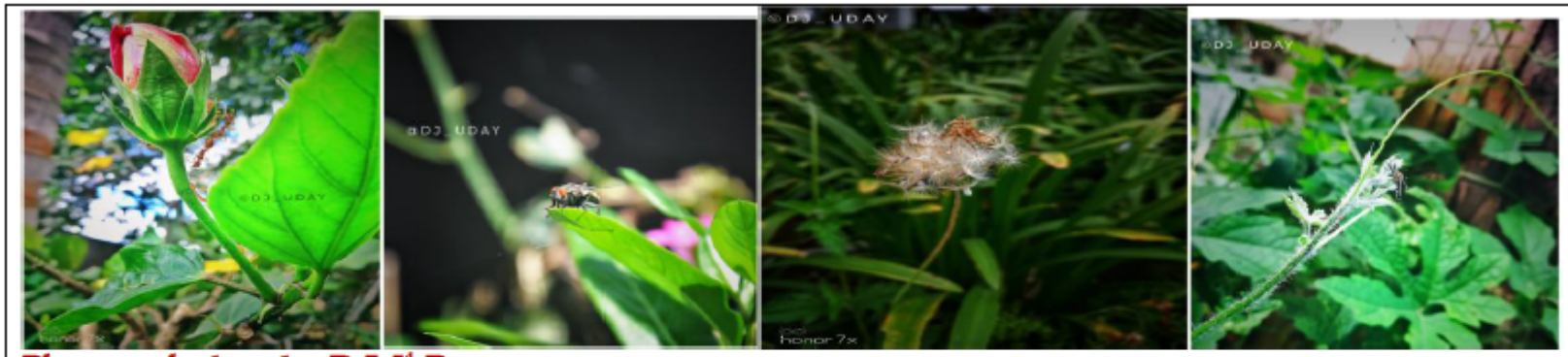
Pallavi M
Branch: mtech(DECS)
College:JNNCE
Shimoga

Name: Pooja Patil B
Branch: Digital Communication
College name: BMSCE Bangalore

Name: Meghana P S
Branch: Digital Communication
College name: BMSCE Bangalore

Name: Pawan Gowda G S
Branch: Control & Instrumentation
College name: UVCE Bangalore

Name: Alina Imtiyaz
Branch: Mtech Digital Electronics ,
College name: BVB Hubli.



Photography by uday D J 5th B

Call for Newsletter Articles

We need articles for future additions of Newsletter

Please consider providing a short item of news, or an in depth article for the next edition of the newsletter. We would like to invite everybody to submit a short story/article/announcement that can fit in the following structure.

News items and announcements –

- Short, topical, news oriented technical/ non-technical topics.
- Paintings, sketches, comics, poems, dag-writings, short stories etc.
- Major and minor technical articles are also accepted.
- Jokes, Punch dialogues, quotes of your own could be included.
- All of above said matters could be accepted in English or in kannada formats

Feel free to communicate with the student and staff coordinators for more details.

- Editor

Editorial Team (From Left to Right)

Mr. Adithya G. Rao (7th A)
Ms. Chandana P Patel (3rd A)
Ms. Deepthi S V (3rd A)
Ms. Sushmitha S M(5th B)
Ms. Priyanka(5th B)
Ms. Niharika(5th A)
Ms. Sabakausor(3rd B)
Mr. Prassanna Bhat(7th B)
Mr. Vishwanath Muddi
Dr. Chandrappa D N.
Dr. M Manoj Kumar
Mr. Kunjan D. Shinde

4.6.3 Participationininter-institute events by students of the program of study (10) Institute Marks : 8.00

SPORTS:

Sl. No	NAME	USN	Name of the Event	Venue	Year
1	PRASHANTH V L	4PM17EC066	Volleyball	PESITM SHIVAMOGGA	
2	SUHAS P	4PM17EC087	football	PESITM SHIVAMOGGA	
3	PRASHANTH S	4PM18EC401	bodybuilding	PESITM SHIVAMOGGA	
4	UDAYA REDDY	4PM17EC090	kabaddi	PESITM SHIVAMOGGA	2018-19
5	VENKATESH K S	4PM17EC093	kabaddi	PESITM SHIVAMOGGA	
6	CHETHAN G	4PM15EC022	Basket ball	PESITM SHIVAMOGGA	
7	CHETHAN K M	4PM15EC023	cricket	PESITM SHIVAMOGGA	
8	BASAVAPRABHU G	4PM17EC013	Basket ball	PESITM SHIVAMOGGA	
9	SANJAY D T	4PM15EC086	WEIGHT LIFTING	SRI SAI RAM COLLEGE OF ENGINEERING BANGALORE	2019-20

STUDENT PAPER PRESENTATION:
2016-17
LIST OF STUDENTS PAPER PUBLICATIONS

Sl. No.	Name	USN	Title of the paper	Name of the Journal/Conference /Event /Publisher
1	Deepa S	4PM13EC026	Automated Green house control system using arduino	Proceedings of NCRSEM at PESITM Shivamogga 20th May2017.
2	Swaroopa TJ	4PM12EC077	Automated Green house control system using arduino	Proceedings of NCRSEM at PESITM Shivamogga 20th May2017.
3	Sandhya MR	4PM13EC074	Automated Green house control system using arduino	Proceedings of NCRSEM at PESITM Shivamogga 20th May2017.
4	Savitha BC	4PM13EC076	Automated Green house control system using arduino	Proceedings of NCRSEM at PESITM Shivamogga 20th May2017.
5	Nithin T	4PM12EC037	Design & Development of Circular Polarized Antenna for RFID Tracking Applications	Proceedings of NCRSEM at PESITM Shivamogga 20th May2017.
6	,Nithin P	4PM12EC036	Design & Development of Circular Polarized Antenna for RFID Tracking Applications	Proceedings of NCRSEM at PESITM Shivamogga 20th May2017.

7	Kruthi S M	4PM14EC417	Design & Development of Circular Polarized Antenna for RFID Tracking Applications	Proceedings of NCRSEM at PESITM Shivamogga 20th May2017.
8	Ishwarya A Gopal	4PM12EC018	Design & Development of Circular Polarized Antenna for RFID Tracking Applications	Proceedings of NCRSEM at PESITM Shivamogga 20th May 2017
9	Pooja Patil B	4PM14EC051	Comparision of phase frequency detectors by diff logic gates and implementation	PAPYRUS- A State Level Technical Paper presentation @BIET
10	Priyanka Hooli	4PM14EC058	Comparision of phase frequency detectors by diff logic gates and implementation	PAPYRUS- A State Level Technical Paper presentation @BIET

2017-18

LIST OF STUDENTS PAPER PUBLICATIONS

Sl. No.	Name	USN	**Title of the paper**	**Name of the Journal/Conference /Event /Publisher**
1	Pooja Patil B	4PM14EC051	GSM Based Scrolling LED Display	Proceedings of NCARSEM, PESITM Shivamogga 26th May
2	Priyanka Hooli	4PM14EC058	GSM Based Scrolling LED Display	Proceedings of NCARSEM, PESITM Shivamogga 26th May
3	Bhavya AS	4PM15EC405	GSM Based Scrolling LED Display	Proceedings of NCARSEM, PESITM Shivamogga 26th May
4	Sneha GS	4PM15EC431	GSM Based Scrolling LED Display	Proceedings of NCARSEM, PESITM Shivamogga 26th May
5	Ashwini. G. M	4PM15EC402	Hazardous Gas & Mine Detecting Robot	Proceedings of NCARSEM, PESITM Shivamogga 26th May- 2018.
6	Meghana.S	4PM15EC412	Hazardous Gas & Mine Detecting Robot	Proceedings of NCARSEM, PESITM Shivamogga 26th May- 2018.
7	Akshatha. G	4PM14EC005	Hazardous Gas & Mine Detecting Robot	Proceedings of NCARSEM, PESITM Shivamogga 26th May- 2018.
8	Akshatha. C. M	4PM14EC004	Hazardous Gas & Mine Detecting Robot	Proceedings of NCARSEM, PESITM Shivamogga 26th May- 2018.
9	Mohan Kumar KN	4PM14EC043	Energy Efficient CMOS Full Adder for Arithmetic Units	@JNNCE
10	Dhanaraj Murthy V	4PM14EC022	Energy Efficient CMOS Full Adder for Arithmetic Units	@JNNCE
11	Aditya G Rao	4PM15EC001	Testing of Full Adder usinf Linear Feedback Shift Register(LFSR) Technique	@JNNCE

12	Nayana SU	4PM15EC050	Testing of Full Adder usinf Linear Feedback Shift Register(LFSR) Technique	@JNNCE

2018-19
LIST OF STUDENTS PAPER PUBLICATIONS

Sl. No.	Name	**Title of the paper**	**Name of the Journal/Conference /Event /Publisher**
1	Sanath S Nayak	Design and Performance Analysis of Multiband Microstrip Patch Antenna	
2	Rakesh Reddy	Design and Performance Analysis of Multiband Microstrip Patch Antenna	
3	Samyuktha	Design and Performance Analysis of Multiband Microstrip Patch Antenna	
4	Swathi S	Design and Performance Analysis of Multiband Microstrip Patch Antenna	
5	Fathima Safwana	Design and Performance Analysis of Microstrip Patch Antenna Arrays for ISM Band Application	
6	Inchara UN	Design and Performance Analysis of Microstrip Patch Antenna Arrays for ISM Band Application	
7	Kavya MR	Design and Performance Analysis of Microstrip Patch Antenna Arrays for ISM Band Application	
8	Nida Fareen	Design and Performance Analysis of Microstrip Patch Antenna Arrays for ISM Band Application	
9	Sushmitha SM	Design of Full adder Using Threshold Logic for Reconfigurable Architecture	National Level Technical Fest URJA-2K19, @ATME
10	Rahul R Bilagi	Design of Full adder Using Threshold Logic for Reconfigurable Architecture	National Level Technical Fest URJA
11	Priyanka U	Design of Full adder Using Threshold Logic for Reconfigurable Architecture	National Level Technical Fest URJA
12	Varsha HG	Design and Performance Analysis of Microstrip Patch Antenna Arrays for ISM Band Application	National Level Technical Fest URJA
13	Shreedevi H Patil	Design and Performance Analysis of Microstrip Patch Antenna Arrays for ISM Band Application	National Level Technical Fest URJA
14	Ranjitha S	Design and Performance Analysis of Microstrip Patch Antenna Arrays for ISM Band Application	National Level Technical Fest URJA

15	Syeda Farhathunnisa	Testing of Full adder using Linear Feedback shift Register(LFSR)technique	National Level Technical Fest URJA
16	Sowmya OG	Testing of Full adder using Linear Feedback shift Register(LFSR)technique	National Level Technical Fest URJA
17	Shilpa N	Testing of Full adder using Linear Feedback shift Register(LFSR)technique	National Level Technical Fest URJA
18	Pooja DU	Testing of Full adder using Linear Feedback shift Register(LFSR)technique	National Level Technical Fest URJA
19	Uday DJ	Women Saftey for Late night workers using Drones	National Level Technical Fest URJA
20	Ravinandan Rayabagi	Women Saftey for Late night workers using Drones	National Level Technical Fest URJA
21	Niharikha BH	Women Saftey for Late night workers using Drones	National Level Technical Fest URJA
22	Harshitha S	Women Saftey for Late night workers using Drones	National Level Technical Fest URJA

STUDENT PROJECTS SPONSORSHIP BY EXTERNAL AGENCIES

SL. NO.	USN	NAME OF THE STUDENTS	PROJECT TITLE	YEAR	NAME OF THE SPONSOR/SECTORS
1	4PM13EC061	PAVITHRA	CONVERSION OF LIP MOVEMENT	**2016-17**	**KSCST**
2	4PM13EC073	SANATAN SIRUMAN			
3	4PM13EC079	SHARATH KUMAR			
4	4PM13EC101	YUVARAJ N R			
5	4PM14EC043	MOHAMMED ZEESHAN	**ELECTRIC LINEMAN SAFETY WITH PASSWORD BASED CIRCUIT USING RASPERYPI 3BOARD**	**2017-18**	**KSCST**
6	4PM14EC046	NAVEED PASHA			
7	4PM14EC053	PRATEEK KUDALKAR			

CO- CURRICULAR ACTIVITIES

Sl. No.	USN	Name of the students	Events	Date	Name of the Program & Organizer	Awards

1	4PM14EC097	Mr. Sushanth K N	technical fest	23rd and 24th sep 2016	Two days National level technical fest " Advitiya 16	1st prize in Script Maina
2	4PM15EC409	Mr. Lingaraju H S	technical fest	23rd and 24th sep 2016	Two days National level technical fest " Advitiya 16	1st prize in Script Maina
3	4PM15EC069	Mr. Prasanna	E hothige katha sparde	10th march 2019	E hothige katha sparde bengaluru	2nd prize
4	4PM15EC060	Ms.Pallavi s	Circuit debugging	15th-16th march 2019	JIT davanagere TECHNIE 19	3rd prize
	4PM15EC087	Mr. sanjay	Circuit debugging	15th-16th march 2019	JIT davanagere TECHNIE 19	3rd prize

5 FACULTY INFORMATION AND CONTRIBUTIONS (200)

Total Marks 125.92

Name	PAN No.	University Degree	Date of Receiving Degree	Area of Specialization	Research Paper Publications	Ph.D Guidance	Faculty receiving Ph.D during the assessment year	Current Designation	Date (Designated as Prof/Assoc. Prof.).	Ini of
Dr. Chandrappa D. N	AHNPC6626L	ME/M. Tech and PhD	10/12/2014	Applied Electronics	1	4		Professor	03/08/2017	03
Dr. A Guruva Reddy	AHTPA1303N	ME/M. Tech and PhD	01/04/2011	Image Processing	2	2	1	Professor	03/12/2018	03

Dr. M Manoj Kumar	AEZPM6305B	ME/M. Tech and PhD	21/09/2015	Optical Networks	1	5		Professor	15/07/2016	15
Dr. M Madhavi	AQNPM6966C	ME/M. Tech and PhD	26/10/2017	Signal Processing		1		Associate Professor	03/12/2018	03
Mr. Hanumanthappa Magalada	ACCPH4525K	M.E/M.Tech	13/02/2013	Digital Communication and Networking				Assistant Professor		27
Mr. Mahendra S. Naik	AJZPN6363K	M.E/M.Tech	30/11/2013	Digital Communication				Assistant Professor		07
Mr. Prashanth S. B.	BDBPP7999E	M.E/M.Tech	30/11/2013	Digital electronics and communication system				Assistant Professor		21
Mr. Shashank S. Bhagwat	AYMPB1492K	M.E/M.Tech	22/11/2014	Digital electronics and communication system				Assistant Professor		21
Mrs. Rashmi T. S.	BDNPR1757E	M.E/M.Tech	22/11/2014	Digital electronics and communication system				Assistant Professor		21
Mr. Shivayogappa H. J.	FYWPS2448B	M.E/M.Tech	11/08/2014	Digital Communication	1			Assistant Professor		25
Mr. Shivaprasad B. K.	EMLPS9104N	M.E/M.Tech	30/06/2014	VLSI Design and Testing	2			Assistant Professor		10
Mr. Vishnu V. M.	AYFPV1684G	M.E/M.Tech	01/12/2015	Digital communication Engineering	1			Assistant Professor		16

Mr. VishwanathMuddi	CPKPM3693G	M.E/M.Tech	09/06/2014	VLSI DESIGN & TESTING	2			Assistant Professor		16
Mr. Jagadish M.	AVJPJ0421A	M.E/M.Tech	24/03/2015	Communication Systems	3			Assistant Professor		16
Mr. Yogeesha G.	AFTPY4805K	M.E/M.Tech	14/12/2013	Digital Electronics				Assistant Professor		16
Mr. Pramod Rampur	BDCPR4026B	M.E/M.Tech	09/04/2012	VLSI Design & ES	1			Assistant Professor		16
Mr. Amit Kumar K.	AUAPA6955A	M.E/M.Tech	18/04/2011	VLSI and Embedded System				Assistant Professor		31
Mr. Praveen Shirur	DNAPS8328P	M.E/M.Tech	09/05/2015	Micro Electronics				Assistant Professor		16
Mr. Kunjan D. Shinde	ELNPS3231R	M.E/M.Tech	22/11/2014	Digital Electronics	3			Assistant Professor		16
Mr. Nithin H. V.	AHCPN9515E	M.E/M.Tech	22/01/2014	Computer Science and Engineering				Assistant Professor		15

5.1 Student-Faculty Ratio (20)

Total Marks 10.00

Institute Marks : 10.00

UG

No. of UG Programs in the Department 1

Electronics & Communication Engg.						
Year of Study	**CAY**		**CAYm1**		**CAYm2**	
	(2019-20)		**(2018-19)**		**(2017-18)**	
	Sanction Intake	**Actual admitted through lateral entry students**	**Sanction Intake**	**Actual admitted through lateral entry students**	**Sanction Intake**	**Actual admitted through lateral entry students**
2nd Year	120	14	120	7	120	24
3rd Year	120	5	120	19	120	22
4th Year	120	17	120	22	120	31
Sub-Total	**360**	**36**	**360**	**48**	**360**	**77**
Total	**396**		**408**		**437**	
Grand Total	396		408		437	

PG

No. of PG Programs in the Department 1

Computer Science and Engineering			
Year of Study	**CAY(2019-20)**	**CAYm1(2018-19)**	**CAYm2 (2017-18)**
	Sanction Intake	**Sanction Intake**	**Sanction Intake**
1st Year	0	0	24
2nd Year	0	24	24
Total	**0**	**24**	**48**
Digital Electronics			
Year of Study	**CAY(2019-20)**	**CAYm1(2018-19)**	**CAYm2 (2017-18)**
	Sanction Intake	**Sanction Intake**	**Sanction Intake**
1st Year	0	0	24
2nd Year	0	24	24
Total	**0**	**24**	**48**
Master of Business Administration			
Year of Study	**CAY(2019-20)**	**CAYm1(2018-19)**	**CAYm2 (2017-18)**
	Sanction Intake	**Sanction Intake**	**Sanction Intake**
1st Year	60	60	60
2nd Year	60	60	60
Total	**120**	**120**	**120**
Grand Total	120	168	216

SFR

No. of UG Programs in the Department 1

No. of PG Programs in the Department 1

Description	CAY(2019-20)	CAYm1 (2018-19)	CAYm2 (2017-18)
Total No. of Students in the Department(S)	396 **Sum total of all (UG+PG) students**	432 **Sum total of all (UG+PG) students**	485 **Sum total of all (UG+PG) students**
No. of Faculty in the Department(F)	19 **F1**	18 **F2**	18 **F3**
Student Faculty Ratio(SFR)	20.84 **SFR1=S1/F1**	24.00 **SFR2=S2/F2**	26.94 **SFR3=S3/F3**
Average SFR	23.93 **SFR=(SFR1+SFR2+SFR3)/3**		
F=Total Number of Faculty Members in the Department (excluding first year faculty)			

Note: 75% should be Regular/full time faculty and the remaining shall be Contractual Faculty/Adjust Faculty/Resource persons from industry as per AICTE norms and standards. The contractual faculty will be considered for assessment only if a faculty is drawing a salary as prescribed by the concerened State Government for the contractual faculty in the respective cadre.

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

	Total number of regular faculty in the department	Total number of contractual faculty in the department
CAY(2019-20)	19	0
CAYm1(2018-19)	18	0
CAYm2(2017-18)	18	0

Average SFR for three assessment years : 23.93

Assessment SFR : 10

5.2 Faculty Cadre Proportion (25) Total Marks 21.00

Institute Marks : 21.00

Year	Professors		Associate Professors		Assistant Professors	
	Required F1	**Available**	**Required F2**	**Available**	**Required F3**	**Available**
CAY(2019-20)	2.00	3.00	4.00	1.00	13.00	15.00
CAYm1(2018-19)	2.00	2.00	4.00	0.00	14.00	16.00
CAYm2(2017-18)	2.00	2.00	5.00	0.00	16.00	16.00
Average Numbers	2.00	2.33	4.33	0.33	14.33	15.67

Cadre Ratio Marks [(AF1 / RF1) + [(AF2 / RF2) * 0.6] + [(AF3 / RF3) * 0.4]] * 12.5 : 21.00

5.3 Faculty Qualification (25) Total Marks 10.64

Institute Marks : 10.64

	X	**Y**	**F**	**FQ = 2.5 x [(10X + 4Y) / F)]**
2019-20(CAY)	4	15	19.00	13.16
2018-19(CAYm1)	2	16	21.00	10.00
2017-18(CAYm2)	2	16	24.00	8.75

Average Assessment : 10.64

5.4 Faculty Retention (25) Total Marks 25.00

Institute Marks : 25.00

Description	2018-19	2019-20
No of Faculty Retained	17	17
Total No of Faculty	18	18
% of Faculty Retained	94	94

Average : 94.00

Assessment Marks : 25.00

5.5 Innovations by the Faculty in Teaching and Learning (20) Total Marks 12.00

Institute Marks : 12.00

A. **Availability of information on the institutes websites**

i. All the innovations and best practices in teaching and learning that are developed and practiced by the faculty members are discussed in meetings and are also made available on the institute website for the benefit of teaching fraternity.

B. **Availability for peer review and critique**

i. Innovations in teaching learning are documented and made accessible to all the faculty members for their comments.
ii. Provision is also made on the institute website to give feedback / suggestions / critique on the innovations in teaching learning methods.

C. **Reproducibility and further development**

i. As innovations in teaching learning are available on the Institute website and for peer reviewing, it is recommended to adopt by other faculty members and improve upon it.

D. **Use of ICT and other appropriate methods**

i. In additional to traditional teaching learning methodologies, the faculty members adopt group discussions, relevant videos, seminars, mini projects, case studies, PPTs, real time examples, simulations, quizzes depending on the course and simulation to create the best learning environments for the students.
ii. Challenging courses are identified based on previous results for which tutorial and remedial classes are conducted.
iii. Apart from providing pedagogical training from experts to the faculty members improving traditional black board teaching, thrust is also given to promote power point presentations and Animations, referring to online resources such as NPTEL VTU e-learning and other e-learning resources, and collaborative learning and appropriate questioning techniques to keep the students engaged during the lecture session.

E. **Industrial Visits:**

Students are taken to industries to have demonstration of the real-time implementation/application of the concepts they study.

Sl. No.	INNOVATIONS IN TEACHING AND LEARNING	IMPACT ON TEACHING & LEARNING
1.	Learning With Mini- Projects & Major Projects	Helps in reducing the gap between theory & practical
2.	Open Ended Experiments On Beyond Syllabus	Significantly improves the understanding of theory concepts
3.	Learning Via Online Courses	Students learn various courses through online portals(NPTEL)
4.	LEARNING VIA Add-On courses: Department offers no. of short term value addition software programs along with normal classroom teaching during the semester.	Self-designed & well documented helps in Skill development & improving quality

Few Samples:
1.Use of working model in Engineering Electromagetics
Demonstration of coulomb's law and Faraday's law
A. Coulomb's law:
Statement: The magnitude of the electrostatic force of attraction or repulsion between two point charges is directly proportional to the product of the magnitudes of charges and inversely proportional to the square of the distance between them.
Experiment: Balloons experiment
Procedure: Consider two balloons and rub them. Charges get accumulated on the surface of charges.

1. Now balloons start to repel each other as the charges on the both the balloons are same.
2. Bring paper pieces (neutral) charge near balloons, paper pieces are attracted as unlike charges repel.

3. If the distance between the balloons is increased, force of repulsion also reduces.

B. Faraday's Law

Statement: The amount of the induced voltage is equal to the rate of change of the magnetic flux. This says that the magnitude of the voltage is equal to the change in the magnetic flux over the change in time.

Procedure:

1. Wrap the copper wire tightly around the cardboard tube to create a solenoid. Wrap as many times as you can and be sure to leave a few inches at each end to connect to the galvanometer.
2. Connect each loose end of the wire to the positive and negative terminals of the galvanometer.
3. Switch on the galvanometer.
4. Insert the magnet inside the cardboard tube and move it around. *What happens?* Record your observations.
5. Try moving the magnet faster or slower. *What happens?*
6. Turn off the galvanometer and disconnect one of the terminals.
7. Reduce the number of turns in the solenoid. Reconnect and switch on the galvanometer.
8. Insert the magnet inside the cardboard tube and move it around again.

Result: The faster the magnet moves, the more current is generated in the loop. The same is true of the coils: the more coils in the solenoid, the more current generated.

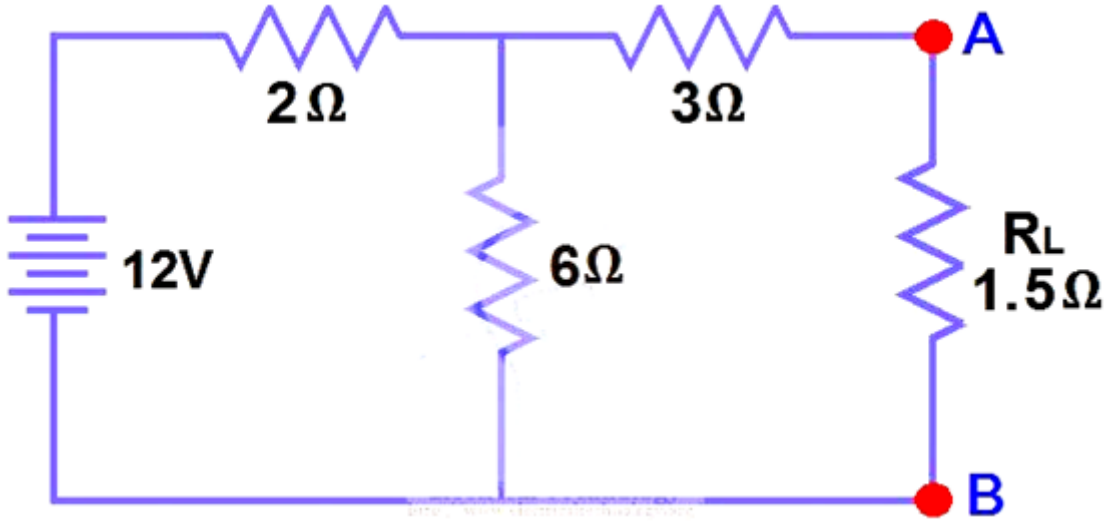
2.Use of ICT tools in Network Theory

A. **<u>Verification of network theorems</u>**

Thevenin's and maximum power transfer theorem

Thevenin's Theorem statement: It states that a linear two-terminal circuit can be replaced by a voltage source Vth in series with a resistor Rth , where Vth is the open-circuit voltage at the terminals and Rth is the input or equivalent resistance at the terminals when the independent sources are turned off."

Circuit:



Procedure:

1. Determine the current through R_L applying Thevenin's theorem.
2. Determine the current through R_L using ammeter.
3. Current in both the cases are same. Hence verifies the theorem.
4. In the Thevenin's circuit replace R_L by a pot vary the pot and measure the current and voltage across the load. When R_L is equal to Rth maximum power is received across the load.

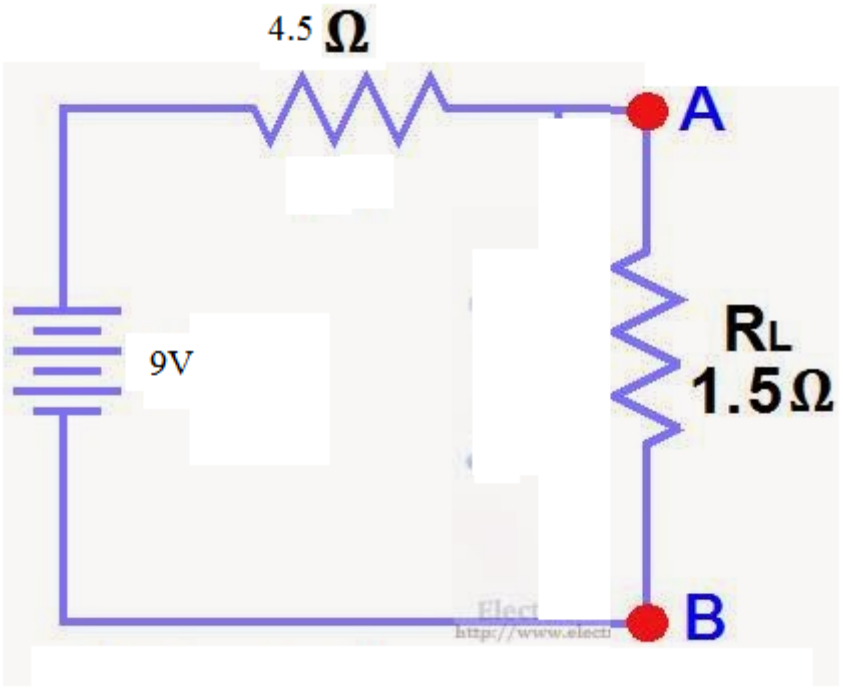


Fig 2: Thevenin's Circuit

5.6 Faculty as participants in Faculty development/training activities/STTPs (15)

Total Marks 14.28

Institute Marks : 14.28

Name of the faculty	Max 5 Per Faculty		
	2018-19 (CAYm1)	2017-18 (CAYm2)	2016-17 (CAYm3)
Dr. Chandrappa D N	0.00	5.00	0.00
Dr. M Manoj Kumar	0.00	0.00	0.00
Mr. Nithin H V	0.00	5.00	0.00

Mr. Hanumanthappa Magalada	0.00	5.00	5.00
Mr. Mahendra S Naik	5.00	5.00	0.00
Mr. Prashanth S. B.	3.00	5.00	0.00
Mrs. Rashmi T. S.	5.00	5.00	0.00
Mr. Shashank S. Bhagawat	5.00	5.00	0.00
Mr. Shivayogappa H. J.	3.00	5.00	0.00
Mr. Shivaprasad B. K.	3.00	5.00	5.00
Mr. Vishnu V. M.	0.00	5.00	5.00
Mr. VishwanathMuddi	5.00	5.00	5.00
Mr. Praveen Shirur	0.00	5.00	0.00
Mr. Jagadish M.	5.00	5.00	0.00
Mr. Pramod Rampur	3.00	5.00	0.00
Mr. Kunjan D Shinde	3.00	5.00	5.00
Mr. Yogeesha G	3.00	5.00	0.00
Mr. Amit Kumar K.	0.00	5.00	0.00
Sum	43.00	85.00	25.00

RF = Number of Faculty required to comply with 20:1 Student Faculty Ratioas per 5.1	19.80	21.60	24.25
Assessment [3*(Sum / 0.5RF)]	13.03	23.61	6.19

Average assessment over 3 years: 14.28

5.7 Research and Development (30) Total Marks 13.00

5.7.1 Academic Research (10) Institute Marks : 6.00

List of faculty members Pursuing Ph.D.

SL. NO.	Name of the faculty	Designation	Research center	Enrolment year
1	Mr. Vishnu V M	Assistant Professor	JNNCE, Shivamogga	2016
2	Mr. Prashanth S B	Assistant Professor	PESITM, Shivamogga	2017
3	Mr. Kunjan D Shinde	Assistant Professor	SDMCET, Dharwad	2017
4	Mr. Mahendra S N	Assistant Professor	NMAMIT, NITTE	2018
5	Mr. Nithin H V	Assistant Professor	PESITM, Shivamogga	2019
5	Mr. Hanumanthappa Magalada	Assistant Professor	PESITM, Shivamogga	2019
6	Mr. Shashank S Bhagwat	Assistant Professor	PESITM, Shivamogga	2019
7	Mr. Pramod V Rampur	Assistant Professor	PDA College of Engineering,Kalburgi	2019

Faculty Journal Publications
CAY 2019-20

Sl.No	Faculty Name	Title	Name of the Journal	Volume Pages/Year
1.	**Dr. Chandrappa D N**	Design and Analysis of Frequency Reconfigurable Microstrip Patch Antenna for Multi Band Operations using PIN Diodes	International Journal of Innovative Technology and Exploring Engineering (IJITEE)	Volume- 8, Issue-12, October 2019, page.No. 5026-5030.
2.	**Dr. Guruva Reddy**	Object Detection in Camouflaged Environment with Texture Statistical Features	International Journal of Recent T echnology and Engineering (IJRTE)	Volumc-8, Issue-2S3, July 2019. ISSN: 2277-3878
		Camouflaged Foreground Object Detection With Conventional Methods	Jour of Adv Research in Dynamical & Control Systems	Vol. I I, Special Issue-08, 2019, Pages: 2150-2161
3.	**Mr. Vishnu V M**	SeC-SDWSN: Secure cluster-based SDWSN environment for QoS guaranteed routing in three-tier architecture	International Journal Communication Systems	July 2019;e4020
4.	**JAGADISH M**	Design and Research of Modified Split Ring Resonator for Reduction of Mutual Coupling in Micrsotrip Patch Antenna array	International Journal of Engineering and Advanced Technology	Vol-8,issue-6, pages 3688-3691. ISSN: 2249-8958,Aug 2019
CAYm1 2018-19				
1.	**Dr. Manoj Kumar M**	Optimization of Energy in WDM Passive Optical Network	IJSRR	Volume 7, Issue 05, May 2019
2.	**Mr. SHIVAPRASAD B K**	Automatic DoorGate Lock Application based on Android App using Bluetooth	International Journal for Scientific Research & Development|	Volume 6, Issue 07, 2018. ISSN (online): 2321-0613
		EOG Based Human Machine Interface to Control Electric Devices Using Eye Movement	International Journal of Modern Electronics and Communication Engineering (IJMECE)	Volume No.-6, Issue No.-5, September, 2018. ISSN: 2321-2152
3.	**Mr. VISHWANATH MUDDI**	Automatic DoorGate Lock Application based on Android App using Bluetooth	International Journal for Scientific Research & Development|	Volume 6, Issue 07, 2018. ISSN (online): 2321-0613
		EOG Based Human Machine Interface to Control Electric Devices Using Eye Movement	International Journal of Modern Electronics and Communication Engineering (IJMECE)	Volume No.-6, Issue No.-5, September, 2018. ISSN: 2321-2152

CAYm2 2017-18				
1.	**Mr. Shivayogappa H J**	Realizing IoT Based Intelligent Automated Savvy Home System on Image Processing	International Journal of Advance Research in Science and Engineering	Volume No. 06, Issue No. 11, November 2017.ISSN: 2319-8354
2.	**Kunjan D. Shinde**	An innovative method for stitching the images for panoramic view	IOSR Journal of Electronics and Communication Engineering. (IOSR-JECE)	IOSR Journal, Mar. - Apr. 2018 Volume 13, Issue 2, Ver. I, PP 44-50 . e-ISSN: 2278-2834, p-ISSN: 2278-8735
		Optimization and Alignment of Multiple Images to Construct a Panoramic Images	IOSR Journal of Electronics and Communication Engineering. (IOSR-JECE)	IOSR Journal, Mar. - Apr. 2018 Volume 13, Issue 2, Ver. I, PP 44-50 . e-ISSN: 2278-2834, p-ISSN: 2278-8735
CAYm3 2016-17				
1.	**JAGADISH M**	Design of Hexagonal Shaped Split Ring Resonator for multi-resonant behaviour	Bonfring International Journal of Research in Communication Engineering	November 2016 Vol-6, special issue, pages 20-23. iSSN: 2277-5080,
		Design and Implementation of Advanced Array Multiplier on FPGA	International Journal of Engineering Research & Technology	August-2016 Vol-5,issue-8, pages 142-148, 2016/8. ISSN: 0974 –3154
2.	**Kunjan D. Shinde**	Smart Waste Management System	IJSEDR Journal	IJSEDR Journal Vol. 1, Issue 9, Sept. 2016 . ISSN 2455-2631
3.	**Mr. Pramod V Rampur**	Design and Implementation of Advanced Array Multiplier for Binary Multiplication on FPGA	IJERT Journal	Volume 5, Issue 8, in August 2016.

5.7.2 Sponsored Research (5)

Institute Marks : 0.00

2018-19 (CAYm1)

Project Title	Duration	Funding Agency	Amount

2017-18 (CAYm2)

Project Title	Duration	Funding Agency	Amount

2016-17 (CAYm3)

Project Title	Duration	Funding Agency	Amount

Cumulative Amount(X + Y + Z) =

5.7.3 Development Activities (10)

Institute Marks : 7.00

1.Working model of SPARK 5 Robot:
Spark V robot is based on ATMEGA16A microcontroller. Robot comes with rechargeable 7.2V 600mA NiMH Battery and onboard intelligent battery charger. It has 3 analog white line sensors, 3 analog IR Proximity sensors, 3 directional light intensity sensors, battery voltage sensing, TSOP1738 IR receiver for TV remote control and Position encoders. Robot has support for 3 MaxBotix EZ series ultrasonic range sensors. It also has support for the servo mounted sensor pod which can be used to make 180 degrees scan for the map making. Robot is powered by 6 cell 7.2V 600mA rechargeable NiMH batteries which give about 30 minutes battery operation. Robot has built-in Smart Battery Controller which charges the battery in intelligent way and also monitors the battery charge level when robot is in operation. Robot has 2x16 alphanumeric LCD, Lots of LED indicators for quick debugging, Buzzer etc. Motors are controlled by L293D motor driver.

2.SPARTN 3 FPGA Device XC-3S50-PQ208 of Xillinx Model:
Features:

- 50k System gates and 1728 logic cells
- Employs 12K distributed RAM 72K block RAM
- It is an FPGA IC in a PQFP208 pin package with 124 I/O lines

3.Working Model on TMS320C5416DSK and TMS320C6713DSK Hardware Kits

4.The 8051 evaluation board is a comprehensive aid to understand the capabilities of an advanced microcontroller like 8051 compatible ATMEL 89C51ED2.

Charts displayed in labs:
In laboratories charts pertaining to the syllabus are displayed for illustration purpose.

Following are the charts displayed in respective laboratories.

I. **Analog Electronics Lab**

a. Resistor color coding.
b. Commonly used circuit symbols.
c. Precautions to be taken while using CRO, power supply & signal generator.

II. **Digital Electronics Lab**

a. Pin diagrams of commonly used ICs.

III. **Linear ICs & Communication Lab**

a. Specification of OpAmp IC.
b. Specification of timer IC.
c. Precautions to be taken while using CRO, power supply & signal generator.

IV. **Digital Signal Processing Lab**

a. Block diagram of TMS320C6713 DSK.
b. Block diagram of TMS320C5416 DSK.

V. **Microprocessor Lab**

a. Internal Architecture of 8086 & 8255.

b. Pin diagram of 8086 & 8255.
c. Instruction set of 8086.
d. Hardware description of stepper motor, DC motor, Keypad interface, seven segment interface.

VI. **Advanced Communication Lab.**

a. Digital modulation techniques.
b. Different types of antennas.
c. Precautions to be taken while using CRO, power supply & signal generator.

VII. **Power Electronics Lab.**

a. Symbols of power semiconductor devices
b. Specification of DC motor and universal motors.
c. Precautions to be taken while using CRO, power supply & signal generator.

VIII. **VLSI Lab**

a. VLSI Design flow
b. Basic Linux commands.
c. Lambda based design rules.

5.7.4 Consultancy(from Industry) (5)

Institute Marks :

2018-19 (CAYm1)

Project Title	Duration	Funding Agency	Amount

2017-18 (CAYm2)

Project Title	Duration	Funding Agency	Amount

2016-17 (CAYm3)

Project Title	Duration	Funding Agency	Amount

Cumulative Amount(X + Y + Z) =

5.8 Faculty Performance Appraisal and Development System (FPADS) (30) Total Marks 20.00

Institute Marks : 20.00

Faculty Performance Appraisal and Development System (FPADS) is a platform where institution and its stake holders grow horizontally and vertically. It's a kind of motivation and encouragement to the faculty members to contribute towards the growth of the institution by updating themselves in all dimensions. The institution has a unique way of measurement of faculty performance and development system. As soon academic year starts the faculty appraisal format is shared by the HOD to all the teaching and non teaching staff of the department so that faculty members are well aware on the appraisal measurement criteria. Faculty is asked to indicate the predicted percentage of pass results in their handling subjects before they proceed with the teaching and learning process. The same is sent to the Human Resource (HR) department. During the month of September actual process begins where faculty members are asked to submit their self appraisal report to the HOD in a standard form which is common across the institute. At department level HOD will evaluate the report based on the criteria and one to one discussion will happen to maintain transparency. The same report is submitted to the principal for further processing for needful recommendations. Based on the appraisal and recommendations faculty members shall get salary hike/promotions/appreciations letter etc.

Implementation and effectiveness:

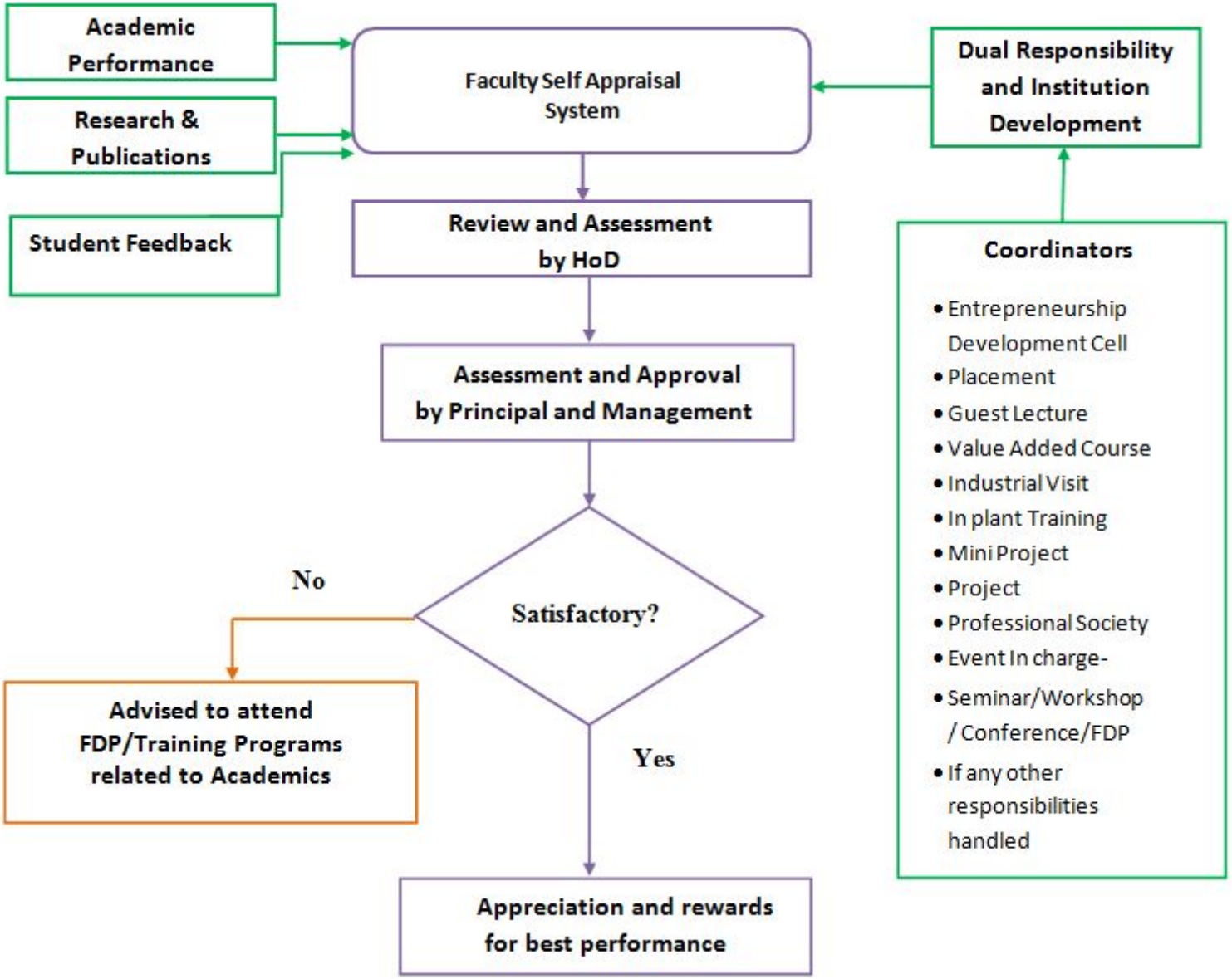
Evaluation of each and every staff members appraisal report is based the following criteria.

1. Qualifications
2. Experience
3. Students feedback
4. VTU exam results
5. Number of research papers published(National/International/Journals)
6. Number of patents filed/obtained
7. Number of projects work/dissertation and Ph.D. guided

8. Number of BE projects guided
9. Number of research projects applied/funded
10. FDPs conducted/attended
11. Details of the International/ National Conferences/ Seminars/ Workshops Conducted/ Attended
12. Pedagogy methods adopted/followed Details
13. Administrative responsibilities
14. Responsibilities on students co-curricular/extra co curricular activities
15. University duties/responsibilities

The process of performance evaluation is as follows:

1. The Faculty fills the self appraisal format and submits with necessary supporting documents to the HOD
2. The HOD evaluates and submits to the establishment section /HR department for further action
3. The establishment section/HR department consolidates and submits it to the Principal
4. The principal in consultation with HOD makes recommendations to the higher authority
5. The recommendations would be advising/encouraging , the faculty to participate in FDPs/workshops/seminars/conferences, submit proposal to funding agencies, enhance knowledge



A blank format of faculty appraisal form is as shown below

PES Institute of Technology and Management

Issue/ Rev. No: 3.0/R0	Date: 15/12/2016	Page: 1 of 6	Form No: R/PP-12/HR-0

Performance Appraisal Form 2019-2020 (01-09-2019 to 31-08-2020)

Name of the Faculty :	Department:	EMP Code:
Designation:	Date of Birth:	Date of Joining:
Mobile No:	PAN No:	Aadhar No:

1. Qualification (Starting from the latest to the earliest)

Degree	Specialisation	University	Year	Class obtained	Remarks

2. Experience (Starting from the latest to the earliest)

Designation	From DD/MM/YY	To DD/MM/YY	Total Years	Institution	Experience Certificate Y/N	Remarks

Summary:-

a) **Total Teaching experience at Degree level** ..... (PESITM ..... + other institute .....)

b) **Industrial Experience** ...../

c) **Research experience** .....

(Excluding period spent for acquiring a degree)

Additional qualification/training/expertise obtained during Current academic year.....

.....

3. Number of Research papers published (Excluding those which has been communicated) for the current year only

a. Journals – International/National Journals ...../.....

b. Conferences – International/National Conferences ...../.....

c. Number of Patents obtained/filed: International/National...../.....

(Attach a list of publication including the title of the paper, Journal in which it is published, year and month of publication, volume number, pages)

4. A. **Number of B.Tech projects/Number of ME/ Ph.D dissertations Guided in the present academic year** ...../...../.....

5. Details of Research projects applied/undertaken during the year.

Title of the project	Name of the Agency	Date of starting & duration of the project	Amount

6. Faculty Development programs conducted during the year. (pl indicate in what capacity, source of funds, Venue, No.of participants)

Name of the FDP	Date of starting/ duration	Number of participants

7. Faculty Development programs attended during the year.

Name of the FDP	Institution	Department	Date of starting/ duration

8. Details of the International/ National Conferences/ Seminars/ Attended during the year

International Conference/ Seminars/ Workshops Attended (Indicate whether the participation is as a Delegate/ Chairing a Session/ Keynote Speaker etc.)
International Conference/ Seminars Conducted (pl indicate in what capacity, source of funds, Venue)

9. Pedagogy Details (use separate sheet if required)

Teaching Methodology used :

Teaching Aids used :

Books referred and read in the subject taught :

Use of Course plan (Give details) :

Was Course material prepared? If Prepared was it used by the students? If yes give details/specifics

Was any outbound teaching used, If yes give details

Use of ICT in teaching, If yes give details:

Do you disseminate practical & expertise knowledge If yes give details

10a. Administrative responsibility (Tick wherever appropriate)

Role	Aug to Dec	Feb to July	Comments, if any
Faculty Adviser/Mentor			
Head of the Department			
Chief Warden			
Warden			
Resident Warden			
Faculty Co-coordinator of Student Activity (Mention the name of the activity)			
Member/Chair/ Co-Chair of Professional bodies like IEEE/IETE/CSI/ISTE etc.			
NBA Coordinator			
Other Activities* (Mention the type of activity)			

*(Lab in charge, counseling students, NBA assistance, calling parents with record, VTU marks entry, class teacher, mentor, lab preparation and monitoring, course coordinator, students club, self-initiation in organizing seminars, organizing industrial visits, preparing handouts, banners, ...): record to enclose

10b. Contributions to institute development in other areas / Any other information you would prefer to file (be brief and indicate each activity involved with a bullet head) Attach in a separate sheet/s if required

11. Present Academic (Theory & Practical's) work Load details (Use Separate sheet if necessary)

Semester	Odd / Even					
	Sub-1 odd/even	**Sub-2 odd/even**	**Sub-3 odd/even**	**Sub-4 odd/even**	**Sub-5 odd/even**	**Sub-6 odd/even**
Subject name with code						
Course plan						
Course file						
Subject notes						
Scheme and evaluation of all tests						
No. of hours handled						
No. of units/modules completed						
Reasons for not completing all units/modules , if any						
Projected % results at the university*						
VTU results percentage Subject: theory/analytical						
Avg IA & max IA marks scored by students						
Avg & max marks scored by students in university exam						
Justification for variations in projected & obtained results for the subject (Use Separate sheet if necessary)						

- As projected in the course plan

Assessment of the Faculty on the following Indicators :

A. Academic (Weight 50%)

10	9	8	7	6	5	4	3	2	1

[If the % results obtained in the university exam is - 96 - 100%; 91-95%; 86-90%; 81-85; 76-80%; 71-75%; 66-70%; 61-65%; 56-60%; 51-55%; & <50% then points score are, A=10; 9; 8; 7; 6; 5, 4, 3, 2, 1 & 0 respectively]

Add 15% weightage to the %results for analytical subjects

Add 10% weightage to the %results if % Avg-IA & % avg-university marks scored in the subject is within 10% of each other

Add 10% to the %results if any outbound/reinforcement teaching has been done in the subject to maximum of 100% for each subject And, further if handling two different subjects; then allot score for each - obtain Score on A and average to obtain final score under this criterion

B. Research and Consultancy (Weight 15%)

10	9	8	7	6	5	4	3	2	1

Patents Obtained : 10 points **& submission for patents** : 4 points
Journals: National: 2 points for one paper, 4 points for two papers, 5points for 3 papers and above for the current year only.
Journals : International : 5 points for one paper, 10 points for two papers in reputed journals for the current year only
Conferences : 2 points for one paper, 4 points for two papers, 5points for 3 papers and above for the current year only
Consultancy: 10 points if revenue generated beyond Rs.50000, 5 points if revenue generated below Rs.50000. for the current year only
Funds generated: 10 points if revenue generated beyond Rs.100000, 5 points if revenue generated below Rs.100000. for the current year only
Project proposal submitted: 2 points for each project submitted - subject to a maximum four points for the current year only
Total points scored on B limited to a maximum of 10

C. Faculty Development Programmers Conducted/ Attended (Weight 10%)

10	9	8	7	6	5	4	3	2	1

FDP conducted : 5 points **FDP attended** : 3 points for one FDP and 5 points for two or more FDPs

D. Seminars/ Conferences/Attended (Weight 5%)

10	9	8	7	6	5	4	3	2	1

Seminars/workshops/ symposiums conducted: 5 points
Seminars/workshops/ symposiums attended: 2 points for one event, 4 points for two events and 5 points for three or more events

E. SDP - Seminars/ Conferences/ Workshops Conducted (Weight 5%) in & outside campus

10	9	8	7	6	5	4	3	2	1

Seminars/workshops/ symposiums conducted: 5 points
: 2 points for one event, 4 points for two events and 5 points for three or more events;
add two points if the event is held outside of our institute

F. Student Co-curricular/ activity (Weight 10%)

10	9	8	7	6	5	4	3	2	1

Final year BE/MBA-project Guided at college level 2 points per project subject to a max of 4 points for projects guided;
Ph.D dissertation 4points/award of Ph.D to RS
Students club activity – 2; Students technical paper guidance/mini projects – 1/paper/mini project, subject to a max of 3 points
Total points scored on F limited to a maximum of 10

G. Student Extra-curricular activity (Weight 5%)

10	9	8	7	6	5	4	3	2	1

To allocate points as per contribution by the staff member for the current year only

Total self-assessment obtained by the staff member=

[A x 0.05 + score of Bx0.015 + score of (C+F) x0.01 + score of (D+E+G) 0.005] X 100%

Note: 1. Total calculated score should be ≤ 100%. ; 2. Submission of wrong information is liable to be rejection of the self-appraisal report. ; 3. Staff / faculty can use additional page if necessary for specific Remarks or comments.

I ..... declare that, the information enclosed/ provided is correct. For any wrong information, I will be held responsible. The above information is for the period 1ST Sept 2019 to 31st Aug 2020.

Dated : **Signature of the faculty with date**

Remarks by the HOD (use separate sheet if required) :

1. Self Assessment : (50% weight age)
2. Student Feed Back (20% weight age)
3. Contributions to institute development in other areas (10% weight age)
4. HOD's academic assessment (10% weight age)
5. HOD's administrator assessment (10% weight age)

Principal

Management

5.9 Visiting/Adjunct/Emeritus Faculty etc. (10)

Institute Marks :

6 FACILITIES AND TECHNICAL SUPPORT (80)

Total Marks 60.00

6.1 Adequate and well equipped laboratories, and technical manpower (30)

Total Marks 25.00

Institute Marks : 25.00

Sr. No	Name of the Laboratory	Number of students per set up(Batch Size)	Name of the Important Equipment	Weekly utilization status(all the courses for which the lab is utilized)	Technical Manpower Support		
					Name of the Technical staff	Designation	Qualification
1	Analog Electronics lab	20	Dual channel cathode ray oscilloscope Function Generator Dual Power Supply Decade resistance, Capacitance Inductance boxes Continuity Tester Voltmeter (0-200V),(0-20V)&(0-2V),Ammeter (0 -2 mA),(0-20mA), (0-200mA).	9hrs	Mr. Halaswamy K E	Instructor	Diploma(EEE)
2	Digital System design Lab	20	Digital Trainer Kit Digital IC Tester Linear IC Tester	9hrs	Mr. Lingaraj	Instructor	Diploma(ECE)
3	Microcontroller lab 18ECL47	20	AT89C51 Microcontroller kit, MSP 430 kit. Stepper motor, DC Motor, Matrix key board, LCD, LED Display.	9hrs	Ms. Priya K	Instructor	BE(E&CE)
4	HDL lab 17ECL58	20	Universal Multi-Vendor Development Kit Xilinx FPGA Kits -400K Gate Density ACER PC system 10KVA UPS, D-Link 24 port 10/100 switches, 4 unit rack, D-Link Category 6 Cable Box.	9hrs	Ms. Priya K	Instructor	BE(E&CE)

5	DSP Lab 17ECL57	20	ACER PCs DSP Starter Kits TMS-320 C6713 Development Board with 512K Flash and 8MB SDRAM and Software's with power supply 10KVA UPS D-Link 24 port 10/100 switches, 4 unit Rack, D-Link Category 6 Cable Box.	9hrs	Mrs.Nagashree B	Instructor	Diploma
6	Analog Circuit Lab 18ECL48	20	Good Will Instek GOS-630 FC,30 MHz 2 channel colour LCD Display Digital Storage Oscilloscope 3 MHz function Generator with Voltage Display 2 Channel 180W,DC Power Supply Arbitrary Function Generator DSO 70 MHz Tektronix	9hrs	Mr. Halaswamy K E	Instructor	Diploma(EEE)
7	Advanced communication lab 15ECL7	20	Digital Storage Oscilloscope. Microwave Test bench frequency 8.22 to 12.4 GHz. Microstrip Antenna Trainer Kit. X band Microstrip Components. Microwave Signal Source frequency 4.00 to 6.00 GHz. PCM Generation & Detection Using CODEC Chip Kit, ASK, FSK, PSK, DPSK, QPSK, TDM Modulation & Demodulation Kits, Fiber optics trainer kit. Optical power meter. TDM MODULES.	9hrs	Mr. Halaswamy K E	Instructor	Diploma(EEE)
8	Embedded Controller Lab 17ECL67	20	ACER PC System PC Add on 48 Lines I/O Card Model: ESA ECI DIOT. Microprinter , 24 Col Dot Matrix Printer Model: ESA, µP 24P, 4*4 Matrix Hex Key pad Interface. 4-Digital, 7 Segment LED Display Interface Logic Controller Interface Stepper Motor Interface with Stepper Motor & Power Adapter. 10KVA UPS D-Link 24 port 10/100 switches, 4 unit Rack, D-Link Category 6 Cable Box.	9hrs	Ms.Sneha B M	Instructor	BE(E&CE)
9	VLSI Lab 15ECL77	20	Licensed 2012 Virtuoso® Version CADENCE Tools for 20 Users. ACER PC System.	9hrs	Ms.Sneha B M	Instructor	BE(E&CE)
10	Computer Network Lab 17ECL68	20	NCTUns software ACER PC system	9hrs	Mrs. Nagashree B	Instructor	Diploma

11	Project lab	12	Acer Systems with Major electronics devices	6hrs	Mr. Lingaraj	Instructor	Diploma(ECE)

6.2 Additional facilities created for improving the quality of learning experience in laboratories (25) Total Marks 15.00

Institute Marks : 15.00

Sr. 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	Seminar Hall	Fully equipped shared seminar hall with Computer, Projector, White Board, Fan, Cushion chair, Microphone, Speaker, LED lights, Podium.	To present technical talk/ project seminars/ research papers/ workshops/ industry interaction presentation. Overall development of students like cultural, sports activities etc,	Per Semester 12 hrs	To bridge the band gap between academic and industry curriculum. To upgrade students to industry standard. Cultural and sports activities.	PO5
2	Lab Manuals along with instruction classes For all the labs	Manuals are provided for Analog Electronics, Digital Electronics, HDL, Microcontroller, Microprocessor, AC +LIC, Advanced communication, Power Electronics and VLSI labs.	To create an awareness about the experiment and to educate the need of conducting the same. Students can understand concept of the experiment better. To document the same using the relevant data. Throughout the semester	Throughout the semester	Design of Electronic circuit and testing. Better usage of software tools.	PO1
3	E Journals, E- books facility	IEEE, Springer, Elsevier Science	For research/ project/internship activities. To know about recent trends in science and technology. Update the subject knowledge using various books and journals.	Throughout the semester	Engineering and Technology /Medical. Automotive, Solar, Metro Electronics/Agriculture Engineering.	PO2

4	English learning language class	The English faculty is deputed to teach Basic English for the first year students to make them to understand .regular engineering concepts clearly.	To increase communication skill among students.	Per semester 20 hrs	Better Communication and understanding English language	PO10
5	Departmental Library	Having collection of Text Books, CD's, Reference, Books and Project / seminar report.	To meet the needs of students To provide reference facilities To refer advanced information for seminar, laboratory projects	Throughout the semester	Student learning process	PO1
6	Research and Development lab and Project lab	Mini and Major project models-guided by our faculty members in various fields of engineering. Open source software's like Lab View, P spice, Keil micro vision, Xilinx 9.1i, Micro wind.	Real time application To create innovative ideas To build the creative skills Motivates student to come up with projects/products.	Throughout the semester	Prototype models are developed, Automotive electronics Home automation Safety electronics models are developed Publishing Quality Technical papers	PO1 to PO12
7	Video's From NPTEL, Classle, VTU Edusat	Displayed in the Lab.	Understanding the Video oriented Teaching and learning.	Per semester 15 hrs	Better Understanding the subject. In depth knowledge beyond Lab.	PO 5

6.3 Laboratories: Maintenance and overall ambiance (10) Total Marks 8.00

Institute Marks : 8.00

Laboratories: Maintenance and overall ambiance

Maintenance:

1. Do's and Don'ts and Safety measures rules are displayed in each laboratory.
2. Well Technical Staff are available for maintenance of Electronic equipments and software.
3. Department having four 10 KVA UPS, 240 VDC along with Batteries is used in case of power failure in the PC system Labs.
4. Servicing of each laboratory is doing frequently.
5. Calibration of the each laboratory is done frequently.

6. Department having internet of 100 Mbps and Wi-Fi of 35 Mbps is maintained for students and Faculty usage.
7. All necessary PC system regular software like Microsoft office, browser, lab software; antivirus software etc, is installed and maintained.

Ambiance:

1. Department has Full furnished State of Art laboratories with well equipped equipments which shall cater to UG courses as per curriculum requirements.
2. Conditions of chairs/benches are in good condition. Chair with desk are provided for individual students in Labs.
3. Department has experienced faculty to educate them in all the fields of engineering.
4. All the labs are conducted and evaluated every week. .
5. Labs are equipped with sufficient hardware and licensed software to run program specific curriculum and off program curriculum.
6. Laboratory manual are distributed to students.
7. Sufficient number of windows is available for ventilation and natural light and every lab has one exit.
8. Lighting system is very effective, along with the natural light in every corner of the rooms.
9. Cup-boards are available in each lab for students to place their belongings.
10. Each Lab is equipped with white/black board, computer, Internet, and such other amenities.
11. Research laboratory/dept library is available 24X7 for all faculties and students to carry research work and projects.
12. Exclusively, a project lab has been provided for the students to carry out their mini and major project work.

6.4 Project laboratories (5) Total Marks 4.00

Institute Marks : 4.00

Project Laboratory

Sr. No.	Name of the Facilities	Utilization
1.	Matlab licensed version software and DSP kits in DSP lab – 20 user	UG students, Research Scholars and Faculty members utilize for their mini projects, projects, and research activities.
2.	VLSI - Cadence licensed software in VLSI Lab – 20 user	UG students, Research Scholars and Faculty members utilize for their mini projects, projects, and research activities
3.	Keil micro vision 3 free version software tool and Microcontroller 8051, MSP 430 kit in Microcontroller Lab	UG students, Research Scholars and Faculty members utilize for their mini projects, projects, and research activities
4.	Antenna and microwave components in communication system Lab	UG students, Research Scholars and Faculty members utilize for their mini projects, projects, and research activities
5.	Xilinx free version software for designing and verifying codes of digital logic.	UG students, Research Scholars and Faculty members utilize for their mini projects, projects, and research activities
6.	P-Spice free version software for implementation of power circuits.	UG students, Research Scholars and Faculty members utilize for their mini projects, projects, and research activities
7.	Lab view free Version software	UG students, Research Scholars and Faculty members utilize for their mini projects, projects, and research activities
8.	Project seminar hall which includes projector, PC system, software, audio systems.	UG students, Research Scholars and Faculty members utilize for their mini projects, projects, and research activities presentation.
9.	R & D Lab	UG students, Research Scholars and Faculty members utilize the R & D Lab for their projects and research activities
10.	Project Lab	UG students, Research Scholars and Faculty members utilize the R & D Lab for their mini projects, projects, and research activities

6.5 Safety measures in laboratories (10) Total Marks 8.00

Institute Marks : 8.00

Sr. No	Laboratory Name	Safety Measures
1	Analog Electronics Lab	Do’s and Don’ts board Electrical Wires are protected by MCB,RCBO and fuses First aid Kit Proper grounding Fire Extinguisher
2	Digital Electronics Lab	Do’s and Don’ts board Electrical Wires are protected by MCB,RCBO and fuses First aid Kit Proper grounding Fire Extinguisher
3	Microprocessor Lab	Do’s and Don’ts board Electrical Wires are protected by MCB,RCBO and fuses First aid Kit Proper grounding
4	Linear ICs and Communication Lab	Do’s and Don’ts board Electrical Wires are protected by MCB,RCBO and fuses First aid Kit Proper grounding Fire Extinguisher
5	DSP Lab	Do’s and Don’ts board Electrical Wires are protected by MCB,RCBO and fuses First aid Kit Proper grounding
6	HDL Lab	Do’s and Don’ts board Electrical Wires are protected by MCB,RCBO and fuses First aid Kit Proper grounding
7	Embedded Controller Lab	Do’s and Don’ts board Electrical Wires are protected by MCB,RCBO and fuses First aid Kit Proper grounding
8	Computer Networks Lab	Do’s and Don’ts board Electrical Wires are protected by MCB,RCBO and fuses First aid Kit Proper grounding
9	Advanced Communication Lab	Do’s and Don’ts board Electrical Wires are protected by MCB,RCBO and fuses First aid Kit Proper grounding Fire Extinguisher
10	VLSI Lab	Do’s and Don’ts board Electrical Wires are protected by MCB,RCBO and fuses First aid Kit Proper grounding

11	Project Work	Do’s and Don’ts board Electrical Wires are protected by MCB,RCBO and fuses First aid Kit Proper grounding Fire Extinguisher

7 CONTINUOUS IMPROVEMENT (50)

Total Marks 35.00

7.1 Actions taken based on the results of evaluation of each of the POs & PSOs (20)

Total Marks 16.00

Institute Marks : 16.00

POs Attainment Levels and Actions for Improvement- (2018-19)

POs	Target Level	Attainment Level	Observations
PO 1 : Engineering Knowledge			
PO 1	2.1	2.07	Target not achieved Awareness of Mathematics and Engineering fundamentals in Engineering problems
1. Workshop on Deep learning and PCB design tools was conducted on 23rd to 27th July 2018. 2. Remedial Classes should be conducted for 4th semester analytical subjects. 3. NPTEL videos on “Semiconductor Memories” on 07/09/2018. 4. Theory behind stepper motor and dc motor on 12/04/2019. 5. Technical talk on “Applications of Signals and systems” by Dr. M Madhavi on 05/04/2019. 6. Technical talk on “Generation of microwave oscillation by TWT magnetron and reflex klystron” by Dr. Chandrappa D N on 02/08/2018.			
PO 2 : Problem Analysis			
PO 2	2.1	1.95	Target not achieved Enhanced ability to analyze the assigned problems is desirable
1. Incorporation of more numerical during their regular lectures. 2. Technical talk on “Satellite communication” by Vimalan J, Assistant Director, IBES on 10/10/2018. 3. Workshop on Deep learning and PCB design tools was conducted on 23rd to 27th July 2018. 4. Remedial Classes should be conducted for 4th semester analytical subjects. 5. NPTEL videos on “Semiconductor Memories” on 07/09/2018. 6. Theory behind stepper motor and dc motor on 12/04/2019. 7. Technical talk on “Applications of Signals and systems” by Dr. M Madhavi on 05/04/2019. 8. Technical talk on “Generation of microwave oscillation by TWT magnetron and reflex klystron” by Dr. Chandrappa D N on 02/08/2018.			
PO 3 : Design/development of Solutions			
PO 3	2.1	1.94	Target not achieved Design solutions for Engineering problems

1. Technical talk on “Satellite communication” by Vimalan J, Assistant Director, IBES on 10/10/2018. 2. Technical talk on “Optical networking and applications” by Dr. Murlidhar Kulkarni, Professor, ECE Department, NITK, Surathkal on 08/02/2019. 3. Workshop on EM SIMULATOR was conducted on 17th and 18th November, 2018.			
PO 4 : Conduct Investigations of Complex Problems			
PO 4	2.1	1.98	Target not achieved. Better exposure on Complex problem analysis needs to be provided.
Technical talk on “Satellite communication” by Vimalan J, Assistant Director, IBES on 10/10/2018. Technical talk on “Optical networking and applications” by Dr. Murlidhar Kulkarni, Professor, ECE Department, NITK, Surathkal on 08/02/2019. Workshop on EM SIMULATOR was conducted on 17th and 18th November, 2018.			
PO 5 : Modern Tool Usage			
PO 5	1.8	2.02	Target Achieved. Up-gradations of tools and resources are necessary to meet the industry standards and research.
1. Workshop on EM SIMULATOR was conducted on 17th and 18th November, 2018. 2. Demonstrated the use of Modern tools like MATLAB, Arduino, LabView, Cadence etc. to specify fulfillment of requirement in engineering applications in new industrial era.			
PO 6 : The Engineer and Society			
PO 6	1.8	2.08	Target achieved. Investigation of problems faced by society was addressed.
1. Real-world projects have been carried out by the students of the Department like Woman security system. 2. Technical talk on “Satellite communication” by Vimalan J, Assistant Director, IBES on 10/10/2018. 3. Technical talk on “Optical networking and applications” by Dr. Murlidhar Kulkarni, Professor, ECE Department, NITK, Surathkal on 08/02/2019.			
PO 7 : Environment and Sustainability			
PO 7	1.8	2.12	Target achieved. The issues of global and environmental awareness among the student should be improved.
1. Swach Bharath Abiyan was organized as NSS activity on 05/10/2018. 2. Students have visited Government Primary School, Srirampura to explain about the adaptation of electronics for day to day life on 02/03/2019.			
PO 8 : Ethics			
PO 8	1.8	2.03	Target achieved.

1. Talk on ‘Professional ethics and responsibilities’ was delivered by Mr. Shivayogappa H.J			
PO 9 : Individual and Team Work			
PO 9	1.8	2.14	Target achieved.
1. Students are given mini projects to groom the individual and teamwork skills.			
PO 10 : Communication			
PO 10	1.8	1.85	Target achieved. The communication, presentation and report writing skills are to be further improved among the students.
1. Group discussions, seminars, presentations and soft skills training programs are organized to enhance the aspects of communication/skills. 2. Students are encouraged to present technical papers in conferences.			
PO 11 : Project Management and Finance			
PO 11	1.8	1.53	Target not achieved.
1. Few courses of curriculum give knowledge of Management principle and applying managerial principles. 2. The awareness created among the student regarding the management principles and managing projects.			
PO 12 : Life-long Learning			
PO 12	1.8	1.72	Target not achieved.
1. Teachers are encouraged to highlight the allied areas of Electronics and communication engineering to keep pace with contemporary technology. 2. Students are encouraged to present technical papers in conferences.			

PSOs Attainment Levels and Actions for Improvement- (2018-19)

PSOs	Target Level	Attainment Level	Observations
PSO 1 : Analyze and design analog & digital circuits or systems for a given specification and function.			
PSO 1	1.95	2.12	Target achieved.
1. Workshop on Deep learning and PCB design tools was conducted on 23rd to 27th July 2018. 2. NPTEL videos on “Semiconductor Memories” on 07/09/2018. 3. Students have performed mini projects in the subjects Linear Integrated Circuits, Analog Circuits, Digital Circuits.			
PSO 2 : Implement functional blocks of hardware-software co-designs for signal processing and communication applications			
PSO 2	1.95	1.89	Target not achieved.
1. Technical talk on “Applications of Signals and systems” by Dr. M Madhavi on 05/04/2019. 2. Technical talk on “Generation of microwave oscillation by TWT magnetron and reflex klystron” by Dr. Chandrappa D N on 02/08/2018. 3. Technical talk on “Satellite communication” by Vimalan J, Assistant Director, IBES on 10/10/2018. 4. Workshop on EM SIMULATOR was conducted on 17th and 18th November, 2018.			

7.2 Academic Audit and actions taken thereof during the period of Assessment (10) Total Marks 6.00

Institute Marks : 6.00

To ensure the quality of the program academic audits and actions are taken periodically. The details of the audit are mentioned below.

Auditing	Frequency	Specific Audit	Auditor
ISO	Twice in an year	Teaching Learning Process, Student performance, Student/ Faculty activities, Placements, Maintenance of Lab	Internal/ External
Academic Audit	Once per semester	Teaching Learning Process	Internal
Laboratory Maintenance	Once in an year	Stock and Lab Equipments	Lab Incharge

Teaching Learning Process includes following details

1. Calendar of events
2. Individual time table
3. Syllabus
4. Class list
5. Lab batch list, lab records
6. Lesson plan
7. Attendance register

8. Model question papers / previous university question papers
9. Assignment questions
10. Quiz question papers
11. Result analysis
12. Tutorial student list (Coaching class list)
13. Counseling and mentoring records
14. Additional resources to students (notes, PPT, etc.)
15. Co-curricular Activities: Seminar/Conference/workshop/Guest Lecture conducted and attended, Industrial Visits
16. Faculty Achievements: Paper publications, Monograph patents, Books etc.,
17. List of COs and CO-PO Mapping.
18. Attainment details
19. Action taken report for slow learners and fast learners.

Auditing	Details	2019-20	Auditor
ISO	Feedback	No non conformance found. Suggested to collect more acknowledgment from parents.	Dr. Pramod Pai
	Actions Taken	Mentors are informed to collect the acknowledgements from parents of respective mentees.	
Teaching Learning Process	Feedback	Proper course file should be maintained for lab.	Dr. A Guruva Reddy Dr. Manu Dr. Chandrappa D N
	Actions Taken	Course coordinators are asked to maintain course file for labs.	
Laboratory Maintenance	Feedback	Stock registers should be updated periodically.	Mr. Vishwanth Muddi Mr. Prashanth S B Mrs. Shamala S C
	Actions Taken	HOD instructed lab instructors to update stock registers periodically.	

Auditing	Details	2018-19	Auditor
ISO	Feedback	No non conformance found.	Dr. G M Sudharshan Dr. Pramod Pai Mr. Chandrashekar K L Dr. Sendhil G
	Actions Taken	-	
Teaching Learning Process	Feedback	Include more demo sessions. Availed leaves must be mentioned in attendance registers.	Dr. Manu G R Dr. Chandrappa D N
	Actions Taken	Faculty members are instructed to update the details in attendance registers.	
Laboratory Maintenance	Feedback	Service details of the equipments to be properly maintained.	Mr. Vishwanth Muddi Mr. Prashanth S B

	Actions Taken	HOD instructed lab instructors to maintain a file of service details of equipments.	Mrs. Shamala S C
Auditing	Details	2017-18	Auditor
ISO	Feedback	No non conformance found. The reason for deviation in lesson schedule should be mentioned. Syllabus coverage should be mentioned in IA timetable module wise.	Dr. Prasanna Kumar H R Mr. Vinay Hegde Mrs. Yajnodbhavi H.M Mr. Gurudev Hiremath
	Actions Taken	HOD has informed the faculties in department meeting to update the lesson schedule accordingly. Syllabus coverage of each subject should be mentioned in timetable.	
Teaching Learning Process	Feedback	Lesson schedule should be planned properly. Time Table and extra classes engaged must be mentioned in attendance register. Actions should be taken to improve the performance of slow learners.	
	Actions Taken	Faculties are instructed to prepare lesson schedule such that the deviation between planned date and conducted date should be minimum. All the fields in the attendance register should be filled. Remedial classes may be conducted for slow learners in analytical subjects. Question banks should be provided to students. Teachers are asked to suggest suitable learning methods for slow learners.	Dr. M Manoj Kumar
Laboratory Maintenance	Feedback	Inward and outward registers should be maintained.	Mr. Vishwanth Muddi Mr. Prashanth S B Mrs. Shamala S C
	Actions Taken	HOD instructed lab instructors to maintain inward and outward registers.	

PES Institute of Technology and Management

Issue/ Rev. No: 3.0/R0	Date: 15/12/2016	Page: 1 of 1	Form No: R/ MR/08

Internal AuditReport

Audit No.: 11	Date : 23/03/19	Report No.: 14	Page No.: 01

1. Process/ Department: EAC

2. Auditor: Dr. G.M Sudharshan & Dr. Pranodh Pai | Auditee : Dr. Chandrappa D.N

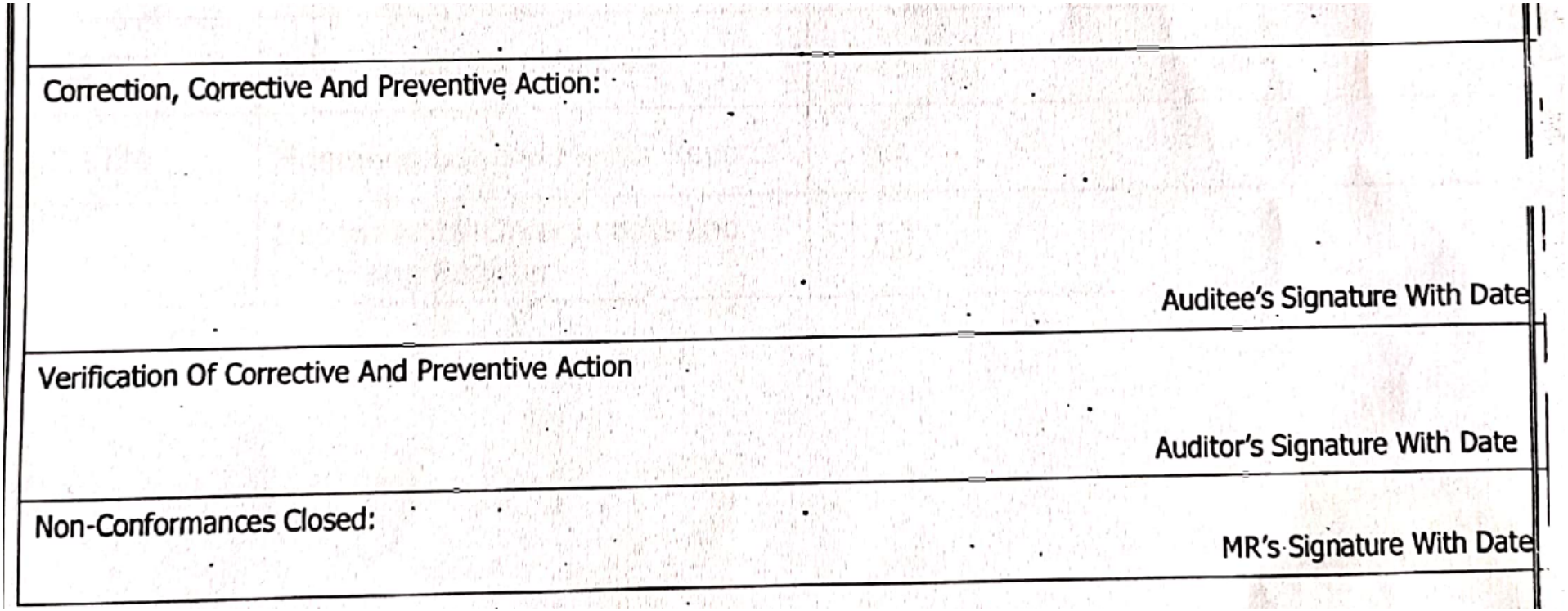
3. Observations Indicating Non-Conformances	Std/ Doc. Ref	Proposed Corrective Action & Date
NO NC's		

Pranodh U Pai 23/3/19. Sudhir 23/3/19
Auditors Signature With Date

Non-Conformances Accepted

23/3/19
Auditee's Signature With Date

Root Cause:



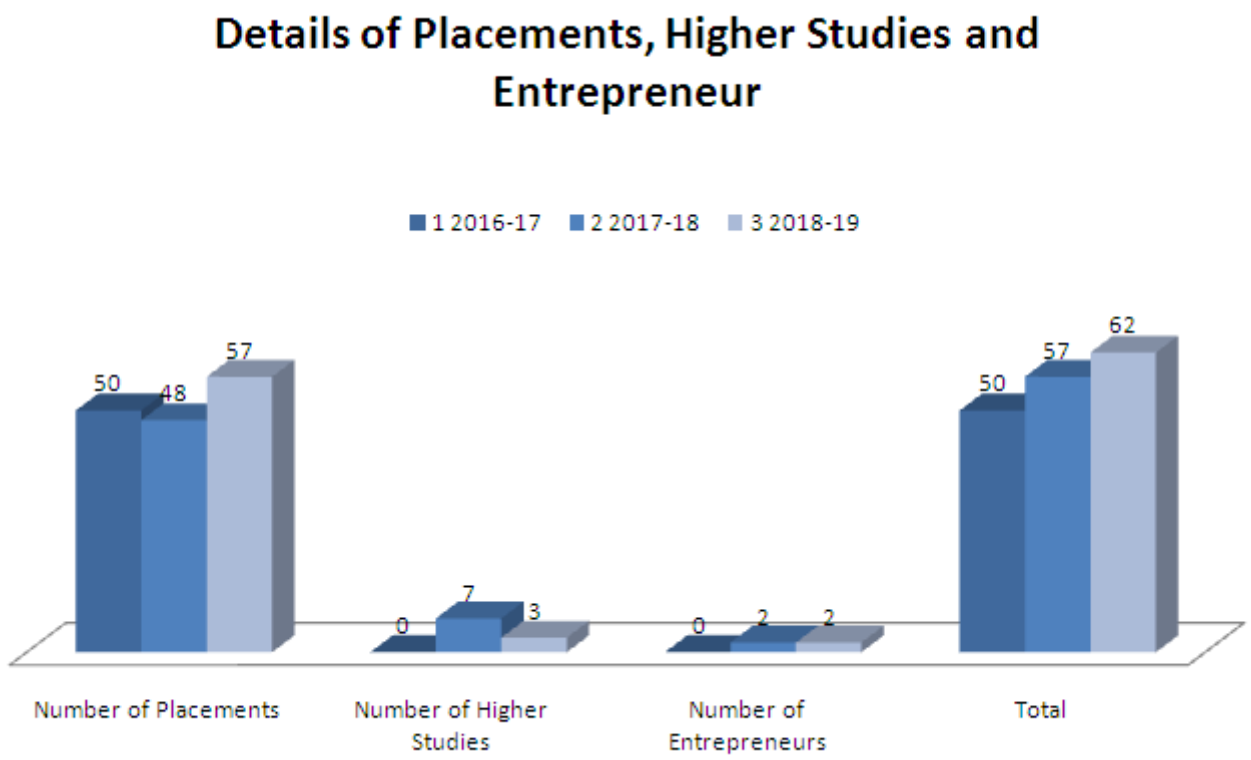
7.3 Improvement in Placement, Higher Studies and Entrepreneurship (10)

Total Marks 8.00

Institute Marks : 8.00

The assesement is based on,
1.Improvement in placements
2. Improvement in higher studies
3. Improvement in enterpreneurs

Sl. No	Academic Year	Number of Placements	Number of Higher Studies	Number of Entrepreneurs	Total
1	2016-17	50	-	-	50
2	2017-18	48	7	2	57
3	2018-19	57	3	2	62



Placement details are given below

Academic Year :2018-2019					
Sl. No.	**Name of the student placed**	**USN**	**Name of the Employer**	**Appointment letter with reference number**	**CTC**
1	Yashaswini M	4PM15EC113	Infosys	HRD/3T/19-20/13080445	3.6LPA
2	Kavya M R	4PM15EC034	Accord Software	Offer letter	3.6LPA
3	Sirigowri N. H	4PM15EC097	MPHASIS , TCS	MPHTH2019-0559 TCSL/DT20184520225	3.36 LPA
4	Swati Shreepada Hegde	4PM15EC108	TCS	TCSL/DT20184642428	3.36LPA
5	Sumitha J	4PM15EC102	TCS	TCSL/DT20184520027	3.36 LPA
6	Nayana S.U.	4PM15EC050	SLK	Offer letter	3.2LPA
7	Mahendra	4PM15EC043	Orbitycs Technologies	OT/BLR/HR/00066	3.2LPA
8	Niranjana K	4PM15EC053	Globaledge	Offer letter	3LPA
9	Prasanna Bhat	4PM15EC069	Consilient Technologies	Offer letter	3LPA
10	Aditya G Rao	4PM15EC001	MPHASIS ,TCS	MPHTH2019-0557, DT20184520291	2.5 LPA
11	Inchara U N	4PM15EC032	MPHASIS	MPHTH2019-0556	2.5 LPA

12	Nishad Khanum Suri	4PM15EC055	Heraizen	Offer letter	2.50 LPA
13.	Amulya H G	4PM15EC005	Career Prime	Offer letter	2 LPA
14.	Chethan K M	4PM15EC023	Aegis	SAP ID-0804487	2.16 LPA
15	Namrata Patter	4PM15EC048	Intugine Technologies	Offer Letter	1.8LPA
16.	Anusha Bhatta	4PM16EC401	Anmerkung	ASPLBN0318	1.20LPA
17.	Malini B NaiK	4PM16EC410	Anmerkung	Offer letter	1.20LPA
18	Rakshitha Cu	4PM15EC075	Riiit-Jobkart, Rooman	Offer letter	0.96LPA
19.	Pooja M L	4PM15EC063	Tech Mahindra	EMP ID-669032	
20.	Swathi S	4PM15EC107	RIIIT-Jobkart	Offer letter	
21.	P H Shwetha	4PM15EC058	RIIIT-Jobkart	Offer letter	
22.	Pooja Navale	4PM15EC067	ABC Group	Offer letter	
23.	Apoorva Kalal	4PM15EC008	ABC Group	Offer letter	
24.	Priya S Khadi	4PM16EC419	Micro Precision	Offer letter	
25.	Rohan J R	4PM15EC077	Blue Stream	EMP ID-BSPS463	
26.	Drusti N G	4PM15EC027	Service Provider	EMP ID card	
27.	Laxmi Hirabayi	4PM15EC038	UTS Global	UST/SO00055586-1-1-1/675620	
28.	Archana K	4PM15EC010	IIHT Limited	Employer letter	
29.	Sanath S P	4PM15EC084	Dataweave	Emp ID – T066	
30.	Ashwini Baragali	4PM15EC015	Replicon	Emp ID – TR10107	
31.	Harshitha L P	4PM15EC031	Business Solution Intenational	Emp ID card	
32.	Priya K	4PM16EC418	PESITM	Emp ID card	
33.	Suma H M	4PM15EC100	Accenture	C8385774	3.75LPA
34.	Chaitra G C	4PM15EC019	Infinite Computer Solution Ltd	ICSL/Independent Consultant/8123/4480/30122019	2.5LPA
35.	Akkamma	4PM15EC003	Fidrox	Offer letter	1.44LPA

36.	Akash Thakur	4PM15EC002	Mindtree	Offer Letter	2.52LPA
37.	Chadrashekara Maruti	4PM15EC020	Prerana Motors	Emp ID card	
38.	Kishore K S	4PM15EC037	Viewwiser Technologies	Payslip	2.5LPA
39.	Keshava H	4PM15EC036	TCS	Emp ID - 347031	
40.	Fathima S	4PM15EC028	Pincore Technologies	PTIPL.TC.0719.AO25	
41.	Muskan Banu	4PM15EC047	Pacecom	PTPL0506	
42.	Pallavi V Shet	4PM15EC060	TCS	TCSL/DT20184589549/1338211/Bangalore	
43.	Sagar N M	4PM15EC081	KPGCo	Payslip	2.43LPA
44.	Roja M R	4PM15EC078	Mobinius	Emp ID –M20292	
45.	Sanjay Y	4PM15EC087	Concentrix	Appointment Letter	
46.	Nayan Shivam	4PM15EC049	Authbridge	ARS/HRD/LT/48	
47.	Pradeep H P	4PM16EC417	PSI	Qualified Letter	
48.	Manjunath B	4PM16EC411	PSI	Qualified Letter	
49.	Pallavi Y D	4PM15EC059	Global Edge	Emp ID card	
50.	Shameel Irshad	4PM15EC090	OPPO	Offer Letter	2.14LPA
51.	Sinchana N	4PM15EC095	PSP Inovators	Offer Letter	1.44LPA
52.	Nayana D Acharya	4PM16EC415	Make Over	Emp ID- MF/201014392	
53.	Pooja P R	4PM15EC064	Gallagher	Offer Letter	
54.	Samyukta	4PM15EC082	Gallagher	Offer Letter	
55.	Supriya J T	4PM15EC104	Gallagher	Offer Letter	
56.	Suma N M	4PM15EC101	Gallagher	Offer Letter	
57.	Supriya L T	4PM15EC105	Tech Mahindra	Offer Letter	

Academic Year:2017-2018					
Sl. No.	**Name of the student placed**	**USN**	**Name of the Employer**	**Appointment letter with reference number**	**CTC**
1	Shruthi Shanbhaga	4PM14EC082	Playsimple	Payslip	5.17LPA
2	Akshatha C M	4PM14EC004	Congnizant	12761203	3.83LPA
3	Bindu M S	4PM14EC015	Congnizant	12761250	3.83LPA
4	Nagamani G Bhat	4PM14EC044	Accenture	C8350593	3.75LPA
5	Arun Kumar S K	4PM14EC013	Cenduit	Offer letter	3.74LPA
6	Poornima B Patil	4PM15EC418	Avankia	Offer letter	3.6LPA
7	Harshitha M S	4PM14EC028	TCS	TCSL/DT20184828867/Bangalore	3.36LPA
8	Usha M T	4PM14EC105	Mind Tree	V201705	3.5LPA
9	Akshatha G	4PM14EC005	Nttdata	Offer letter	3LPA
10	Tabassum	4PM14EC103	SLK Software	Offer letter	2.82LPA
11	Sushanth	4PM14EC097	Bosch	Offer letter	2.8LPA
12	Venkat Bhat	4PM15EC437	Mphasis	APPS/1074013/07703662/bangalore/september/v0	2.5LPA
13	Tanzeela Banu	4PM14EC104	Genx Technologies	HR/1006/2019/260619/7	2.5LPA
14	Dhanaraj Murthy	4PM14EC022	6th Energy	Offer letter	2.3LPA
15	Mohammad Shoaib	4PM14EC041	Randstad Pvt Ltd.	EMP code-1351230	2.49LPA
16	Priyanka J K	4PM14EC059	Eminds	offer letter	1.91LPA
17	Sushmitha M	4PM14EC101	DXC.Technology	Offer letter	1.8LPA
18	Nagamani H A	4PM15EC414	Shine	Offer letter	1.7 LPA
19	Meghana S	4PM15EC412	Shine	pay slip	1.42LPA
20	Pragathi N P	4PM14EC052	Nttdata	EMP ID-181100	
21	Kavana R A	4PM14EC032	Mindtree	EMP ID card	
22	Juhi Gupta	4PM14EC030	Valuelabs	EMP ID-101297	
23	Somashekar H C	4PM14EC090	Wipro	EMP ID-20070348	
24	Sushma H B	4PM14EC098	Bluestream	EMP ID-BSPS439	
25	Rashmi R Pai	4PM14EC067	Mphasis	EMP ID-2359516	
26	Brincita Prima Cutina	4PM14EC016	Sankalp Semiconductors	EMP ID-2177	
27	Prathik S P	4PM14EC055	Nest Away	EMP ID-E1895	
28	Jagath Jog	4PM14EC029	Unizen Technologies	EMP ID-20190210	

29.	Karthik S	4PM15EC408	Pixel	J-10	
30.	Akshatha S	4PM14EC006	Mphasis	EMP ID-2367534	
31.	K Shwetha	4PM14EC031	Synergy	Offer letter	
32.	Naveed Pasha	4PM14EC046	Tata Elxsi	EMP ID-21466	
33.	Murthy K	4PM15EC413	Starmark	EMP ID-1205	
34.	Sagar Nadig	4PM14EC070	Accenture	7259889318	
35.	Sushma J	4PM14EC099	Global Edge	Offer letter	
36.	Shradda P Jain	4PM14EC079	Source One	E3722	
37.	Ranjitha Pandit	4PM14EC066	Amazon	pay slip	
38.	Spandashri	4PM14EC093	UST Global	Offer letter	
39.	Shruthi L P	4PM14EC081	Block Gemini	IN31	
40.	Vishal Hatti	4PM15EC439	Melstar	MITU/PRSNL/19-20	
41.	Shreedevi Bagewadi	4PM14EC080	JV Mandal's Polytechnic	Experience letter	
42.	Vinay G	4PM15EC438	Blue Stream	BSPS438	
43.	Mohan Kumar K N	4PM14EC043	Si2chip	Offer Letter	
44.	Shwetha S M	4PM14EC084	Ionidea	Emp Id-0201973	
45.	Sahana J B	4PM14EC071	Eazywrkz Technologies	Offer letter	
46.	Rajat R	4PM14EC062	Inube Software Solutions	Offer letter	
47.	Vineeth M	4PM14EC108	Cattleya Technosys	EMP ID-NTS000157	
48.	Adinath	4PM15EC400	6th Energy	C117	2.04LPA

Academic Year: 2016-17					
Sl. No.	**STUDENT NAME**	**USN**	**Name of the Employer**	**Appointment Letter/reference number**	**CTC**
1.	Tejas R	4PM13EC092	Magna Infotech	Offer letter	5LPA
2.	Shivaprasad S C	4PM13EC081	Rockwell Collins	Offer letter	4.64LPA
3.	Shivakumar P	4PM14EC436	Sutherland	Offer Letter	4.5LPA
4.	Amrutha K R	4PM13EC005	Nts Technology Services	Pay Slip	4.2LPA
5.	Aditya J	4PM13EC002	Innovations	Pay Slip	3.96 LPA
6.	Suma S	4PM13EC086	Talism	Offer letter	3.7LPA
7.	Chaitra C	4PM13EC021	Csc Corp	2019IND39604_5	3.51LPA
8.	Chakravarthi Parthasarathi	4PM13EC022	Kohler	Offer Letter	3.5LPA
9.	Pavitra	4PM13EC061	TCS	TCSL/DT20184188566	3.36LPA
10.	Shreyas S	4PM13EC082	Tech Mahindra	696626/1479734/ELTP	3.25LPA
11.	Azeema Khanum	4PM13EC013	Tech Mahindra	696646/1480811/ELTP	3.25LPA
12.	Ranjitha	4PM13EC070	Tech Mahindra	1480816/ELTP/2017	3.25LPA
13.	Shilpashree H S	4PM13EC080	Tech Mahindra	Offer letter	3.25LPA
14.	Swati K J	4PM13EC091	Tech Mahindra	696646/1480866/ELTP	3.25LPA
15.	Nikhil R S	4PM13EC057	Tech Mahindra	696646/1479806/ELTP	3.25LPA
16.	Veeresh C S	4PM13EC095	KPIT	offer letter	3.25LPA
17.	Swasthika T N	4PM13EC090	Cognizent	12651567	3.38LPA
18.	Pooja S P	4PM13EC064	Cognizent	12651508	3.38LPA
19.	Kruthi S M	4PM14EC0417	Pozibility Technologies	Offer letter	3.07LPA
20.	Usha S R	4PM13EC094	Genpact	SDS001004-1981267	3LPA
21.	Nisarga Chawan	4PM13EC059	Ethnus	Offer letter	2.4LPA

22.	Raga C	4PM13EC067	Quess	QS1378797	2.37LPA
23.	Mahalaxmi M	4PM13EC043	Quadgen	HR/WIR/OL/2019/117	2.3LPA
24.	Harsha H K	4PM14EC412	I-Source Infosystems	ISIPL/HR/2018/12/9642/	2.12LPA
25.	Maheen	4PM13EC044	Innov	201838474	2.04 LPA
26.	Navami G S	4PM13EC053	5barz	Offer letter	2LPA
27.	Vishwanath A N	4PM14EC442	Sequential Technology International	Offer letter	1.95LPA
28.	Veena H J	4PM14EC440	People Source	Offer letter	1.56LPA
29.	Anusha Shetty	4PM13EC009	Skypro	Offer letter	1.33LPA
30.	Chaithra S R	4PM13EC020	TCS	TCSL/DT20184148292/1087373/Bangalore	
31.	Bharath A	4PM13EC016	Globaledge	Emp ID	
32.	Shwetha R	4PM14EC437	Needs	Offer letter	
33.	Nithin V	4PM13EC060	Deluxe India Private Ltd	Offer letter	
34.	Neha Taslim	4PM13EC055	Vattra	Offer letter	
35.	Hareesh C R	4PM13EC032	Doc & U	Offer letter	
36.	Sachin G	4PM13EC072	Continental	Offer letter	
37.	Divya U	4PM13EC028	Quess	Offer letter	
38.	Savitha B C	4PM13EC076	Istrac	Offer letter	
39.	K Chandrashekar	4PM13EC038	Cientra	Offer letter	
40.	Hitesh Karath	4PM13EC035	Flyvi Technologies	Offer letter	
41.	Bharath Hegde	4PM13EC015	PCC	Offer letter	
42.	Arpitha	4PM13EC011	Semtronics	Offer letter	
43.	Bharath R P	4PM14EC407	Rooman	Offer letter	
44.	Praveen K	4PM13EC066	CMS	Offer letter	

45.	Anusha K S	4PM13EC007	DXC.Technology	Offer letter	
46.	Chandan R	4PM13EC023	Wipro	Offer letter	
47.	Vidyashree T	4PM13EC096	Cognizant	Offer letter	
48.	Poornima S	4PM13EC065	Ikya Human Capital Solutions	Offer letter	
49.	Azar M Khan	4PM13EC014	Harman	Offer letter	
50.	Pooja S L	4PM14EC426	ALP Consulting	Offer letter	

Higher Studies details are given below

Academic Year: 2018-2019				
Sl. No.	**STUDENT NAME**	**USN**	**Course**	**Name Institution**
1	Alfiya Imtiyaz	4PM15EC007	M.Tech	KLE, HUBLI
2	Smitha S	4PM15EC098	M.Tech	JNNCE, Shimoga
3	Seema Taranum	4PM15EC088	M.Tech	JNNCE, Shimoga

Academic Year: 2017-2018				
Sl. No.	**STUDENT NAME**	**USN**	**Course**	**Name Institution**
1	Meghana P S	4PM14EC039	M.Tech (Digital Communication)	BMSCE
2	Alina Imtiaz	4PM14EC007	M.Tech(VLSI Design)	KLE University
3	Pallavi M	4PM14EC049	M.Tech (DECS)	JNNCE, Shivamogga
4	Pooja Patil	4PM14EC051	M.Tech (Digital Communication)	BMSCE
5	Ravikumar	4PM14EC068	M.Tech	SIT, TUMKUR
6	Prateek Kudalkar	4PM14EC053	MBA	BMS, Bangalore
7	Sandesh V	4PM14EC075	PGDM,GIBS	College Id

Enterpreneur details are shown below

Academic Year: 2018-2019				
Sl. No.	**STUDENT NAME**	**USN**	**Course**	**Name Institution**

1	Ramappa J	4PM16EC422	Enterpreneur	License Number – 10019914000013
2	Jagadeesh K R	4PM16EC408	Enterpreneur	Digital Marketing

Academic Year: 2017-2018				
Sl. No.	**STUDENT NAME**	**USN**	**Course**	**Name Institution**
1	Shivasharma	4PM14EC078	Entrepreneur	Corporate Id - U93090KA2019PTC119982
2	Subbramanya	4PM15EC433	Entrepreneur	License ID-226/2016-17

7.4 Improvement in the quality of students admitted to the program (10)

Total Marks 5.00

Institute Marks : 5.00

Item		**2019-20**	**2018-19**	**2017-18**
National Level Entrance Examination	No of students admitted	0	0	0
GATE	Opening Score/Rank	0	0	0
	Closing Score/Rank	0	0	0
State/ University/ Level Entrance Examination/ Others	No of students admitted	82	92	90
Karnataka Common Entran	Opening Score/Rank	25415	18103	11737
	Closing Score/Rank	214592	205029	153677
Name of the Entrance Examination for Lateral Entry or lateral entry details	No of students admitted	15	7	24
Karnataka Diploma Commo	Opening Score/Rank	6276	6626	5535
	Closing Score/Rank	16081	18597	17767
Average CBSE/Any other board result of admitted students(Physics, Chemistry&Maths)		69	75	79

8 FIRST YEAR ACADEMICS (50) Total Marks 37.07

8.1 First Year Student-Faculty Ratio (FYSFR) (5)

Please provide First year faculty information considering load for the particular program

Name of the faculty member	PAN No.	Qualification	Date of Receiving Highest Degree	Area of Specialization	Designation	Date of joining	Teaching load (%)			Currently Associated (Yes / No)	Nat Ass (Re Cor
							CAY	CAYm1	CAYm2		
Dr. Aveesh S.	ALUPT7731J	M.Sc. and PhD	14/03/2010	Differential Geometry	Associate Professor	18/07/2016	22	22	22	Yes	Reg
Dr. Chandru K	AZGPC8846B	M.Sc. and PhD	15/02/2019	Differential Geometry	Assistant Professor	29/01/2018	22	22	22	Yes	Reg
Mr. Umeshaiah	ABLPU8326K	M.Sc	23/02/2008	Mathematics	Assistant Professor	04/09/2008	22	22	22	Yes	Reg
Mrs. Veda L K	AIQPV0071N	M.Sc	17/03/2004	Mathematics	Assistant Professor	16/02/2009	22	22	22	Yes	Reg
Mrs. Swathi V.	FZEPS8237P	M.Sc	24/03/2016	Mathematics	Assistant Professor	16/07/2015	22	22	22	Yes	Reg
Mr. Shreyas M.	FPPPS6592G	M.Sc	07/08/2019	Mathematics	Assistant Professor	29/07/2019	22	0	0	Yes	Reg
Dr. Shivakumar	AECPK7375N	M.Sc. and PhD	02/05/2000	Chemistry	Professor	01/08/2007	22	22	22	Yes	Reg
Dr. Praveen ku	BHQPP3039N	M.Sc. and PhD	13/08/2013	Chemistry	Assistant Professor	27/01/2014	22	22	22	Yes	Reg
Ms. Roopa C. I	DDRPR9742F	M.Sc	02/12/2017	Industrial chemistry	Assistant Professor	07/08/2017	22	22	22	Yes	Reg

Dr. Pramod G	AXZPP7633A	M.Sc. and PhD	09/01/2007	Aerosol Physics	Associate Professor	01/02/2010	22	22	22	Yes	Reg
Ms. Ramya K	DVRPK0646F	M.Sc	19/03/2014	Solid State Physics	Assistant Professor	19/08/2013	22	22	22	Yes	Reg
Mrs. Rashmi H	CFFPR5329D	M.Sc	09/03/2011	Solid state physics	Assistant Professor	31/07/2017	22	22	22	Yes	Reg
Mrs. Deeksha I	BILPK2238J	MA	12/03/2013	English Literature	Assistant Professor	16/07/2018	22	0	0	Yes	Reg
Dr. Archana M	BDMPA5992B	M.Sc. and PhD	15/02/2019	Fluid Mechanics	Assistant Professor	25/07/2018	0	22	0	No	Reg
Mrs. Vasavi G.	AZCPV9665P	M.Sc	24/03/2016	Mathematics	Assistant Professor	16/07/2015	0	0	22	No	Reg
Abhipsa A Y	AKHPY7506L	M.Sc	24/03/2016	Chemistry	Assistant Professor	29/01/2018	0	0	22	No	Reg
Shruthi G S	GXGPS1448D	M.Sc	18/06/2013	Chemistry	Assistant Professor	18/07/2016	0	0	22	No	Reg
Narendra Babu	AWCPN1195P	M.Sc	12/03/2018	Solid state physics	Assistant Professor	22/08/2017	0	0	22	No	Reg
Mr. Chethan B	AOTPC5115P	M.E/M.Tech	03/05/2014	VLSI AND Embedded System	Assistant Professor	21/07/2014	22	22	22	Yes	Reg
Mrs. Shymala S	AMJPC3468P	M.E/M.Tech	04/05/2014	VLSI AND Embedded System	Assistant Professor	08/08/2013	22	22	22	Yes	Reg
Mrs. Yajnodbha	ALQPY8597B	M.E/M.Tech	19/10/2013	Transportation Engineering	Assistant Professor	06/09/2010	22	22	22	Yes	Reg
Mrs. Pooja Y. E	CPGPP0160K	M.E/M.Tech	23/07/2015	Earthquake Engineering	Assistant Professor	06/02/2017	22	22	0	Yes	Reg

Mrs Neetha H I	ASBPN6858L	M.E/M.Tech	05/04/2013	Energy System	Assistant Professor	25/07/2012	22	22	22	Yes	Reg
Mr. Shanthveer	GAYPS9826J	M.E/M.Tech	08/09/2018	Electrical and Electronics Engineering	Assistant Professor	23/07/2018	22	0	0	Yes	Reg
Ms. Nayana K	AMXPN1818Q	M.E/M.Tech	05/04/2013	Information Communication Tachnology	Assistant Professor	24/01/2011	22	22	22	Yes	Reg
Ms. Ashwini S	AVRPA8448E	M.E/M.Tech	03/05/2014	Computer Science Engineering	Assistant Professor	21/07/2016	22	22	22	Yes	Reg
Mr. Kailash Ru	BOLPK0162B	M.E/M.Tech	03/05/2014	Computer Science Engineering	Assistant Professor	21/07/2014	22	22	22	Yes	Reg
Mr. Malathesh	BSXPD3158G	M.E/M.Tech	21/01/2017	Mechanical Engineering	Assistant Professor	18/07/2016	22	22	22	Yes	Reg
Mr. Koushik P.	CXMPP8138D	M.E/M.Tech	03/02/2015	Mechanical Engineering	Assistant Professor	16/07/2015	22	22	22	Yes	Reg
Mr. Mahanthes	BTGPM0265H	M.E/M.Tech	05/05/2016	Mechanical Engineering	Assistant Professor	18/07/2016	22	22	22	Yes	Reg
Mr. Amruth P.	BBOPA3504R	M.E/M.Tech	05/05/2016	Mechanical Engineering	Assistant Professor	16/07/2015	22	22	22	Yes	Reg
Mr Vishwas S	AKHPV5924B	M.E/M.Tech	05/04/2013	Mechanical Engineering	Assistant Professor	27/07/2012	0	22	22	No	Reg
Mr. Nandan N.	AGBPN8960H	M.E/M.Tech	06/06/2009	Civil Engineering Environmental Engineering	Assistant Professor	17/09/2007	0	0	22	Yes	Reg
Dr. Sendhil G	BSMPS7164N	M.A and Ph.D	15/02/2012	VOLLEYBALL	Assistant Professor	04/09/2008	16	16	16	Yes	Reg

Chandrashekh	AIOPC5400E	M.Phil	01/02/2008	ELECTRONIC RESOURCES	Assistant Professor	01/08/2007	16	16	16	Yes	Reg

Year	Number Of Students(approved intake strength) N	Number of Faculty members(considering fractional load) F	FYSFR (N/F)	*Assessment= (5*20)/FYSFR(Limited to Max.5)
2017-18(CAYm2)	120	6	20	5
2018-19(CAYm1)	120	6	20	5
2019-20(CAY)	120	6	20	5
Average	120	6	20	5

8.2 Qualification of Faculty Teaching First Year Common Courses (5) Total Marks 5.00

Institute Marks : 5.00

Year	x (Number Of Regular Faculty with Ph.D)	y (Number Of Regular Faculty with Post graduate Qualification)	RF (Number Of Faculty Members required as per SFR of 20:1	Assessment Of Faculty Qualification [(5x + 3y) / RF]
2017-18	5	22	6	15.00
2018-19	5	23	6	15.00
2019-20	6	23	6	16.00

Average Assessment: 15.33

8.3 First Year Academic Performance (10) Total Marks 6.07

Institute Marks : 6.07

Academic Performance	2019-20	2018-19	2017-18
Mean of CGPA or mean percentage of all successful students(X)	6.43	6.69	6.69
Total Number of successful students(Y)	83.00	81.00	91.00
Total Number of students appeared in the examination(Z)	92.00	90.00	96.00
API [X*(Y/Z)]	5.86	6.02	6.34

Average API[(AP1+AP2+AP3)/3] : 6.07

Assessment [1.5 * Average API] : 6.07

8.4 Attainment of Course Outcomes of first year courses (10) Total Marks 8.00

8.4.2 Record the attainment of Course Outcomes of all first year courses (5) Institute Marks : 3.00

8.4.2 Attainment of Course Outcomes of all first year courses CAYm1 (2018-19)

Course Outcomes of First Year Subjects

Course Name and Code: Calculus & Linear Algebra [18MAT11]	
Semester : 1	**Academic Year :2018-19**
After studying this course, a student will be able to	
CO101.1	***Apply*** the Knowledge of calculus to ***solve*** the problems related to curvature and ***evaluate*** partial derivatives to ***estimate*** maxima and minima of multivariable functions.
CO101.2	***Define*** the concept of multiple Integrals to ***Evaluate*** area, volume and to ***solve*** problems on improper integrals.
CO101.3	***Solve*** first order ordinary linear/Non linear differential equation and able to ***apply*** in different engineering applications.
CO101.4	***Use*** matrices techniques for ***solving*** system of simultaneous linear equations, Eigen values and Eigen vectors of the matrix.

Course Name and Code: ENGINEERING PHYSICS [18PHY12/22]	
Semester : 1/2	**Academic Year :2018-19**
After studying this course, a student will be able to	
CO102.1	Understand various types of oscillations and their implications, the role of Shock waves in various fields
CO102.2	Study and recognize the elastic properties of materials for engineering applications
CO102.3	Realize the interrelation between time varying electric field and magnetic field, the transverse nature of the EM waves and their role in optical fiber communication.

CO102.4	Learn the basics of quantum physics. Apprehend theoretical background of laser, construction and working of different types of laser and its applications in different fields
CO102.5	Understand various electrical and thermal properties of materials like conductors, semiconductors and dielectrics using different theoretical models.

Course Name and Code: Basic Electrical Engineering [18ELE13]	
Semester : 1	**Academic Year :2018-19**
After studying this course, a student will be able to	
CO103.1	Understand the significance of Ohms law and their different applications
CO103.2	Understand the concepts of generation of single and three phase voltages
CO103.3	Analyze the importance of transformers and electrical wiring in engineering field
CO103.4	Understand the concepts of Direct current and different types of generator, motors and their industrial applications
CO103.5	Analyze the working of AC Generator with their working principal and its importance in power plant

Course Name and Code: Elements of Civil Engineering & Mechanics [18CIV14/24]	
Semester : 1/2	**Academic Year :2018-19**
After studying this course, a student will be able to	
CO104.1	Mention the applications of various fields of Civil Engineering and compute the resultant of given force system subjected to various load.
CO104.2	Comprehend the action of forces, moments and other loads on systems of rigid bodies and Compute the reactive forces and effects that develop as a result of the external loads.
CO104.3	Locate the centroid and compute the moment of inertia of regular and built-up sections.
CO104.4	Express the relationship between the motion of bodies and analyze the bodies in motion.

Course Name and Code: Engineering Graphics [18EGDL15/25]	
Semester : 1/2	**Academic Year :2018-19**
After studying this course, a student will be able to	
CO105.1	Identify the importance of computer aided sketching and orthographic projection of Points and lines.
CO105.2	Produce the sketch for projection of plane surfaces.
CO105.3	Use the knowledge of sketching to represent projection of solid surfaces.
CO105.4	Understand the importance of Lateral surfaces and able to sketch Development of given isometric drawings of simple objects.

Course Name and Code: ENGINEERING PHYSICS LABORATORY [18PHYL16/26]	
Semester : 1/2	**Academic Year :2018-19**
After studying this course, a student will be able to	

CO106.1	Apprehend the concepts of interference of light, diffraction of light using laser light
CO106.2	Apprehend the concepts of radiation, resistance, Fermi energy and understand the principles of operation of dielectic material, optical fibres, Photodiode and Transistor using simple circuits
CO106.3	Determine elastic moduli and moment of inertia of given materials with the help of suggested procedures
CO106.4	Recognize the resonance concept and its practical applications
CO106.5	Understand the importance of measurement procedures, honest recording and representing the data and reproduction of final results

Course Name and Code: Basic Electrical Engineering Laboratory [18ELEL17/27]	
Semester :1 **Academic Year :2018-19**	
After studying this course, a student will be able to	
CO107.1	Select a suitable measuring instrument for measuring electrical quantities for a given application
CO107.2	Design the circuit and analyze different types of connections in single and three phase electrical system.

Course Name and Code: Technical English-I [18EGH18]	
Semester : 1 **Academic Year :2018-19**	
After studying this course, a student will be able to	
CO108.1	Use grammatical English and essentials of language skills and identify the nuances of phonetics, intonations and flaw less pronunciation.
CO108.2	Implement English vocabulary at command and language proficiency.
CO108.3	Identify common errors in spoken and written communication.
CO108.4	Understand and improve the non verbal communication and kinesics.
CO108.5	Perform well in campus recruitment, engineering and all other general competitive examination.

Course Name and Code: Advanced Calculus & Numerical Methods[18MAT21]
Semester : 2 **Academic Year :2018-19**
After studying this course, a student will be able to

CO109.1	***Develop*** the applications of multivariate calculus to understand the solenoidal and irrotational vectors and also exhibit the interdependence of line, surface and volume integrals.
CO109.2	***Demonstrate*** various physical models through higher order differential equations and ***solve*** such linear ordinary differential equations.
CO109.3	***Construct*** a variety of partial differential equations and solution by exact methods/method of separation of variables.
CO109.4	***Explain*** the applications of infinite series and obtain series solutions of ordinary differential equations. ***Apply*** numerical methods in the modeling of engineering problems.

Course Name and Code: ENGINEERING CHEMISTRY [18CHE12/22]	
Semester : 1/2	**Academic Year :2018-19**
After studying this course, a student will be able to	
CO110.1	To Understand free energy in equilibria and electrochermical energy systems
CO110.2	Comprehend the causes and effects of corrosion of metals and control of corrosion.
CO110.3	Explain production and consumption of energy for industrialization and consumption of solar energy for different useful forms of energy
CO110.4	Analyze the environmental pollution, waste management and water chemistry
CO110.5	Identify the different techniques of instrumental methods of analysis of given solution, Foundamental principles of nano materials.

Course Name and Code: C Programming for Problem solving [18CPS13]	
Semester : 1/2	**Academic Year :2018-19**
After studying this course, a student will be able to	
CO111.1	Comprehend basics of computer hardware, software and overview of C.
CO111.2	Apply conditional and looping constructs to write C program.
CO111.3	Illustrate Arrays, data types, expressions, control statements, functions, file and I/O operations
CO111.4	Design iterative and recursive functions for computational problems. Illustrate usage of C library.
C0111.5	Use Structures, Pointers and Preprocessor directives in problem solving.

Course Name and Code: Basic Electronics [18ELN14]	
Semester : 1/2	**Academic Year :2018-19**
After studying this course, a student will be able to	
CO112.1	Describe the operation of diodes, BJT, FET and operational amplifiers
CO112.2	Design and explain constructions of rectifiers, regulators, amplifiers and oscillators
CO112.3	Describe the general operating principles of scr and its application
CO112.4	Explain the working and design of fixed IC voltage regulator using 7805 and a stable oscillator using timer IC555.

CO112.5	Different number conversions and construct simple combinational and sequential logic circuits using Flip Flops.

Course Name and Code: Elements of Mechanical Engineering & Mechanics [18ME15/25]	
Semester : 1/2	**Academic Year :2018-19**
After studying this course, a student will be able to	
CO113.1	Identify different sources of energy and their conversion process.
CO113.2	Explain the working principle of hydraulic turbines, pumps,
CO113.3	Describe the working of I C engines and refrigeration systems.
CO113.4	Understand the properties of common engineering materials and their applications in engineering industry. Recognize various metal joining processes and power transmission elements.
CO113.5	Discuss the working of conventional machine tools, machining processes, tools and accessories. Describe the advanced manufacturing systems.

Course Name and Code: ENGINEERING CHEMISTRY LABORATORY [18CHEL16/26]	
Semester : 1/2	**Academic Year :2018-19**
After studying this course, a student will be able to	
CO114.1	Handling different types of instruments for analysis of materials using small quantities of materials involved for quick and accurate results.
CO114.2	Carrying out different types of titrations for estimation of concerned in materials using comparatively more quantities of materials involved for good results.

Course Name and Code: C Programming Laboratory [18CPL17]	
Semester : 1/2	**Academic Year :2018-19**
After studying this course, a student will be able to	
CO115.1	Explain the various commands used during the execution of the program.
CO115.2	Utilize the process of debugging and execution.
CO115.3	Develop and illustrate simple C programs.
C0115.4	Construct flowchart and algorithm for the given problems.

Course Name and Code: Technical English-II [18EGH28]	
Semester : 2	**Academic Year :2018-19**
After studying this course, a student will be able to	
CO116.1	Identify common errors in spoken and written communication.
CO116.2	Get familiarized with English vocabulary and language proficiency.

CO116.3	Improve nature and style of sensible writing and acquire employment and workplace communication skills.
CO116.4	Improve their Technical Communication Skills through Technical Reading and Writing practices.
CO116.5	Perform well in campus recruitment, engineering and all other general competitive examination.

Sl. No.	Subject	Subject Code	NBA Code	CO Code	Target (%)	Achieved For set target	Attainment
1	Calculus & Linear Algebra	18MAT11	C101	CO101.1	50	*68.33*	3
				CO101.2		*71.28*	3
				CO101.3		*71.94*	3
				CO101.4		*67.02*	3
2	Engineering Physics	18PHY12/22	C102	CO102.1	45	*53.00*	0
				CO102.2		*55.75*	1
				CO102.3		*57.70*	1
				CO102.4		*54.60*	0
				CO102.5		*53.58*	0
3	Basic Electrical Engineering	18ELE13/23	C103	CO103.1	50	*68.47*	3
				CO103.2		*63.67*	2
				CO103.3		*76.83*	3
				CO103.4		*74.57*	3
				CO103.5		*69.27*	3
4	Elements of Civil Engineering & Mechanics	18CIV14/24	C104	CO104.1	55	*51.82*	0
				CO104.2		*52.52*	0
				CO104.3		*55.21*	1
				CO104.4		*54.51*	0
5	Engineering Graphics	18EGDL15/25	C105	CO105.1	50	*73.45*	3
				CO105.2		*73.45*	3
				CO105.3		*73.45*	3
				CO105.4		*73.45*	3
6	Engineering Physics Lab	18PHYL16/26	C106	CO106.1	55	*61.75*	2
				CO106.2		*61.75*	2
				CO106.3		*61.75*	2
				CO106.4		*61.75*	2
				CO106.5		*61.75*	2
7	Basic Electrical Engineering	18ELEL17/27	C107	CO107.1	55	*73.49*	3

	Lab			CO107.2		*73.49*	3
8	Technical English 1	18EGH18	C108	CO108.1	50	*88.96*	3
				CO108.2		*88.96*	3
				CO108.3		*88.96*	3
				CO108.4		*88.96*	3
				CO108.5		*88.96*	3
9	Advanced Calculus & Numerical Methods	18MAT21	C109	CO109.1	50	*69.02*	3
				CO109.2		*69.55*	3
				CO109.3		*66.51*	3
				CO109.4		*69.77*	3
10	Engineering Chemistry	18CHE12/22	C110	CO110.1	55	*67.81*	3
				CO110.2		*58.78*	1
				CO110.3		*70.14*	3
				CO110.4		*69.75*	3
				CO110.5		*70.43*	3
11	C Programming for problem solving	18CPS13/23	C111	CO111.1	50	*49.32*	0
				CO111.2		*46.78*	0
				CO111.3		*49.55*	0
				CO111.4		*49.81*	0
				C0111.5		*52.92*	0
12	Basic Electronics	18ELN14/24	C112	CO112.1	50	*49.10*	0
				CO112.2		*51.50*	0
				CO112.3		*45.05*	0
				CO112.4		*45.90*	0
				CO112.5		*49.00*	0
13	Elements of Mechanical Engineering	18EME15/25	C113	CO113.1	55	*63.22*	2
				CO113.2		*63.04*	2
				CO113.3		*67.95*	3
				CO113.4		*62.17*	2
				CO113.5		*65.56*	3
14	Engineering Chemistry Lab	18CHEL16/26	C114	CO114.1	55	*74.22*	3
				CO114.2		*74.22*	3
15	C Programming Lab	18CPL17/27	C115	CO115.1	50	*91.42*	3
				CO115.2		*91.42*	3
				CO115.3		*91.42*	3
				C0115.4		*91.42*	3
16	Technical English 2	18EGH28	C116	CO116.1	50	*72.31*	3
				CO116.2		*72.31*	3
				CO116.3		*72.31*	3
				CO116.4		*72.31*	3
				CO116.5		*72.31*	3

8.4.1 Describe the assessment processes used to gather the data upon which the evaluation of Course Outcomes of first year is done (5)

Institute Marks : 5.00

CAY (2019-20) & CAYm1 (2018-19)

- Three Internal tests for maximum marks of 30 are conducted and average of three internals is considered.
- 10 marks shall be awarded based on the evaluation of CCE component (i.e., Assignment, Class presentation, Mini Project, Case Study etc.)
- Maximum total internal marks for each course are 40. The student has to get a minimum of 16 marks to appear for the exam in the corresponding course.
- Semester end examination maximum marks is 60 is considered for external exam performance.
- The marks scored by the students in internal assessment are categorized based on CO's.
- 60% of university exam marks is considered as [N1] and 40% of internal assessment marks is considered as [N2] for every CO. The direct attainment of the course is given by [N1+N2] for every CO.
- For the laboratory, Continuous Internal Assessment is performed based on conduction of experiment, observations, viva and practical record for 24 marks. One semester end practical test is conducted for maximum of 16 marks. The total CIE marks for the laboratory course is 40. The student has to score a minimum of 20 marks to appear for the exam.
- Semester end examination maximum marks are 60 for the laboratory.
- The direct attainment is calculated by considering 50% weightage of SEE & 50% weightage of CIE.

CAYm2 (2017-18)

- Three Internal tests for maximum marks of 30 are conducted and average of best two internals is considered.
- 10 marks shall be awarded based on the evaluation of CCE component (i.e., Assignment, Class presentation, Mini Project, Case Study etc.)
- Semester end examination maximum marks is 60 is considered for external exam performance.
- The marks scored by the students in internal assessment are categorized based on CO's.
- 60% of university exam marks is considered as [N1] and 40% of internal assessment marks is considered as [N2] for every CO. The direct attainment of the course is given by [N1+N2] for every CO.
- For the laboratory, Continuous Internal Assessment is performed based on conduction of experiment, observations, viva and practical record for 24 marks. One semester end practical test is conducted for maximum of 16 marks. The total CIE marks for the laboratory course is 40. The student has to score a minimum of 20 marks to appear for the exam.
- Semester end examination maximum marks are 60 for the laboratory.
- The direct attainment can be calculated by considering 60% weightage of SEE & 40% weightage of CIE.

Procedure to measure the attainment level for the courses

The attainment of a particular CO in a course is calculated using the equation

$$\%\ Course\ attainment\ = \frac{x}{y}\ X\ 100$$

Where,

x = total marks scored by students in the particular CO scoring more than the set target

Y = number of participants (who attempted that CO)

8.5 Attainment of Program Outcomes from first year courses (20)

Total Marks 13.00

8.5.1 Indicate results of evaluation of ezch relevant PO and/ or PSO, if applicable (15)

Institute Marks : 10.00

POs Attainment:

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C101	1.4	1.22	1.04	1.04	PO5	PO6	PO7	PO8	PO9	PO10	PO11	0.7
C102	1	1.11	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C103	1.4	1.69	1.6	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C104	1.34	1.15	0.54	0.53	PO5	PO6	PO7	0.32	PO9	PO10	PO11	PO12
C105	0.75	0.75	PO3	PO4	0.98	PO6	PO7	PO8	PO9	PO10	PO11	0.25
C106	0.67	0.83	PO3	PO4	0.83	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C107	0.98	0.98	0.25	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	0.25
C108	PO1	PO2	PO3	PO4	PO5	1.19	PO7	PO8	0.3	2.01	0.8	1.44
C109	1.38	1.38	1.04	1.04	PO5	PO6	PO7	PO8	PO9	PO10	PO11	0.69
C110	0.9	1.85	0.93	0.53	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C111	1.30	0.80	0.90	0.99	PO5	PO6	PO7	PO8	PO9	PO10	PO11	0.81
C112	1.04	1.09	1.11	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C113	1.93	1.86	1.88	1.79	PO5	PO6	PO7	PO8	PO9	PO10	PO11	1.91
C114	2.23	1.55	0.56	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C115	1.83	1.37	2.29	PO4	1.83	PO6	PO7	PO8	0.91	0.91	PO11	0.91
C116	PO1	PO2	PO3	PO4	PO5	0.42	PO7	0.97	0.55	1.89	0.65	0.97

PO Attainment Level

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
Direct Attainment	1.30	1.26	1.10	0.99	1.21	0.80	0	0.64	0.59	1.60	0.72	0.88
CO Attainment	1.30	1.26	1.10	0.99	1.21	0.80	0	0.64	0.59	1.60	0.72	0.88

PSOs Attainment:

Course	PSO1	PSO2
C113	2	PSO2

PSO Attainment Level

Course	PSO1	PSO2
Direct Attainment	2	0
CO Attainment	2	0

8.5.2 Actions taken based on the results of evaluation of relevant POs (5)

Institute Marks : 3.00

POs Attainment Levels and Actions for Improvement- (2018-19)

POs	Target Level	Attainment Level	Observations
PO 1 : Engineering Knowledge			
PO 1	2.27	1.30	SET TARGET(55%) TARGET ATTAINED (57.11 %)
NA			
PO 2 : Problem Analysis			
PO 2	1.98	1.26	SET TARGET(55%) TARGET ATTAINED (63.64 %)
NA			
PO 3 : Design/development of Solutions			

PO 3	1.75	1.10	SET TARGET(55%) TARGET ATTAINED (63.06%)
NA			

PO 4 : Conduct Investigations of Complex Problems

PO 4	1.71	0.99	SET TARGET(55%) TARGET ATTAINED (57.70 %)
NA			

PO 5 : Modern Tool Usage

PO 5	2.00	1.21	SET TARGET(55%) TARGET ATTAINED (60.67 %)
NA			

PO 6 : The Engineer and Society

PO 6	1.6	0.80	SET TARGET(55%) NOT ATTAINED (50%)
Action 1: NSS Activities for social responsibility			

PO 7 : Environment and Sustainability

PO 7	NA	NA	First year courses do not contribute towards PO7
NA			

PO 8 : Ethics

PO 8	1.5	0.64	SET TARGET(55%) Not Attained (42.66%)
Action1: Interactions with working professionals with students to increase awareness of responsibilities of engineers.			

PO 9 : Individual and Team Work

PO 9	1.14	0.59	SET TARGET(55%) Not Attained (51.46%)
Action1: Carrier Development program by Genesis, Carrier prime with special attention to group discussion, leadership skills and team work			

PO 10 : Communication

PO 10	2.21	1.60	SET TARGET(55%) Target Attained (72.55%)

NA

PO 11 : Project Management and Finance

PO 11	1.67	0.72	SET TARGET(55%) Not Attained (43.11%)
Action 1: Skill development with respect to real world problems and logical reasoning through training			

PO 12 : Life-long Learning

PO 12	1.69	0.88	SET TARGET(55%) NOT Attained (52.14%)
Action 1: It is planned to have additional classes for these courses for practicing problems, to improve attainments.			

PSOs Attainment Levels and Actions for Improvement- (2018-19)

PSOs	Target Level	Attainment Level	Observations
PSO 1 : Analyze and design analog & digital circuits or systems for a given specification and function.			
PSO 1			
PSO 2 : Implement functional blocks of hardware-software co-designs for signal processing and communication applications			
PSO 2			

9 STUDENT SUPPORT SYSTEMS (50) Total Marks 36.00

9.1 Mentoring system to help at individual level (5) Tot

Institut

Mentoring system to help at individual level

- An effective Student mentoring system (SMS) has already been implemented in our college.
- All the students of the college are coming under this system from the date of joining the college.

- A complete track of the student activities like Academic, Curricular, Co-curricular Extra Curricular achievements, Social activities and the details of Par are registered in the system.
- Mentoring Register has been distributed to all the staffs of the college .Each staff is allocated around 20 students under the mentoring system.
- Faculties will have a meeting with the students periodically and their Academic progress and all his activities are discussed and noted in the register.
- Any discrepancies in the student behavior like Attendance,etc. will be questioned and will be counseled with care.
- Staff will be submitting the register to the high level Mentoring /Counseling committee with members like Head of the institution, HOD.
- The committees will scrutinize case by case and suggest corrective measures.

If necessary the committee will have discussions with the Parents and Medical Counseling.

Sample Mentee Form

PES Institute of Technology and Management®
(Approved by AICTE New Delhi, affiliated to VTU, ISO 9001 certified)
NH 206, Sagar Road, Shivamogga, Karnataka 577 204, Phone: 081826 40733
Department of Electronics & Communication Engineering
Mentee Information Form

Mentee Name											**DOB**		Stamp Size P	
USN	**4**	**P**	**M**			**C**	**S**				Aadhar No.			
Email ID											**Mobile**			
Permanent Address											Correspondence Address		Details of Residence (Hostel / Outside)	
City:…… Talq:…… Dist:……PIN:											City:…… Talq:…… Dist:…… PIN:		Name of the Hostel: …… Room No. & Address: Warden Name: .Mr. / Mrs. / Ms…… Warden Phone No.:	
Parents / Guardians Information													Mentee Educational Performa	
Father's Name	Mr. / Dr.										Mobile No.		SSLC (%)	
	Occupation										Email. ID		PUC (%)	
Mother's Name	Mrs. / Dr.										Mobile No.		Diploma (%)	

	Occupation		Email. ID		CET Rank	
Guardian Name	Mr. /Mrs. /Ms. / Dr.		Mobile No.		Category	
	Occupation		Email. ID		Quota	
Carrier Interest /Hobbies					Other details if any	

Mentee **Mentor** **Mentor Co-ordinator**
HOD

Sample of Student Progress Report

PES Institute of Technology and Management®
(Approved by AICTE New Delhi, affiliated to VTU, ISO 9001 certified)
NH 206, Sagar Road, Shivamogga, Karnataka 577 204, Phone: 081826 40733
Department of Electronics & Communication Engineering
Student's Progress Report

USN	**4**	**P**	**M**			**C**	**S**				**Semester**	

Internal Assessment Marks

Sl	**Subject Code**	**IA - 1**				**IA - 2**				**IA - 3**				**Assignment / Quiz**				**F IA**	**Ext M**	**GR**
		CH	**CA**	**% Att.**	**IAM**	**CH**	**CA**	**% Att.**	**IAM**	**CH**	**CA**	**% Att.**	**IAM**	**A1**	**A2**	**A3**	**AVG**			
1																				
2																				
3																				
4																				
5																				
6																				
7																				

College Fee Rs.:
Receipt No.:
Date:
Hostel Fee Rs.:
Receipt No.:
Date:

Final
CGPA

Backlog (If Ar
Sub Code | Clea

8																							

Mentor Meeting With Student / Parents Along With Date				Extra Co-curricular Activity Information : 1. 2. 3.
Student's Remarks (After the IA)				
Mentor Remarks (After meeting with Student / parent)				Technical Activity Information : 1. 2. 3.
Parent's Remarks (After progress report)				

Mentor **Mentor Coordinator** **HOD**

(CH – Classes Held, CA – Classes Attended, IAM – IA Marks, Att. – Attendance, A1 – Assignment – 1, FIA – Final IA, GR – Grade, EXTM Extern

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

Total Marks 6

Institute Marks : 6

Feedback analysis and Rewards and Corrective Measures taken

- Feedback collected for all semester students:
- Specify the feedback collection process: **Through software(GEMS)**
- The minimum feedback for a faculty member from the students is 70%.
- For faculty scoring less than the institution standard (70%), necessary corrective actions are followed.
- Necessary advice by the Head of the department about handling and monitoring the Class to the faculty.
- Deputing faculty to the Faculty Development Program (FDP).

Sample Feed Back Form:

Faculty Name:	**SHYAMALA S C**

S.No	SUBJECT NAME	SEMESTER	OVER ALL FEEDBACK	Has the teacher covered entire syllabus as prescribed by the university/college/board?							Has the teacher covered relevant topics beyond syllabus?							Effectiveness of teaching in terr of technical content/ Course content?						
				E	VG	G	S	NS	Count	Score	E	VG	G	S	NS	Count	Score	E	VG	G	S	NS	Count	Sco
1	VLSI LAB	7	87.24	26	17	6	0	0	49	88.16	21	22	5	1	0	49	85.71	26	15	8	0	0	49	87.
2	POWER ELECTRONICS & INSTRUMENTATION	3	70.59	10	11	22	3	0	46	72.17	7	15	22	2	0	46	71.74	6	14	22	4	0	46	69.
3	REAL TIME SYSTEMS	7	85.16	27	13	9	0	0	49	87.35	24	13	12	0	0	49	84.9	22	14	12	1	0	49	83.

Effectiveness of teaching in terms of Communication Skills?							Effectiveness of teaching in terms of use of technical aids?							Pace on which contents were covered?							Motivation and inspiration for students to learn?						
E	VG	G	S	NS	Count	Score	E	VG	G	S	NS	Count	Score	E	VG	G	S	NS	Count	Score	E	VG	G	S	NS	Count	Score
28	13	8	0	0	49	88.16	24	18	7	0	0	49	86.94	25	18	6	0	0	49	87.76	26	17	6	0	0	49	88.16
8	11	22	4	1	46	69.13	6	15	21	3	1	46	69.57	10	9	22	4	1	46	70.0	8	10	25	2	1	46	69.57
22	17	10	0	0	49	84.9	23	15	10	1	0	49	84.49	23	17	8	1	0	49	85.31	25	13	11	0	0	49	85.71

Support for the development of student skills Practical demonstration/ Hands on Training?							Clarity of Expectation of students?							Willingness to offer help and advice students?						
E	VG	G	S	NS	Count	Score	E	VG	G	S	NS	Count	Score	E	VG	G	S	NS	Count	Score
23	19	7	0	0	49	86.53	23	19	7	0	0	49	86.53	26	15	8	0	0	49	87.35
11	8	24	2	1	46	71.3	9	11	21	4	1	46	70.0	7	15	22	2	0	46	71.74
25	12	12	0	0	49	85.31	23	15	10	1	0	49	84.49	26	14	8	1	0	49	86.53

Remarks:

The respective faculty(faculty who have got less than 70%) has been councilled from head of the department and principal to make improve in teaching learning process.

9.3 Feedback on facilities (5)

Total Marks 4.00

Institute Marks : 4.00

FEEDBACK ON FACILITIES

	PES Institute of Technology and Management
DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING	

FEEDBACK FORM ON INFRASTRUCTURE AND FACILITIES FOR ACADEMIC YEAR 2018-2019

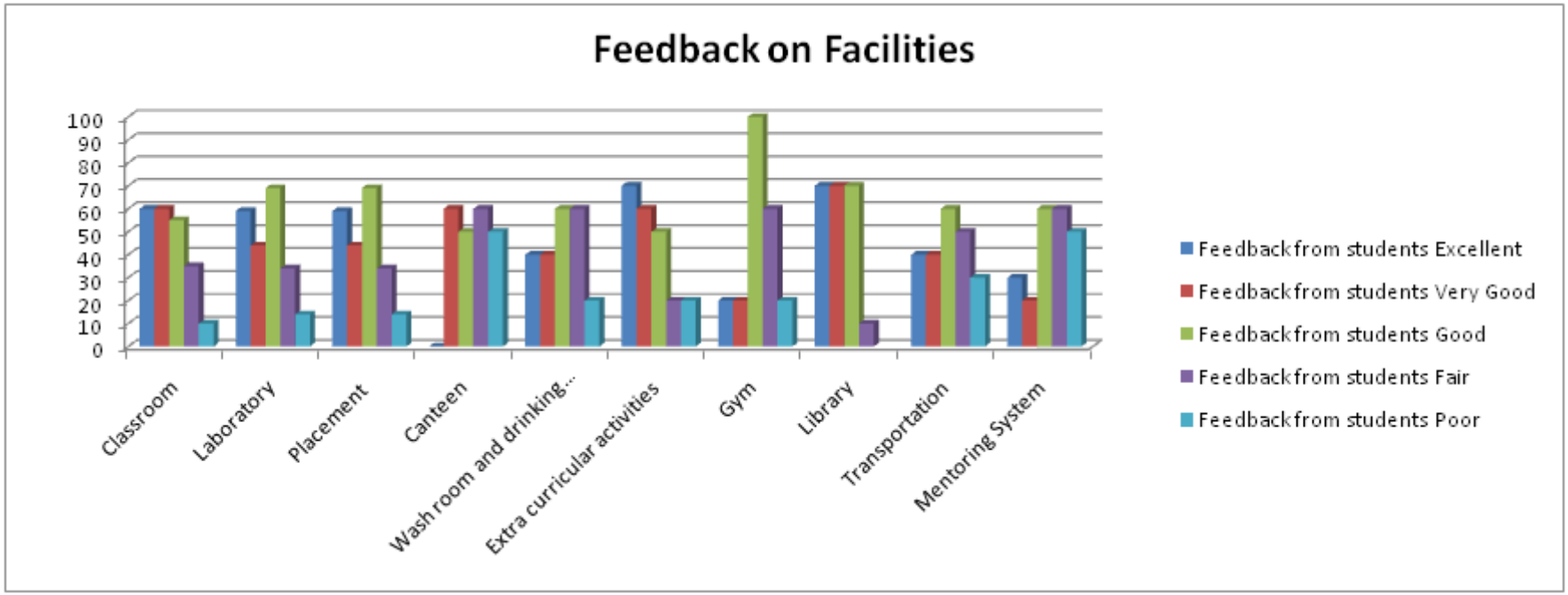
Name of the student					
USN Number					
Branch					
E-Mail ID					
Contact Number					
INFRASTRUCTURE AND FACILITIES					
Slno	**Facility**	**Feedback**			
1	Class Room a)PC&Projecrs b)Cleanliness	□Excellent □Poor	□Very good	□Good	□Fair
2	Laboratry a)No. of Computers/Connectivity/ Anti-Virus b)Availability of Software/Maintenance	□Excellent □Poor	□Very good	□Good	□Fair
3	Placement a)Ethnus Training b)	□Excellent □Poor	□Very good	□Good	□Fair
4	Canteen a)Food Prices/Quantity/ Hygienic Food	□Excellent □Poor	□Very good	□Good	□Fair

5	Washroom & Drinking water a)Cleanliness/ Lighting of Washroom all the time. b)Quality of drinking Water	□Excellent □Poor	□Very good	□Good	□Fair
6	ExtraCurricularactivities. a)Availability of free time for extra-curricular activities. b) Enough space available to play sports in college	□Excellent □Poor	□Very good	□Good	□Fair
7	Gym a)Availability of Gym equipments/ Gym Instructor. b) Timings	□Excellent □Poor	□Very good	□Good	□Fair
8	Library Availability of books/Journals/ Utilizing Digital Library/ Timings	□Excellent □Poor	□Very good	□Good	□Fair
9	Transportation Availability of busses in all routes/ Availability of seating in busses/ Timings	□Excellent □Poor	□Very good	□Good	□Fair
10	Mentoring System	□Excellent □Poor	□Very good	□Good	□Fair

Analysis FOR ACADEMIC YEAR 2018-2019

Feedback from students					
	Excellent	Very Good	Good	Fair	Poor
Classroom	60	60	55	35	10
Laboratory	59	44	69	34	14
Placement	59	44	69	34	14
Canteen	0	60	50	60	50
Wash room and drinking water	40	40	60	60	20
Extracurricular activities	70	60	50	20	20
Gym	20	20	100	60	20
Library	70	70	70	10	
Transportation	40	40	60	50	30

Mentoring System	30	20	60	60	50



9.4 Self-Learning (5)

Total Marks 4.00

Institute Marks : 4.00

Self Learning

- Wi-Fi available in campus
- Internet access to all the computers for the benefit of students.
- Motivating students for NPTEL Courses & Video tutorials on advanced topics.
- To take up Mini projects at lower semesters.
- Problematic subject Open Book Test are conducted.
- Digital library and laboratories are provided for mini projects and hobby projects

NPTEL COURSE (CMOS VLSI DESIGN)

6th semester A-section REGISTERED STUDENT LIST (2019-2020)

Sl No	USN	NAME
1	4PM15EC013	Chaya G S
2	4PM15EC086	SANJAY D T
3	4PM16EC006	AMOGHA HEGDE
4	4PM16EC016	CHETHAN A B
5	4PM16EC019	DIVYA K P
6	4PM16EC051	PAVAN S
7	4PM16EC065	RAVICHANRA A
8	4PM16EC0105	K B CHAMARAJ
9	4PM17EC404	DEEPAK S K
10	4PM17EC001	A R ZAIBA KAUSAR
11	4PM17EC002	ABRAR AHMEDKHAN A GURANI
12	4PM17EC004	AISHWARYA KAMATH N
13	4PM17EC005	AKASH D A
14	4PM17EC007	AKSHTHA A
15	4PM17EC008	ANAND S M
16	4PM17EC009	ANOOP T M
17	4PM17EC011	ARPITHA N
18	4PM17EC012	ASHITHA M
19	4PM17EC013	BASAVAPRABHU G DHUPAD
20	4PM17EC015	BHOOMIKA S
21	4PM17EC017	BRUNDA P
22	4PM17EC019	CHANDANA C K
23	4PM17EC020	CHANDANA P PATEL
24	4PM17EC021	DARSHAN R GORPADE
25	4PM17EC023	DEEPTHA A H
26	4PM17EC024	DEEPTHI S V
27	4PM17EC026	DRUSHTI M B
28	4PM17EC027	G N CHETHA
29	4PM17EC028	GUTUDATT P KULKARNI
30	4PM17EC029	H M AKHILESH
31	4PM17EC030	HARISH P
32	4PM17EC031	HARSHITHA S
33	4PM17EC032	HARSHITHA P S
34	4PM17EC033	HEMANTHRAHUL E L
35	4PM17EC034	JAMEEL AHMED
36	4PM17EC035	JYOTHI B K
37	4PM17EC036	KAMALAPRIYA V L
38	4PM17EC038	KRUTHI U N
39	4PM17EC039	KRUTHIKA D REVANKAR

40	4PM17EC040	LAKSHMESHA RAMACHANDRA NAIK
41	4PM17EC043	MANU KUMAR K C
42	4PM17EC044	MEGHANA G H
43	4PM17EC046	MOHAMMED ASIF K S
44	4PM17EC047	MOHAMMED THASIRIF
45	4PM17EC048	MONIKA J L
46	4PM17EC049	MOUNAVI B
47	4PM17EC050	MUBINA BAPU SAHEB NAIKWADI
48	4PM18EC400	CHANDANA
49	4PM18EC402	RANGASWAMY
50	4PM18EC406	SUSHMA S

6th semester B Section REGISTERED STUDENT LIST (2019-2020)

Sl No	USN	NAME
1	4PM15EC026	DIVYASHREE H K
2	4PM15EC092	SHIFANA
3	4PM15EC109	SYED GULAM
4	4PM15EC114	SAHANA H R
5	4PM16EC0102	ZOHRA SHARIEF
6	4PM16EC031	JAYASHREE B R
7	4PM16EC055	PREETHI M D
8	4PM17EC051	NAGAMANI T
9	4PM17EC052	NAGARAJ R NAIK
10	4PM17EC054	NANDISH G MATHAD
11	4PM17EC055	NAVEEN V A
12	4PM17EC056	NAVYA G
13	4PM17EC057	NAYANA M
14	4PM17EC058	NIDHI A M
15	4PM17EC059	NIHAR A R
16	4PM17EC060	NIMRA BANU
17	4PM17EC061	NISARGA B S
18	4PM17EC062	NISARGA PRASAD B S
19	4PM17EC063	NITHIN KESHAVA REDDY T
20	4PM17EC064	PRAGATHI P PAI
21	4PM17EC066	PRASHANTH V L
22	4PM17EC067	PRATHEEKA K H
23	4PM17EC068	PREETHAM PATIL B J
24	4PM17EC069	RACHITHA T
25	4PM17EC070	RAGHAVENDRA M M
26	4PM17EC072	RAKSHITHA S R
27	4PM17EC073	ROOPA R B
28	4PM17EC074	SABA KAUSAR

29	4PM17EC075	SAMEER AHMED H
30	4PM17EC076	SANDEEP C M
31	4PM17EC077	SANGAVI S
32	4PM17EC078	SHARAN J S
33	4PM17EC080	SHASHANK B K
34	4PM17EC081	SHREEVATS P HEGDE
35	4PM17EC082	SHRUTHI D N
36	4PM17EC083	SINCHANA D M
37	4PM17EC084	SOWJANYA B
38	4PM17EC085	SPOORTHI A BANAKAR
39	4PM17EC086	SPOORTHI H S
40	4PM17EC087	SUHAS P
41	4PM17EC088	SUJITH B K
42	4PM17EC089	TEJASWINI K S
43	4PM17EC091	VANDANA B R
44	4PM17EC092	VEENA N B
45	4PM17EC093	VENKATESH K SAKHARE
46	4PM17EC094	VIDYA C B
47	4PM17EC095	VIJAY D
48	4PM18EC404	SHARATH S B
49	4PM18EC405	SUDEEP N R

NPTEL COURSE (SIGNALS & SYSTEMS)

4th semester 'A' REGISTRED STUDENT LIST ((2019-2020)

Sl No	USN	NAME
1	4PM17EC006	AKSHAR NISHANI . H B
2	4PM17EC041	MADHU PRAKASHAPPA .M
3	4PM17EC053	NAKUL S KALAGE
4	4PM18EC001	AKASHA J
5	4PM18EC003	ANUSHA B V
6	4PM18EC004	ANUSHA H G
7	4PM18EC005	ANUSHREE R V
8	4PM18EC006	ASIYA KHANUM H.S
9	4PM18EC007	AUSTIN D SILVA
10	4PM18EC008	AVINASH N
11	4PM18EC009	BASAVA PRABHU POOLABHAVI
12	4PM18EC010	BHAGYASHREE .P HEGDE
13	4PM18EC011	BHAVANA G. S
14	4PM18EC012	BHAVANA M. U
15	4PM18EC013	BHOOMIKA G. N
16	4PM18EC014	BHOOMIKA T.B
17	4PM18EC015	BRAHMADAT P
18	4PM18EC016	CHAITHRA M

19	4PM18EC017	CHAITRASHREE H.G
20	4PM18EC018	CHANDAN .N
21	4PM18EC019	DHANISH K.A
22	4PM18EC020	DIVYASHREE H.J
23	4PM18EC021	GAGANA H.M
24	4PM18EC022	GANAVI S.B
25	4PM18EC023	GIREESH S.S
26	4PM18EC024	HARISH P
27	4PM18EC025	HARSHITHA A. U
28	4PM18EC026	HARSHITHA .C (SMG)
29	4PM18EC027	HARSHITHA C
30	4PM18EC028	JAGADEESH H.Y
31	4PM18EC030	JEEVITHA S
32	4PM18EC031	JYOTHI S
33	4PM18EC032	K.S SHILPA
34	4PM18EC033	KARTHIK M.D
35	4PM18EC035	MADHUSHREE M
36	4PM18EC036	MAMATHA B V
37	4PM18EC037	MANASA K.M
38	4PM18EC038	MANDARA S
39	4PM18EC039	MANJUNATH H.D
40	4PM18EC040	MEERA R
41	4PM18EC041	MEGHANA P.H
42	4PM18EC042	MEHEK FIRDOUSE
43	4PM18EC043	MOHAMMED KHAYUM
44	4PM18EC044	MONIKA M.C
45	4PM18EC045	MUSKAN
46	4PM18EC046	N.M KIRAN KUMAR
47	4PM18EC047	NETRAVATHI P.KAMMARA
48	4PM18EC048	NIHAL SMARAN RAO .A
49	4PM18EC099	MANU D.K

4th semester ‘B’ REGISTRED STUDENT LIST ((2019-2020)

Sl No	USN	NAME
1	4PM18EC070	Ramyashree
2	4PM18EC049	Niharika
3	4PM18EC084	Spoorth H.N
4	4PM18EC092	Veena S
5	4PM18EC063	Prathima
6	4PM18EC064	Pushpa S M
7	4PM18EC067	Rakshitha B R
8	4PM18EC091	Triveni N

9	4PM18EC069	Ramay P M
10	4PM18EC083	Soumay S Rathod
11	4PM18EC061	Prakruthi R T
12	4PM18EC068	Rakshitha H M
13	4PM18EC082	Soumay T
14	4PM18EC055	Pooja G
15	4PM18EC078	Shilpa R
16	4PM18EC054	POOJA B T
17	4PM19EC406	Pallavi N J
18	4PM16EC009	Apeksha S
19	4 PM18EC052	Niveditha M S
20	4PM18EC085	Spoorthi R
21	4PM18EC071	Sagarika
22	4PM19EC410	Ranjitha C
23	4PM18EC075	Sangeetha P
24	4PM18EC056	Pooja M S
25	4PM18EC080	Sneha B N
26	4PM18EC056	POOJA JUTUR N
27	4 PM18EC073	Sahana P.S
28	4PM19EC405	NagaSuraksha K R
29	4PM18EC096	Yashvanth A B
30	4PM18EC090	TejaswiniAnand
31	4PM18EC060	Prakash R
32	4PM19EC400	Darsha K M
33	4PM19EC413	Vivek V
34	4PM18EC057	Pradeepkumar
35	4PM19EC407	Pareekshith K
36	4PM19EC404	Mohammad saglain
37	4PM18EC051	NITHEESH N.P
38	4PM18EC076	Shabulingappa
39	4PM18EC058	Prajwal I M
40	4PM18EC089	Syed riswansadig K
41	4PM18EC062	Pramod M V
42	4PM19EC403	MADHU
43	4PM19EC409	RAKESH K S
44	4PM18EC053	PAVAN KUMAR N
45	4PM18EC050	NIKHIL R

Add –on course -VLSI Design

Sl No	USN	NAME
1	4PM17EC004	AISHWARYA

2	4PM17EC032	HARSHITHA P S
3	4PM17EC060	NIMBRABANU
4	4PM17EC039	KARTHIKA D
5	4PM17EC004	AISHWARYA
6	4PM17EC032	HARSHITHA P S
7	4PM17EC060	NIMBRABANU
8	4PM17EC039	KARTHIKA D
9	4PM17EC004	AISHWARYA
10	4PM17EC032	HARSHITHA P S
11	4PM17EC060	NIMBRABANU

9.5 Career Guidance, Training, Placement (10)

Total Marks 8.00

Institute Marks : 8.00

- Institute has well qualified placement officer with wide exposer to industry Mr. Pramod S Prabhudev, Placement officer CDC .

• Department has dedicated placement coordinator's Mr. Chetan B R Asst.professor and
• Mr. Shashank S Bhagwat, Asst. Professor they organize and coordinate all placement activities at department level.
• Department offers professional elective subjects and open elective subjects for other departments to improve students' knowledge and exposure on emerging technologies as well as for industrial requirements.
• Mini-projects, Major project and seminars to make the students to get trained to work with industrial environments.

Training:
Before commencement of Campus Interviews, the companies will present pre-placement talk. They will give the information about their selection procedure, their visions, achievements, scope of career development in their organization, salary and benefits. The students can query their doubts at the end of talk and get clarified.

Training Details for Students: Academic year 2018-2019

Sl. No	Date	Branch/Institution	Company Name	Activity
1	16-08-2018 Thursday	1st Year Electronics and Communication Engg	GENESIS	Initiative & Leadership Skills
2	17-08-2018 Friday	1st Year Electronics and Communication Engg	GENESIS	Written Communication
3	18-08-2018 Saturday	1st Year Electronics and Communication Engg	GENESIS	Human Values
4	20-08-2018 Monday	1st Year Electronics and Communication Engg	GENESIS	Communication
5	21-08-2018 Tuesday	1st Year Electronics and Communication Engg	GENESIS	Team Building & Time Management
6	23-08-2018 Thursday	1st Year Electronics and Communication Engg	GENESIS	SWOT
7	24-08-2018 Friday	1st Year Electronics and Communication Engg	GENESIS	Basics of Aptitude

8	25-08-2018 Saturday	1st Year Electronics and Communication Engg	GENESIS	Goal Setting & Decision Making
9	16-08-2018 Thursday	2nd Year Electronics and Communication Engg	GENESIS	Series, Coding Decoding
10	17-08-2018 Friday	2nd Year Electronics and Communication Engg	GENESIS	Speed Math & Puzzles
11	20-08-2018 Monday	2nd Year Electronics and Communication Engg	GENESIS	Blood Relation, Directions
12	21-08-2018 Tuesday	2nd Year Electronics and Communication Engg	GENESIS	Tenses
13	23-08-2018 Thursday	2nd Year Electronics and Communication Engg	GENESIS	Analogies, Idioms & Phrases
14	24-08-2018 Friday	2nd Year Electronics and Communication Engg	GENESIS	Presentation Skills - 2
15	27-08-2018 Monday	2nd Year Electronics and Communication Engg	GENESIS	Extempore
16	27-08-2018 Monday	2nd Year Electronics and Communication Engg	GENESIS	Listening Skills
17	Friday, August 18, 2017	3rdYear Electronics and Communication Engg	CareerPrime	Aptitude & Reasoning ,C Language

18	Saturday, August 19, 2017	3rdYear Electronics and Communication Engg	CareerPrime	Verbal Ability, Soft Skills
19	Sunday, August 20, 2017	3rdYear Electronics and Communication Engg	CareerPrime	Aptitude & Reasoning ,C Language
20	Sunday, August 20, 2017	3rdYear Electronics and Communication Engg	CareerPrime	Verbal Ability, Soft Skills
	Monday, August 21, 2017	3rdYear Electronics and Communication Engg	CareerPrime	Aptitude & Reasoning ,C Language
21	Monday, August 21, 2017	3rdYear Electronics and Communication Engg	CareerPrime	Verbal Ability, Soft Skills
22	Tuesday, August 22, 2017	3rdYear Electronics and Communication Engg	CareerPrime	Aptitude & Reasoning ,C Language
23	Tuesday, August 22, 2017	3rdYear Electronics and Communication Engg	CareerPrime	Verbal Ability, Soft Skills
24	Wednesday, August 23, 2017	3rdYear Electronics and Communication Engg	CareerPrime	Aptitude & Reasoning ,C Language
25	Wednesday, August 23, 2017	3rdYear Electronics and Communication Engg	CareerPrime	Verbal Ability, Soft Skills
26	Thursday, August 24, 2017	3rdYear Electronics and Communication Engg	CareerPrime	Aptitude & Reasoning ,C Language

27	Thursday, August 24, 2017	3rdYear Electronics and Communication Engg	CareerPrime	Verbal Ability, Soft Skills
28	Sunday, April 09, 2017	3rdYear Electronics and Communication Engg	CareerPrime	Aptitude & Reasoning ,C Language
29	Tuesday, May 09, 2017	3rdYear Electronics and Communication Engg	CareerPrime	Verbal Ability, Soft Skills
30	Friday, June 09, 2017	3rdYear Electronics and Communication Engg	CareerPrime	Aptitude & Reasoning ,C Language
31	Sunday, July 09, 2017	3rdYear Electronics and Communication Engg	CareerPrime	Verbal Ability, Soft Skills
32	Wednesday, August 09, 2017	3rdYear Electronics and Communication Engg	CareerPrime	Aptitude & Reasoning ,C Language
33	Saturday, September 09, 2017	3rdYear Electronics and Communication Engg	CareerPrime	Verbal Ability, Soft Skills

Placement

Academic Year :2018-2019					
Sl. No.	**Name of the student placed**	**USN**	**Name of the Employer**	**Appointment letter with reference number**	**CTC**
1	Yashaswini M	4PM15EC113	Infosys	HRD/3T/19-20/13080445	3.6LPA
2	Kavya M R	4PM15EC034	Accord Software	Offer letter	3.6LPA
3	Sirigowri N. H	4PM15EC097	MPHASIS , TCS	MPHTH2019-0559 TCSL/DT20184520225	3.36 LPA
4	Swati Shreepada Hegde	4PM15EC108	TCS	TCSL/DT20184642428	3.36LPA
5	Sumitha J	4PM15EC102	TCS	TCSL/DT20184520027	3.36 LPA
6	Nayana S.U.	4PM15EC050	SLK	Offer letter	3.2LPA

7	Mahendra	4PM15EC043	Orbitycs Technologies	OT/BLR/HR/00066	3.2LPA
8	Niranjana K	4PM15EC053	Globaledge	Offer letter	3LPA
9	Prasanna Bhat	4PM15EC069	Consilient Technologies	Offer letter	3LPA
10	Aditya G Rao	4PM15EC001	MPHASIS ,TCS	MPHTH2019-0557, DT20184520291	2.5 LPA
11	Inchara U N	4PM15EC032	MPHASIS	MPHTH2019-0556	2.5 LPA
12	Nishad Khanum Suri	4PM15EC055	Heraizen	Offer letter	2.50 LPA
13.	Amulya H G	4PM15EC005	Career Prime	Offer letter	2 LPA
14.	Chethan K M	4PM15EC023	Aegis	SAP ID-0804487	2.16 LPA
15	Namrata Patter	4PM15EC048	Intugine Technologies	Offer Letter	1.8LPA
16.	Anusha Bhatta	4PM16EC401	Anmerkung	ASPLBN0318	1.20LPA
17.	Malini B NaiK	4PM16EC410	Anmerkung	Offer letter	1.20LPA
18	Rakshitha Cu	4PM15EC075	Riiit-Jobkart, Rooman	Offer letter	0.96LPA
19.	Pooja M L	4PM15EC063	Tech Mahindra	EMP ID-669032	
20.	Swathi S	4PM15EC107	RIIIT-Jobkart	Offer letter	
21.	P H Shwetha	4PM15EC058	RIIIT-Jobkart	Offer letter	
22.	Pooja Navale	4PM15EC067	ABC Group	Offer letter	
23.	Apoorva Kalal	4PM15EC008	ABC Group	Offer letter	
24.	Priya S Khadi	4PM16EC419	Micro Precision	Offer letter	
25.	Rohan J R	4PM15EC077	Blue Stream	EMP ID-BSPS463	
26.	Drusti N G	4PM15EC027	Service Provider	EMP ID card	
27.	Laxmi Hirabayi	4PM15EC038	UTS Global	UST/SO00055586-1-1-1/675620	
28.	Archana K	4PM15EC010	IIHT Limited	Employer letter	
29.	Sanath S P	4PM15EC084	Dataweave	Emp ID – T066	
30.	Ashwini Baragali	4PM15EC015	Replicon	Emp ID – TR10107	
31.	Harshitha L P	4PM15EC031	Business Solution Intenational	Emp ID card	
32.	Priya K	4PM16EC418	PESITM	Emp ID card	

33.	Suma H M	4PM15EC100	Accenture	C8385774	3.75LPA
34.	Chaitra G C	4PM15EC019	Infinite Computer Solution Ltd	ICSL/Independent Consultant/8123/4480/30122019	2.5LPA
35.	Akkamma	4PM15EC003	Fidrox	Offer letter	1.44LPA
36.	Akash Thakur	4PM15EC002	Mindtree	Offer Letter	2.52LPA
37.	Chadrashekara Maruti	4PM15EC020	Prerana Motors	Emp ID card	
38.	Kishore K S	4PM15EC037	Viewwiser Technologies	Payslip	2.5LPA
39.	Keshava H	4PM15EC036	TCS	Emp ID - 347031	
40.	Fathima S	4PM15EC028	Pincore Technologies	PTIPL.TC.0719.AO25	
41.	Muskan Banu	4PM15EC047	Pacecom	PTPL0506	
42.	Pallavi V Shet	4PM15EC060	TCS	TCSL/DT20184589549/1338211/Bangalore	
43.	Sagar N M	4PM15EC081	KPGCo	Payslip	2.43LPA
44.	Roja M R	4PM15EC078	Mobinius	Emp ID –M20292	
45.	Sanjay Y	4PM15EC087	Concentrix	Appointment Letter	
46.	Nayan Shivam	4PM15EC049	Authbridge	ARS/HRD/LT/48	
47.	Pradeep H P	4PM16EC417	PSI	Qualified Letter	
48.	Manjunath B	4PM16EC411	PSI	Qualified Letter	
49.	Pallavi Y D	4PM15EC059	Global Edge	Emp ID card	
50.	Shameel Irshad	4PM15EC090	OPPO	Offer Letter	2.14LPA
51.	Sinchana N	4PM15EC095	PSP Inovators	Offer Letter	1.44LPA
52.	Nayana D Acharya	4PM16EC415	Make Over	Emp ID- MF/201014392	
53.	Pooja P R	4PM15EC064	Gallagher	Offer Letter	
54.	Samyukta	4PM15EC082	Gallagher	Offer Letter	
55.	Supriya J T	4PM15EC104	Gallagher	Offer Letter	

56.	Suma N M	4PM15EC101	Gallagher	Offer Letter	
57.	Supriya L T	4PM15EC105	Tech Mahindra	Offer Letter	

Academic Year:2017-2018					
Sl. No.	**Name of the student placed**	**USN**	**Name of the Employer**	**Appointment letter with reference number**	**CTC**
1	Shruthi Shanbhaga	4PM14EC082	Playsimple	Payslip	5.17LPA
2	Akshatha C M	4PM14EC004	Congnizant	12761203	3.83LPA
3	Bindu M S	4PM14EC015	Congnizant	12761250	3.83LPA
4	Nagamani G Bhat	4PM14EC044	Accenture	C8350593	3.75LPA
5	Arun Kumar S K	4PM14EC013	Cenduit	Offer letter	3.74LPA
6	Poornima B Patil	4PM15EC418	Avankia	Offer letter	3.6LPA
7	Harshitha M S	4PM14EC028	TCS	TCSL/DT20184828867/Bangalore	3.36LPA
8	Usha M T	4PM14EC105	Mind Tree	V201705	3.5LPA
9	Akshatha G	4PM14EC005	Nttdata	Offer letter	3LPA
10	Tabassum	4PM14EC103	SLK Software	Offer letter	2.82LPA
11	Sushanth	4PM14EC097	Bosch	Offer letter	2.8LPA
12	Venkat Bhat	4PM15EC437	Mphasis	APPS/1074013/07703662/bangalore/september/v0	2.5LPA
13	Tanzeela Banu	4PM14EC104	Genx Technologies	HR/1006/2019/260619/7	2.5LPA
14	Dhanaraj Murthy	4PM14EC022	6th Energy	Offer letter	2.3LPA
15	Mohammad Shoaib	4PM14EC041	Randstad Pvt Ltd.	EMP code-1351230	2.49LPA
16	Priyanka J K	4PM14EC059	Eminds	offer letter	1.91LPA
17	Sushmitha M	4PM14EC101	DXC.Technology	Offer letter	1.8LPA
18	Nagamani H A	4PM15EC414	Shine	Offer letter	1.7 LPA
19	Meghana S	4PM15EC412	Shine	pay slip	1.42LPA
20	Pragathi N P	4PM14EC052	Nttdata	EMP ID-181100	
21	Kavana R A	4PM14EC032	Mindtree	EMP ID card	
22	Juhi Gupta	4PM14EC030	Valuelabs	EMP ID-101297	
23	Somashekar H C	4PM14EC090	Wipro	EMP ID-20070348	
24	Sushma H B	4PM14EC098	Bluestream	EMP ID-BSPS439	
25	Rashmi R Pai	4PM14EC067	Mphasis	EMP ID-2359516	
26	Brincita Prima Cutina	4PM14EC016	Sankalp Semiconductors	EMP ID-2177	

27	Prathik S P	4PM14EC055	Nest Away	EMP ID-E1895	
28	Jagath Jog	4PM14EC029	Unizen Technologies	EMP ID-20190210	
29.	Karthik S	4PM15EC408	Pixel	J-10	
30.	Akshatha S	4PM14EC006	Mphasis	EMP ID-2367534	
31.	K Shwetha	4PM14EC031	Synergy	Offer letter	
32.	Naveed Pasha	4PM14EC046	Tata Elxsi	EMP ID-21466	
33.	Murthy K	4PM15EC413	Starmark	EMP ID-1205	
34.	Sagar Nadig	4PM14EC070	Accenture	7259889318	
35.	Sushma J	4PM14EC099	Global Edge	Offer letter	
36.	Shradda P Jain	4PM14EC079	Source One	E3722	
37.	Ranjitha Pandit	4PM14EC066	Amazon	pay slip	
38.	Spandashri	4PM14EC093	UST Global	Offer letter	
39.	Shruthi L P	4PM14EC081	Block Gemini	IN31	
40.	Vishal Hatti	4PM15EC439	Melstar	MITU/PRSNL/19-20	
41.	Shreedevi Bagewadi	4PM14EC080	JV Mandal's Polytechnic	Experience letter	
42.	Vinay G	4PM15EC438	Blue Stream	BSPS438	
43.	Mohan Kumar K N	4PM14EC043	Si2chip	Offer Letter	
44.	Shwetha S M	4PM14EC084	Ionidea	Emp Id-0201973	
45.	Sahana J B	4PM14EC071	Eazywrkz Technologies	Offer letter	
46.	Rajat R	4PM14EC062	Inube Software Solutions	Offer letter	
47.	Vineeth M	4PM14EC108	Cattleya Technosys	EMP ID-NTS000157	

48.	Adinath	4PM15EC400	6th Energy	C117	2.04LPA

Academic Year: 2016-17					
Sl. No.	**STUDENT NAME**	**USN**	**Name of the Employer**	**Appointment Letter/reference number**	**CTC**
1.	Tejas R	4PM13EC092	Magna Infotech	Offer letter	5LPA
2.	Shivaprasad S C	4PM13EC081	Rockwell Collins	Offer letter	4.64LPA
3.	Shivakumar P	4PM14EC436	Sutherland	Offer Letter	4.5LPA
4.	Amrutha K R	4PM13EC005	Nts Technology Services	Pay Slip	4.2LPA
5.	Aditya J	4PM13EC002	Innovations	Pay Slip	3.96 LPA
6.	Suma S	4PM13EC086	Talism	Offer letter	3.7LPA
7.	Chaitra C	4PM13EC021	Csc Corp	2019IND39604_5	3.51LPA
8.	Chakravarthi Parthasarathi	4PM13EC022	Kohler	Offer Letter	3.5LPA
9.	Pavitra	4PM13EC061	TCS	TCSL/DT20184188566	3.36LPA
10.	Shreyas S	4PM13EC082	Tech Mahindra	696626/1479734/ELTP	3.25LPA
11.	Azeema Khanum	4PM13EC013	Tech Mahindra	696646/1480811/ELTP	3.25LPA
12.	Ranjitha	4PM13EC070	Tech Mahindra	1480816/ELTP/2017	3.25LPA
13.	Shilpashree H S	4PM13EC080	Tech Mahindra	Offer letter	3.25LPA
14.	Swati K J	4PM13EC091	Tech Mahindra	696646/1480866/ELTP	3.25LPA
15.	Nikhil R S	4PM13EC057	Tech Mahindra	696646/1479806/ELTP	3.25LPA
16.	Veeresh C S	4PM13EC095	KPIT		3.25LPA
17.	Swasthika T N	4PM13EC090	Cognizent	12651567	3.38LPA
18.	Pooja S P	4PM13EC064	Cognizent	12651508	3.38LPA
19.	Kruthi S M	4PM14EC0417	Pozibility Technologies	Offer letter	3.07LPA
20.	Usha S R	4PM13EC094	Genpact	SDS001004-1981267	3LPA

21.	Nisarga Chawan	4PM13EC059	Ethnus	Offer letter	2.4LPA
22.	Raga C	4PM13EC067	Quess	QS1378797	2.37LPA
23.	Mahalaxmi M	4PM13EC043	Quadgen	HR/WIR/OL/2019/117	2.3LPA
24.	Harsha H K	4PM14EC412	I-Source Infosystems	ISIPL/HR/2018/12/9642/	2.12LPA
25.	Maheen	4PM13EC044	Innov	201838474	2.04 LPA
26.	Navami G S	4PM13EC053	5barz	Offer letter	2LPA
27.	Vishwanath A N	4PM14EC442	Sequential Technology International	Offer letter	1.95LPA
28.	Veena H J	4PM14EC440	People Source	Offer letter	1.56LPA
29.	Anusha Shetty	4PM13EC009	Skypro	Offer letter	1.33LPA
30.	Chaithra S R	4PM13EC020	TCS	TCSL/DT20184148292/1087373/Bangalore	
31.	Bharath A	4PM13EC016	Globaledge	Emp ID	
32.	Shwetha R	4PM14EC437	Needs	Offer letter	
33.	Nithin V	4PM13EC060	Deluxe India Private Ltd	Offer letter	
34.	Neha Taslim	4PM13EC055	Vattra	Offer letter	
35.	Hareesh C R	4PM13EC032	Doc & U	Offer letter	
36.	Sachin G	4PM13EC072	Continental	Offer letter	
37.	Divya U	4PM13EC028	Quess	Offer letter	
38.	Savitha B C	4PM13EC076	Istrac	Offer letter	
39.	K Chandrashekar	4PM13EC038	Cientra	Offer letter	
40.	Hitesh Karath	4PM13EC035	Flyvi Technologies	Offer letter	
41.	Bharath Hegde	4PM13EC015	PCC	Offer letter	
42.	Arpitha	4PM13EC011	Semtronics	Offer letter	
43.	Bharath R P	4PM14EC407	Rooman	Offer letter	

44.	Praveen K	4PM13EC066	CMS	Offer letter	
45.	Anusha K S	4PM13EC007	DXC.Technology	Offer letter	
46.	Chandan R	4PM13EC023	Wipro	Offer letter	
47.	Vidyashree T	4PM13EC096	Cognizant	Offer letter	
48.	Poornima S	4PM13EC065	Ikya Human Capital Solutions	Offer letter	
49.	Azar M Khan	4PM13EC014	Harman	Offer letter	
50.	Pooja S L	4PM14EC426	ALP Consulting	Offer letter	

9.6 Entrepreneurship Cell (5)

Total Marks 3.00

Institute Marks : 3.00

Entrepreneurship Cell

Entrepreneurship and Development cell has been established at PESITM and various events have organized to know the importance of being an entrepreneur and ways to get financial assistance to become an entrepreneur and at present Entrepreneurship Awareness programme was held on 1st February 2019 to create awareness to the faculty and students.

How to Become Successful Entreprenur on 6th March 2020

Photo: How to Become Successful Entreprenur

9.7 Co-curricular and Extra-curricular Activities (10)

Total Marks 7.00

Institute Marks : 7.00

Co-curricular and Extra-curricular Activities : For the Acedamic Year 2018-19

SL.NO.	EVENTS	DATE	NO. OF PARTICIPANTS
1	NSS activity SwachBharath	Oct-18	40
2	Awareness program for Govt. Primary School students, Srirampur Shivamogga	Nov-18	65
3	Students participated in sports inter- institute and intra –institute level	April-19, Oct-19,	25
4	E-Hothigekathasparde at B'lore	10th March 2019	01
5	TECHNIE'19 At Jain Institute of Technology Davangere	15th and 16th March 2019	02
6	TECHNIE'19 At Jain Institute of Technology Davangere	15th and 16th March 2019	02
7	Pleiades-2019 at K.L.E Institute of Technology Hubballi Hard ware Hakathon	28th to 30th March 2019	02
8	Pleiades-2019 at KLE Hubballi Technozest	28th to 30th March 2019	02

9	ROBOTICS at SIT Tumkur	23rd March 2019.	04
10	CROSS ROADS at SIT Tumkur	23rd March 2019	04
11	MR.KARNATAKA category Udupi, Body building competition	16th March 2019	01
12	PubG Game Contest under forum Activity	20th March 2019	40
13	Logo Design Contest under forum Activity	12 th February 2019	20

Students Participation Details : For the Acedamic Year 2018-19

Sl.No	USN	STUDENT NAME	EVENT & AWARD	DATE	PLACE
1	4PM15EC409	Lingaraju H.S	1st prize in Script Mania	23th-24th september-2016	KLE Technolgy university hubbali
2	4PM15EC409	Lingaraju H.S	2nd prize in Fungineers	23th-24th september-2016	KLE Technolgy university hubbali
3	4PM14EC097	Sushanth K N	1st prize in Script Mania	23th-24th september-2016	KLE Technolgy university hubbali
4	4PM14EC097	Sushanth K N	2nd prize in Fungineers	23th-24th september-2016	KLE Technolgy university hubbali
5	4PM15EC060	Pallavi V Shet	2nd Prize in pencil Sketch	ECC-2018	PESITM Shimoga
6	4PM15EC029	Mr.Ganeshprasad	1st prize inline follower Robot	23rd march 2019	Siddaganga institution of technology ,Tumkur
7	4PM17EC055	Naveen Kumar	1st prize in in Hardware Hackathon (Pleiades-2019)	28th-30th march 2019	KLE Technolgy university hubbali
8	4PM16EC066	Mr.Ravinandan S Rayabagi	1st prize in in TECHNOZEST (Pleiades-2019)	28th-30th march 2019	KLE Technolgy university hubbali
9	4PM17EC055	Naveen Kumar	1st prize in in TECHNOZEST (Pleiades-2019)	28th-30th march 2019	KLE Technolgy university hubbali
10	4PM17EC065	Pramodkumars.v	1st prize inline follower Robot	23rd march 2019	Siddaganga institution of technology ,Tumkur
11	4PM18EC401	Prashanth S	Mr Karnataka -2019 senior state body champion ship secured 2ND Prize	16th march 2019	Town hall AjjarkandUdupi
12	4PM18EC401	Prashanth S	Mr Smart body -2019 state level body champion ship secured 3rd Prize	10th march 2019	Sambhaji ground ,Mahadwarroad,Belbaum
13	4PM17EC065	Pramodkumars.v	2st prize in cross-road	23rd march 2019	Siddaganga institution of technology ,Tumkur

14	4PM15EC029	Mr.Ganeshprasad	2nd prize in cross –road	23rd march 2019	Siddaganga institution of technology ,Tumkur
15	4PM16EC040	Manjanaik S.B	2nd prize in cross –road	23rd march 2019	Siddaganga institution of technology ,Tumkur
16	4PM16EC048	Nithin S.M	2nd prize in cross –road	23rd march 2019	Siddaganga institution of technology ,Tumkur
17	4PM16EC048	Nithin S.M	1st prize inline follower Robot	23rd march 2019	Siddaganga institution of technology ,Tumkur
18	4PM15EC086	Sanjay y	Frequenzee in 3rd place	15th-16th march 2019	Jain institution of technology ,Davangere
19	4PM15EC060	Pallavi V Shet	Frequenzee in 3rd place	15th-16th march 2019	Jain institution of technology ,Davangere
20	4PM16EC095	.Uday D J	1st prize in in Hardware Hackathon (Pleiades-2019)	28th-30th march-2019	KLE Technolgy university hubbali
21	4PM16EC095	.Uday D J	1st prize in in Hardware Hackathon (Pleiades-2019)	28th-30th march-2019	KLE Technolgy university hubbali
22	4PM16EC095	.Uday D J	1st prize in i TECHNOZEST n (Pleiades-2019)	28th-30th march-2019	KLE Technolgy university hubbali

Student Development Program and Conference Details : For the Acedamic Year 2018-19

Sl.No	USN	NAME	SDP/CONFERENCE	PLACE AND DATE
1	4PM13EC042	Madhura A M	20days Internship Program On ‘’Design & Development Of Embedded Systems”	8th To 27th 2016 Brain Matrix Technologies Udaya Giri Mysore.
2	4PM15EC409	Lingaraju H S	2 Days National Level Students Technical Fest”Advitiya-16”	23rd 24th Sep 2016
3	4PM14EC097	Sushanth K N	2 Days National Level Students Technical Fest”Advitiya-16”	23rd 24th Sep 2016
4	4PM13EC072	Sachin G	IEEE Sit Student Chapter	2016 In Sit Tumkur
5	4PM13EC072	Sachin G	Paper On “Design Of 5:3 Compressor”	30th March 2016 Davanageri
6	4PM13EC072	Sachin G	IEEE Student Branch (Biblus-16)	Nie -2016
7	4PM13EC072	Sachin G	Paper Presented To Nebulus-10	5th&6th April Aitm Bhatkal
8	4PM14EC098	Sushma H B	Virtual Laboratory(Teqip-Ii Funded) (Work Shop)	16 Th Feb 2017 Malnad College Hassan
9	4PM14EC104	Tanzeela	Virtual Laboratory(Teqip-Ii Funded) (Work Shop)	16 Th Feb 2017 Malnad College Hassan

10	4PM14EC105	Usha M T	Virtual Laboratory(Teqip-Ii Funded) (Work Shop)	16 Th Feb 2017 Malnad College Hassan
11	4PM14EC100	Sushmitha G	Virtual Laboratory(Teqip-Ii Funded) (Work Shop)	16 Th Feb 2017 Malnad College Hassan
12	4PM14EC099	Sushma J	Virtual Laboratory(Teqip-Ii Funded) (Work Shop)	16 Th Feb 2017 Malnad College Hassan
13	4PM14EC067	Rashmi R Pai	Virtual Laboratory(Teqip-Ii Funded) (Work Shop)	16 Th Feb 2017 Malnad College Hassan
14	4PM14EC080	Shruthi Shanbag	Virtual Laboratory(Teqip-Ii Funded) (Work Shop)	16 Th Feb 2017 Malnad College Hassan
15	4PM14EC109	Yashaswini	Virtual Laboratory(Teqip-Ii Funded)(Work Shop)	16 Th Feb 2017 Malnad College Hassan
16	4PM14EC105	Sushmitha Patil H M	Virtual Laboratory(Teqip-Ii Funded)(Work Shop)	16 Th Feb 2017 Malnad College Hassan
17	4PM14EC080	Shreedevi Bagewadi	Virtual Laboratory(Teqip-Ii Funded)(Work Shop)	16 Th Feb 2017 Malnad College Hassan
18	4PM16EC092	Syeda Farhathunnisa	“Event In National Level Technical Fest Urja-2k19”	21th And 22th March 2018 Atme College Of Engineering Mysore
19	4PM16EC064	Ranjitha S	“Event In National Level Technical Fest Urja-2k19”	21th And 22th March 2019 Atme College Of Engineering Mysore
20	4PM16EC097	Varsha H J	Prezento“Event In National Level Technical Fest Urja-2k19”	21th And 22th March 2019 Atme College Of Engineering Mysore
21	4PM16EC078	Shreedevi H Patil	Prezento“Event In National Level Technical Fest Urja-2k19”	21th And 22th March 2019 Atme College Of Engineering Mysore
22	4PM16EC090	Sushmitha S M	Prezento“Event In National Level Technical Fest Urja-2k19”	21th And 22th March 2019 Atme College Of Engineering Mysore
23	4PM16EC066	Ravinadan S Rayabagi	Arduino Iot“Event In National Level Technical Fest Urja-2k19”	21th And 22th March 2019 Atme College Of Engineering Mysore
24	4PM16EC095	Uday D J	Arduino Iot “Event In National Level Technical Fest Urja-2k19”	21th And 22th March 2019 Atme College Of Engineering Mysore
25	4PM16EC059	Rahul Bilagi	Robo Vertigo “Event In National Level Technical Fest Urja-2k19”	21th And 22th March 2019 Atme College Of Engineering Mysore
26	4PM16EC099	Varun J	Robo Vertigo “Event In National Level Technical Fest Urja-2k19”	21th And 22th March 2019 Atme College Of Engineering Mysore
27	4PM17EC420	Soumay O G	Robo Vertigo “Event In National Level Technical Fest Urja-2k19”	21th And 22th March 2019 Atme College Of Engineering Mysore
28	4PM16EC066	Ravinadan S Rayabagi	Tech Rig“Event In National Level Technical Fest Urja-2k19”	21th And 22th March 2019 Atme College Of Engineering Mysore
29	4PM16EC066	Ravinadan S Rayabagi	Prezento “Event In National Level Technical Fest Urja-2k19”	21th And 22th March 2019 Atme College Of Engineering Mysore
30	4PM16EC095	Uday D J	Prezento “Event In National Level Technical Fest Urja-2k19”	21th And 22th March 2019 Atme College Of Engineering Mysore

31	4PM16EC052	Pooja D U	Prezento “Event In National Level Technical Fest Urja-2k19”	21th And 22th March 2019 Atme College Of Engineering Mysore
32	4PM16EC059	Rahul R Bilagi	Prezento “Event In National Level Technical Fest Urja-2k19”	21th And 22th March 2019 Atme College Of Engineering Mysore
33	4PM17EC420	Sowmya O G	Prezento “Event In National Level Technical Fest Urja-2k19”	21th And 22th March 2019 Atme College Of Engineering Mysore

NSS Activity

- NSS special camps are arranged during August –September every year. More than hundred boys and girls participate in the camps. Government primary and High school and slum area were selected for community service and educational programmes.
- Activities undertaken by the NSS have included environment enrichment and conservation, health, family welfare and nutrition programmes, projects aimed at creating an awareness for improvement of the status of women, women’s development and gender justice, work in hospitals, production oriented work, non-formal education, healthy life-style education, AIDS awareness programmes, total authorities in rehabilitation work during natural calamities and emergencies.
- There are around 250 students volunteers in NSS unit of PESITM.

NSS Activity “SwachBharath” on 04-10-2-18, Dept. of E&CE, PESITM, Shivamogga

Photo:NSS Activity “SwachBharath” on 04-10-2-18, from Dept. of E&CE,



Photo: NSS Activity “SwachBharath” on 04-10-2-18, from Dept. of E&CE students and faculties.,

Do It Yourself Contest

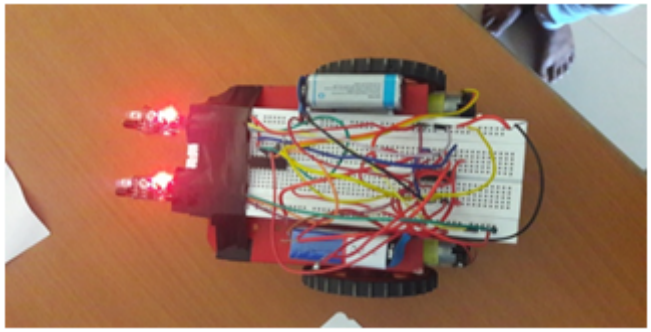



Photo: Competation in Dept. of E&CE students at Miniprojects under ECE forum.

Awareness program on Advances in Technology for Govt. Primary School students, Srirampur Shivamogga.



Photos: Awareness program on Advances in Technology for Govt. Primary School students, Srirampur Shivamogga under NSS activity

UNNAT BHARAT ABHIYAN




Photos: Village surye from ECE students under **UNNAT BHARAT ABHIYAN** at Kadekallu and Bidari,Shivamogga

PUBG GAME CONTEST

Photo: Competation in Dept. of E&CE students on **PUBG GAME CONTEST** under ECE forum.

LOGO DESIGN CONTEST

Photo: Competation in Dept. of E&CE students on **LOGO DESIGN CONTEST** under ECE forum.

10 GOVERNANCE, INSTITUTIONAL SUPPORT AND FINANCIAL RESOURCES (120) Total Marks 110.00

10.1 Organization, Governance and Transparency (40) Total Marks 40.00

10.1.1 State the Vision and Mission of the Institute (5) Institute Marks : 5.00

Vision :
To be the most preferred institution for engineering & management education, research and entrepreneurship by creating professionally superior and ethically strong global manpower.
Mission :
To prepare students for professional accomplishments and responsible global citizenship while fostering continuous learning and to provide state-of-the-art education through the committed and highly skilled faculty by partnering and collaborating with industry and R&D institutes.

10.1.2 Governing body,administrative setup,functions of various bodies,service rules, procedures, recruitment and promotional policies (10) Institute Marks : 10.00

Governing Council of the institute

The Governing Council of the Institute is constituted as per the norms of AICTE, New Delhi, Affiliating University & Govt. of Karnataka and it is the supreme administrative body. The Governing Council of the institute has a robust framework for the governance and it works towards meeting the interests of all stake holders. The Governing Council meets a minimum of two times a year or whenever needed.

The Governing Council of PESITM is given below

Name	Designation	Position
Prof. M R Doreswamy	Chancellor, PES University, Bengaluru	**Chairman**
Sri B Y Raghavendra	Management Trustee, PES Trust (R), Shivamogga Member of Parliament, Shivamogga	**Member**
Prof. JawaharDoreswamy	Treasurer, PES Institutions. Pro-Chancellor- PES University, Bengaluru	**Member**
Sri B. Y. Vijayendra	Joint Treasurer, PES Trust (R), Shivamogga	**Member**
Smt. S. Y. Arunadevi	Joint Secretary, PESITM & Trustee	**Member**
Smt. S. Y. Umadevi	Industry Executive	**Member**
Smt. Tejaswini Raghavendra	Trustee	**Member**
Dr. S. S. Gupta	Director, Rajiv Gandhi Institute for Steel Technology, JSW steels, Bellary, Karnataka. Member.	**Member**
Dr. M R Shivakumar.	Principal, SRSIT, Bangalore	**VTU Nominee Member.**
Dr. G P Prabhukumar	Emeritus Professor New Horizon College of Engineering, Bangalore	**Member**

Dr. L S Nandeesh	Professor of Chemistry, Academic Director and NAAC Consultant (Sri Jagadguru Renukacharya Education Society, Bangalore)	**Member**
Prof. Dr. R. Nagaraja .	Chief Coordinator – Administration, PES Trust (R), Shivamogga	**Member**
Dr. Jagadeesh S N.	HOD & Professor PESITM, Shivamogga	**Member**
Dr. Guruvareddy	Professor, Dept of ECE PESITM, Shivamogga.	**Member**
Dr. Chaitanya Kumar M V	Principal PESITM, Shivamogga	**Member Secretary**

Major Responsibilities of the Governing Council

- To uphold the legal stature of the college in view of AICTE, UGC, State Government and affiliating University (VTU) or any other body or agency.
- To take decisions regarding the intake and addition or discontinuation of any program accordingly recommending the Principal to take formal steps with the affiliating body to put this into action.
- Fix the fee structure and any charges applicable in accordance with the recommendation of administrative bodies and the prescribed fee structure of affiliating university.
- Extension, Renovation or Procurement plans recommended by Core Committee.
- Decide the promotions or penalties as recommended by the Academic Committee.
- Approve the budget and recommend necessary corrections.
- Nominate and constitute other central committees for smooth discharge of responsibilities

Powers and Functions of the Governing Council

The Governing Council shall exercise powers and discharge the functions as follows:

- Ensure proper management& maintenance of the institution in relation to land, infrastructure, equipment, and funds, including loans and grants received from AICTE, Central Government and Government of Karnataka.
- Ensure compliance with norms and standards prescribed by the Government of Karnataka and affiliating University.
- To ensure implementation of provision of acts, instructions, rules, and regulations prescribed by AICTE and Government of Karnataka in matters of service conditions of the staff relating to appointment, leave Provident Fund, age of retirement and disciplinary actions.
- To submit reports and returns from time to time to AICTE, Government of Karnataka and affiliating University.
- Create a peaceful and favorable atmosphere for study free from ragging.

Powers and Functions of Chairperson of Governing Council

- The Chairperson shall ensure that the Governing Council is functioning properly to meet the desired deliverables.
- In the event of taking a vote on any decision and if a tie occurs, then the decision of Chairperson shall be final.
- The Chairperson shall ensure that the decisions taken in the Governing Council meeting are implemented by Member Secretary.

Powers and Functions of Member Secretary of Governing Council

- Principal of the institution, by default, is the Member Secretary of the Governing Council.
- Member Secretary executes the decisions taken in the Governing Council on behalf of the Governing Council.
- He would take correspondence on behalf of the Governing Council meeting in relation to the decisions taken in it and get it confirmed by the Chairperson and members present. With confirmation, the proceedings would be forwarded to AICTE, Government of Karnataka and affiliating University.
- He will exercise powers and functions as maybe imposed and assigned by the Governing Council from time to time.
- The Member Secretary would issue appointment letters to the staff selected by the Recruitment Committee after the approval from the sponsoring trust and the Governing Council of the institute.

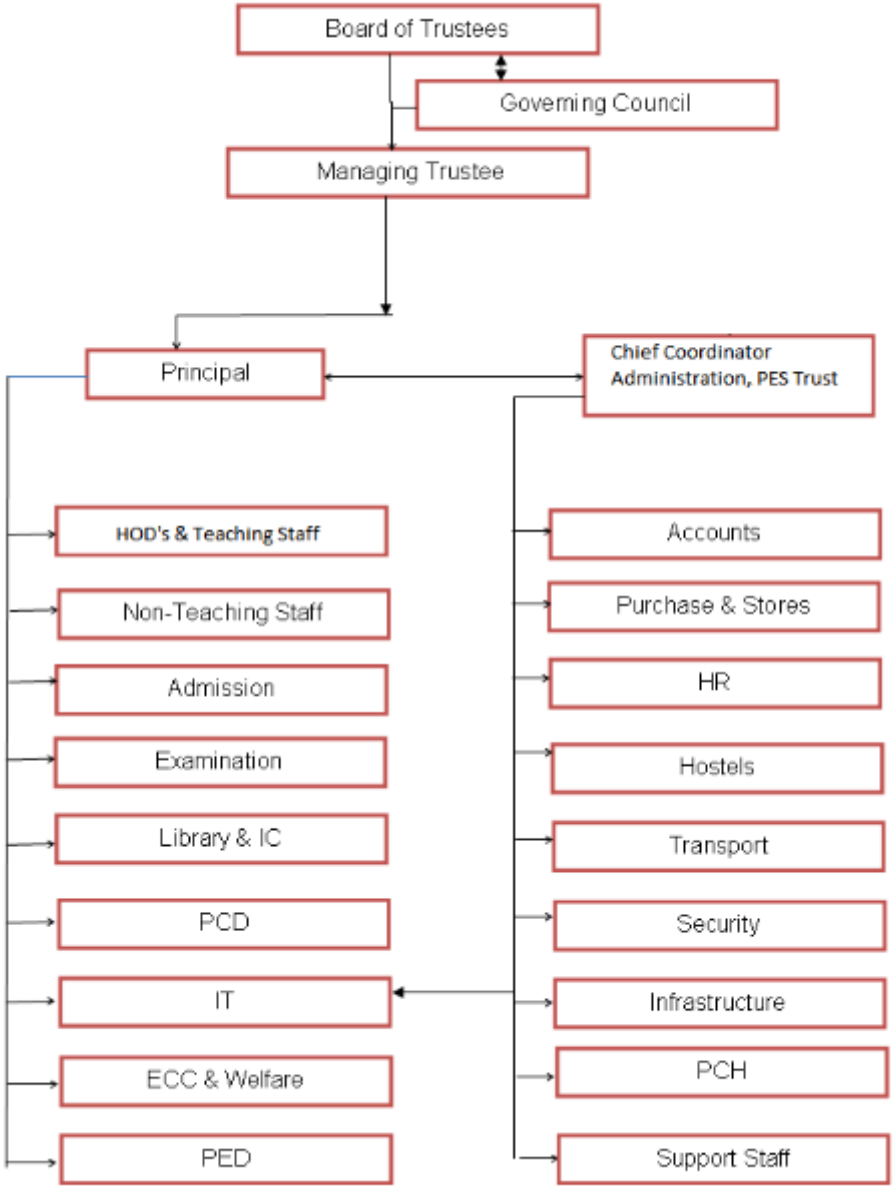


Fig 10.1: Organizational Chart

Functions of key administrative positions

Position	**Functions**

Principal	• He functions as the Head of the Institution and is the Member-Secretary of the GC. • He is responsible for the overall development of the Institution. • Ensure the attainment of the vision of the Institution through strategic mission. • Define quality policy and objectives. • Define & delegate responsibilities of various positions in the organization. • He is the final authority for all academic, admission, administrative, co-curricular and extracurricular, research, placement, innovation, resource mobilization, planning and development, recruitment. • He also coordinate the needs of meeting statutory and regulatory requirements of the government (AICTE, UGC, DTE) and University (VTU). • He channelizes the growth and benchmarking activities of accreditation (NBA/NAAC) and affiliation (VTU) processes for the institute. • He is the single point contact (SPC) for external bodies (industries, academia, regulators, institutions/organizations, companies) and also for stakeholders: industries, parents, and alumni.
Vice-Principal	• To discharge the routine duty of Principal in his absence. • Head of the Internal Quality Assurance cell. • Alumni interaction. • Branding tasks & admissions • Prepare and execute the academic calendar. • Oversee the teaching-learning process. • Carry out result analysis and submit corrective measures to Principal. • Initiate better teaching-learning methods. • Co-curricular activities. • Formation of the student council. • Sports &Cultural activities.

Head of Departments	• He / She is the functional and administrative head of the concerned department. • He/she ensures the smooth running of the concerned department by laying goals and milestones of the department. Vision and Mission statements too are chalked out for streamlining all further actions. • HOD builds and leads the team of required numbers of faculty members • The HOD ensures planning, execution, troubleshooting of all academic activities (theory and lab classes), examination (CIE)along with supporting smooth conduction of VTU examinations, research and publication, projects and developmental activities. • He/she coordinates intra (with IIIC, T & P and other depts. /centers at the institute) and inter (with other academia and industries) institutional communicational roles. • HOD plans and organizes events (conferences, seminars, workshops, and training) and conducts industrial visits and guest lectures for the benefit of dept. (students and faculty members). • He/she organizes meetings with stakeholders (particularly, parents) in the form of PTM. • Develop Calendar of events, Timetables for each section/semester, Upkeep and maintain records of the department, maintain laboratories and assets, assign duties and monitor faculty performance, verifies faculty appraisal, benchmark the growth parameters, monitor mentoring of students by the mentors (faculty team), identify and execute action on departmental needs, develop team towards audits and compliance, monitor R&D and project activities of the department, ensure up-keeping of departmental library, lead team towards publications and IP, seek MOUs from related industries. • He/she renders all support to the team lead, Principal. • He/she encourages and motivates the team to contribute to the positive growth of the department, in turn, the institution.

Manager, Training & Placements	• Director T & P is solely responsible for planning, connecting, organizing, culminating all activities leading to the placement needs of the graduating students. • He develops and nurtures contacts/connects with industries/companies/ organizations/alumni database in view of placement needs. • He ensures the smooth coordination with various stakeholders required for the process of placement. • He initiates the process of feedback collection from the visiting companies/organizations for offering placement and shares with concerned departments for better understanding and possible improvements in the subsequent sessions/years. • He coordinates activities for pool-in placement drives. • Facilitate career guidance to the students. • He significantly contributes to building the brand value of the institution.
I/C Library	• The Librarian is responsible for the resources of the Library and Information Centre comprising of assets in both hard and soft forms. The associated duties are: • He envisages the plans, initiates actions for addressing all possible needs of primary stakeholders - students, teachers and research scholars (via identifying and ordering books, reference material, journals, online resources, issue of resources and maintenance of records). • He with his team undertakes series of tasks towards optimal utilization and for maintenance of the library. • Maintain library discipline and culture. • Prepare annual budget for library
Director Physical Education	• Proposing an annual budget. • Creation and upkeep of sports facilities. • Purchasing of sport items. • Conduct training camps. • Ensure the smooth conduct of sports. • Encourage students to participate in regional / zonal / VTU tournaments.

10.1.3 Decentralization in working and grievanceredressal mechanism (10) Institute Marks : 10.00

Majority of the decisions within the department are made by the respective heads of the departments.

Sl. No	Name	Head of the department
1.	Dr. Jagadeesha S. N.	Computer Science & Engineering
2.	Dr. Hiremath M. N.	Civil Engineering
3.	Dr. Manoj Kumar	Electrical and Electronics Engineering
4.	Dr. Chandrappa D.N	Electronics and Communication Engineering
5.	Dr. Prasanna Kumar H. R.	Information Science & Engineering
6.	Dr. Basavarajappa Y H	Mechanical Engineering
7.	Dr. Prasanna Kumar T M	MBA

A number of committees are present in the college that is formed taking into the considerations of the stakeholders. There is diversification that ensures that the committees address any issues faced by the stake holders and also aims for the improvements under the purview of the respective committees. The various committees, their in-charge, roles and responsibilities & meeting details are given below:

1. Academic Monitoring Committee (AMC)

Name	**Position**
Dr. S N Jagadeesha, HOD-CSE	Chairman
Dr. Guruva Reddy , Vice-Principal	Member
Mr. Rakesh, Dept. of ECE	Member
Dr. Girish, Dept. of ME	Member
Mr. Kiran Kumar, Dept. of EEE	Member
Dr. Manu, Dept. of CSE	Member
Dr. Pramod, Dept. of ISE	Member
Dr. ArvindMallik D M, Dept. of MBA	Member
Dr. Shivkumar, Dept. of Basic Science	Member

Roles & Responsibilities:

- The AMC thoroughly works on designing the educational process
- It continuously reviews and monitors the process keeping in view the emerging needs and expectations of the industry
- The AMC along with the strength of the faculty members continuously works on updating and restructuring the innovative skill sets for promoting academic excellence

- To verify faculty –academic pre-preparation and generate verification reports.
- To conduct monthly audit of course delivery and submit report to HOD.
- To conduct midterm & end term academic monitoring /verification and submit report to HOD
- To maintain departmental academic file
- To prepare departmental academic calendar
- To make sure that daily attendance report of each class is filled properly before submitting.
- To monitor works of class teacher and smooth conduction of academics.
- To conduct departmental audit per semester
- To conduct interdepartmental audit per semester
- To observe lecture conduction of faculty member along with senior faculty members.

Meetings

Academic Year	Date of Meeting	No. of Members Attended	No. of Members Absent
CAY	30/10/2019	09	0
	16/01/2020	09	0
CAYm1	18/10/2018	06	3
	29/01/2019	09	0
	26/04/2019	09	0
CAYm2	20/10/2017	07	2
	29/01/2018	09	0
	27/04/2018	09	0
	26/07/2018	09	0
CAYm3	26/08/2016	09	0
	26/10/2016	07	2
	27/01/2017	09	0
	28/04/2017	09	0
	31/07/2017	08	1

Time Table Committee

Name	Designation
Dr. Aveesh S T, Dept. of Mathematics	Coordinator

Mr. Shivanand D C, Dept. of M.E	Member
Mr. Rakesh M K, Dept. of Civil Engineering	Member
Mr. Raghavendra K, Dept. of CSE	Member
Mr. Vishnu V M, Dept. of ECE	Member
Mr. Arjun U, Dept. of ISE	Member
Mrs. Neetha H M, Dept. of EEE	Member
Dr. Chandru K, First Year	Member

Roles & Responsibilities:

- Time-Table preparation for each department.
- To Prepare Individual Timetable & Room wise Timetable get approval by the Principal.
- Allotment of Classrooms, Labs, Tutorial Rooms etc.
- Correlate the timetable with the calendar of events of the department & College**.**

Meetings

Academic Year	Date of Meeting	No. of Members Attended	No. of Members Absent
CAY	22-01-2020	7	01
CAYm1	06-06-2019	8	00
	05-01-2019	8	00
CAYm2	12-06-2018	8	00
	08-01-2018	8	00
CAYm3	05-06-2017	7	00
	09-01-2017	7	00

2. Discipline Committee

Name	Position
Dr. Girisha L, Associate Professor , Dept. of ME	Chairman
Dr. Praveen Kumar C M, Asst. Professor, Dept. of Chemistry	Member
Mr. Rakesh, Asst. Professor, Dept. of Civil Engineering	Member
Mrs. Neetha, Asst. Professor, Dept. of EEE	Member
Mrs. Prathibha, Asst. Professor , Dept. of CSE	Member

Dr. Sendhil, Physical Director	Member
Dr. M N Hiremath, HOD- CV & Chief Warden – Boys Hostel	Member
Mrs. Yagnodhbhavi, Asst. Professor, Dept. of CV & Chief Warden – Girls Hostel	Member

Roles & Responsibilities:

- To maintain and enforce strict discipline within the college campus.
- All the students should wear their ID Cards while they are in the campus and their respective class rooms.
- In case of any violation of dress code or disturbance in the class, the ID card will be confiscated from the student which will be handed over to the student on the same day with a warning and advice from the Disciplinary Committee Members.
- In case of any misbehavior or violation of the college rules, the ID cards of the students will be kept with the Disciplinary Committee Members till the enquiry is over.
- To enforce total prohibition of cell phone usage by the students within the college campus. Please note that cell phone is prohibited in the college campus and if a student is found carrying a cell phone, it will be taken away and handed over to the Principal.
- To monitor the movement of the students in the college and prevent students loitering around in the corridors during the college working hours.
- To ensure that all the students attend classes without bunking and prevent them from leaving the college early. Please note that no student can leave the college early without prior permission from the concerned authorities.
- Smoking is strictly prohibited in the college campus and ensures that this is being strictly followed.
- To ensure that students maintain complete silence in the library.
- To maintain proper discipline in the college canteen and student common boys/girl resting room during the college working hours.
- If any damage is caused to the college property by any student / group of students, the cost of the same will be recovered with a fine from the said student / group of this will be followed by disciplinary action.
- If any indiscipline is found by any of the students, warn them on the first instance. Take disciplinary action based on the rules and regulations of the committee, if the pattern of misconduct continues.
- Submit the enquiry report of any incidents/issues after conducting a committee meeting.

Meetings

Academic Year	Date of Meeting	No. of Members Attended	No. of Members Absent
CAY	17.08.2019	7	0
	28.09.2019	5	2
	23.09.2019	7	0
	26.11.2019	7	0
	19.12.2019	7	0
	25.02.2020	6	1
CAYm1	03.09.2018	7	0
	24.10.2018	7	0

	31.10.2018	7	0
	24.11.2018	5	2
	20.12.2018	7	0
	11.01.2019	6	1
	23.02.2019	7	0
	27.03.2019	7	0
	20.04.2019	7	0
	29.05.2019	7	0
	22.06.2019	7	0
CAYm2	26.09.2017	7	0
	21.10.2017	7	0
	24.11.2017	5	2
	29.12.2017	7	0
	02.02.2018	6	1
	30.03.2018	7	0
	26.04.2018	7	0
	31.05.2018	5	2
	23.06.2018	7	0

3. Anti-Ragging Committee

Name	**Designation**
Dr. Chaitanya Kumar M V,Principal	Chairman
Dr. Prasanna Kumar T M, HOD-MBA	Coordinator
Dr. Jagadeesha S N, HOD-CSE	Member
Dr. Manoj Kumar, HOD - EEE	Member
Dr. Shivkumar K, HOD-Chemistry	Member
Dr. Sendhil, Physical Education Director	Member
Dr. Basavarajappa Y H, HOD-M.E	Member
Dr. Prasanna Kumar H R, HOD-ISE	Member
Dr. M N Hiremath, HOD-Civil & Warden-Boys Hostel	Member
Dr. Chandrappa D N, HOD-ECE	Member
Dr. Aveesh, HOD-Maths	Member
Dr. PramodPai, HOD-Physics	Member
Mrs. Yagnodbhavi H M, Dept. of Civil Engg.	Member
Mr. Ramesh, Resident Warden – Boys Hostel	Member

Mrs. Manjula, Resident Warden – Girls Hostel	Member
Mr. SuhasBharadwaj, Student – ME	Member
Ms.SwathiSarang, Student - ISE	Member
Mr. Abhijith H K, Student – Civil Engg.	Member

Roles & Responsibilities:

- Preventing the menace of ragging in the college and making the campus zerp ragging zone.
- Ensure anti-ragging instructions are displayed at prominent places in college campus and hostels
- To make surprise raids in the college, hostels and other vulnerable places where students generally visit and where either the incidents of ragging have occurred or which are potentially prone to ragging.
- To conduct an on-the-spot enquiry into any incident of ragging referred to it by any member of the committee or any faculty as the case may be.
- If any such above incidents are observed, take immediate action to prevent the same and report the same to the principal without any delay.

Meetings

Academic Year	Date of Meeting	No. of Members Attended	No. of Members Absent
CAY	27/09/2019	18	0
	25/07/2019	14	4
CAYm1	09/08/2018	11	1
CAYm2	09/08/2017	12	0
CAYm3	25/08/2016	10	0

4. Co-curricular and Extra-Curricular Activities Committee

Name	Position
Dr. Prasanna Kumar T M, HOD-MBA	Chairman
Mr. Rakesh M K, Dept. of Civil Engineering	Member
Mrs. Deeksha Kamath, Dept. of Basic Science	Member
Mr. Shivayogappa H. J., Dept. Of ECE	Member
Mr. Puneeth B. H., Dept. of CSE	Member
Mr. Vinay S. K, Dept. of ISE	Member
Mrs. Neetha H. M., Dept. of EEE	Member
Mr. Maltesh Kumar Deshpande, Dept. of M.E	Member
Ms. Divya H. A, Dept. of Civil Engineering	Member

Roles & Responsibilities:

- The Cultural Committee shall be responsible for all intra and inter collegiate cultural events in the Institute.

- To plan and schedule cultural events for the academic year.
- The Convener of the committee shall conduct a meeting of the committee to discuss and delegate tasks.

- To prepare the Annual Budget for various cultural events.
- Motivating students to participate in cultural events organized at College, University, National and International levels.
- Organizing cultural events for staff members

Meetings

Academic Year	Date of Meeting	No. of Members Attended	No. of Members Absent
CAY	17/11/2019	09	0
	17/02/2020	09	0
	24/02/2020	09	0
CAYm1	17/08/2018	08	0
	15/11/2018	07	1
	04/02/2019	08	0
	05/04/2019	08	0
CAYm2	19/08/2017	08	0
	14/11/2017	07	1
	03/02/2018	08	0
	12/02/2018	07	1
	26/02/2018	08	0
	19/05/2018	08	0
CAYm3	24/08/2016	08	0
	10/11/2016	08	0
	06/02/2017	07	1
	18/02/2017	05	3
	25/02/2017	08	0
	13/05/2017	08	0

5. Sports Committee

Name	Designation
Dr. Shivkumar, Professor, Basic Science	Chairman
Dr. Sendhil, PED	Member Secretary
Mr. Sunil M E, Dept. of CSE	Member
Mr. Shanthaveeresh, Dept. of EEE	Member

Mr. Shashank B, Dept. of ECE	Member
Mr. Arjun U, Dept. of ISE	Member
Mr. Sanjay, Dept. of Civil Engineering	Member
Mr. Ganesh U L, Dept. of M.E	Member
Mr. Praveen Gujjar, Dept. of MBA	Member

Roles & Responsibilities:

- To provide an environment for physical development of the students.
- To develop team spirit among the students.
- To provide opportunity for the students to showcase their talent in sports.
- To promote sportsmanship among students by organizing various sports activities.
- Organizing various indoor and outdoor games during sports week.
- Motivating students to participate in sports events organized at University, national and international levels.
- Organizing sports events for staff members.

Meetings

Academic Year	Date of Meeting	No. of Members Attended	No. of Members Absent
CAY	01/08/2019	09	0
	23/01/2020	09	0
CAYm1	06/08/2018	09	0
	30/01/2019	09	0
CAYm2	02/08/2017	09	0
	05/01/2018	09	0
CAYm3	05/08/2016	09	0
	05/01/2017	09	0

6. NSS Committee

Name	Designation
Mr. Prasanna Nayak H, Dept. of ME	NSS Officer
Mr. Ganesh U L, Dept. of ME	Member
Mr. Puneeth B H, Dept. of CSE	Member
Mr. Amshith Kumar, Dept. of Civil Engineering	Member
Mr. Venkatesh, Dept. of ISE	Member
Mr. Shivayogi, Dept. of ECE	Member

Mr. Shantveeresh, Dept. of EEE	Member
Mr. Arjun J, Dept. of MBA	Member
Dr. Chandru K, First Year	Member

Roles & Responsibilities:

- Develop a sense of social and civic responsibility among students.
- Utilize student's knowledge in finding practical solution to individual and community problems.
- Acquire leadership qualities and democratic attitude.
- Develop community service attitude during emergencies and natural disasters.

Meetings

Academic Year	Date of Meeting	No. of Members Attended	No. of Members Absent
CAY	07/08/2019	09	0
	11/02/2020	08	1
CAYm1	08/08/2018	07	0
	07/02/2019	08	0
CAYm2	11/08/2017	06	1
	13/02/2018	07	0
CAYm3	09/08/2016	08	0
	20/02/2017	07	0

7. Grievance Redressal Committee

Grievance Redressal Committee is constituted as per AICTE regulations. The committee shall meet within a week from the date of receipt of any petition/complaint from any student and take necessary action as deem fit and initiate necessary action for solving problem.

Mechanism for redressing grievance.

- The departmental level grievances are attended by the concerned Class Coordinators, Mentors / or Department Heads.
- Unresolved grievances at the departmental level are referred to the Grievance Redressal Committee of the institution.
- The committee shall send report with recommendations to all concerned within 15 days from the date of receipt of the complaint

Note: Student can register complaint through online using college website.

Grievance Redressal Committee: 2019-20

Name	Position
Dr. Chaintanya Kumar M V, Principal	Chairperson
Dr. Prasanna Kumar T M, HOD-MBA	Member

Mrs. Shyamala S. C., Assistant Professor, ECE	Member
Dr. Praveen Kumar C.M., Assistant Professor, Basic Science	Member
Mr. Roshan, Student - CSE	Special Invitee

Roles & Responsibilities:

- To resolve student grievances related to both academic as well as non-academic matters.
- To ensure there is no bias or prejudices while dealing with students
- To promote and establish transparent practices related to students
- To create a conducive environment for learning

Meetings

Academic Year	Date of Meeting	No. of Members Attended	No. of Members Absent
CAY	27/09/2019	05	0
CAYm1	09/08/2018	08	0
CAYm2	09/08/2017	08	0
CAYm3	25/08/2016	08	0

8. Anti-Sexual harassment Committee

Name	Designation
Dr. Sunitha B S, Associate –Professor , CSE	Chairperson
Mrs. Yagnodhbavi H M, Assistant Professor, Civil	Member
Mrs. Shymala S C, Assistant Professor, ECE	Member
Dr. Prasanna Kumar H R, HOD-ISE	Member
Mrs. Vani G S, Assistant Professor, ISE	Member
Mrs. Manjula, Office-Executive	Member

Roles & Responsibilities:

- Prevent discrimination and sexual harassment against women (active and preventive in nature) in the campus, hostel and college premises by promoting gender amity among students.
- Prevention of sexual harassment to ensure safe learning environment for girl students
- To ensure provision of an educational environment that is free from sexual harassment.
- To address any oral, written or online complaint at WECARE about sexual harassment.

Sexual harassment includes oral or written statements of a sexual nature to a person , or in a person’s presence.

- Aiming at ensuring support services to the victimized and termination of the harassment.
- If any such incidents occur / found, report the same to the Principal immediately.

Meetings

Academic Year	Date of Meeting	No. of Members Attended	No. of Members Absent
CAY	09/09/2019	7	2
	18/11/2019	6	0
CAYm1	16/08/2018	9	2
	14/09/2020	6	0
CAYm2	09/08/2017	9	0
	23/10/2017	6	0
CAYm3	25/08/2016	9	0

9. Entrepreneur Development Cell (EDC)

Name	Position
Dr. Chandrappa D N, HOD- ECE	Coordinator
Dr. Basavarajappa Y H , HOD- ME	Member
Dr. Pramod S P, CDC	Member
Dr. Nandan N Shenoy, Dept. of Civil Engineering	Member
Mr. Kunja D Shinde, Dept. of ECE	Member
Mr. Santosh M B, Dept. of ME	Member
Mr. Pradeep K. Dept of CSE	Member
Mr. Kiran Kumar G R, Dept. of EEE	Member
Mr. Arjun J, Dept of MBA	Member

Roles & Responsibilities:

- To create an entrepreneurship eco-system in the institute, where students would learn the technicalities of entrepreneurship and become job providers instead of job seekers.
- To be in continuous contact with District Industry Officer, KSFC and other Government and private nodal agencies.
- To arrange lectures on establishment of new start-ups, MSM enterprises.
- Strive to establish an incubation centre with Governmental funding.
- Create a strong network of mentors who would provide sector specific knowledge & real world practical guidance.
- To arrange Entrepreneurship training programs, conduct events and inspirational programs.

- Build a strong team with adequate knowledge and experience in guiding start-ups, building business plans, facilitating investments, building networks, etc.

Meetings

Academic Year	Date of Meeting	No. of Members Attended	No. of Members Absent
CAY	09.01.2020	08	Nil
CAYm1	04.10.2019	08	Nil
CAYm2	06/09/2018	08	Nil
CAYm3	16/04/2018	08	Nil

10. Training & Placement Cell

Name	Designation
Dr. Manoj Kumar, HOD-EEE	Chairman
Mr. Pramod S Prabhudev, Manager – T&P	Member Secretary
Mr. Kalpana S - EEE	Member
Mr. Chethan B R -ECE	Member
Dr. Likewin Thomos - CSE	Member
Mr. Arjun U – ISE	Member
Mr. Vinod Rampur - ME	Member
Mr. Sharath S K - Civil	Member
Mr. Arjun J - MBA	Member

Roles & Responsibilities:

- To review the Training & Placement Performance of every outgoing batch of Graduates.
- To understand the Industry Specific Skills and being aware of trending technologies with respect every specialization.
- To analyze the academic performances of students and orient students about eligibility criteria of Companies.
- To ensure maximum student participation in all Training & development initiatives.
- To facilitate Internships, Guest talks, Industry Specific Workshops, Academic Projects,

Industry initiatives and campus recruitment drives. To maintain connectivity with all campus recruited students for mentoring and training programs.

Meetings

Academic Year	Date of Meeting	No. of Members Attended	No. of Members Absent
CAY	21st Sep, 2019	9	0

CAYm1	24th Jan, 2020	8	1
CAYm2	5th oct, 2018	8	1
CAYm3	11th Sep, 2017	9	1

11. Purchase Committee

Sl. No.	Designation	Name of the Person	Position
1	CCA, PES Trust (R) &	Dr. Nagaraja R	Chairman (Authorized to sign POs)
2	Principal, PESITM		Member (Authorized to sign POs)
3	Head /Section Head of the concerned Dept		Member
4	Senior Professor, of the concerned Dept		Member
5	Assistant Professor Dept. of Civil Engg.	Mr. Nandan N Shenoy	Member Secretary

Roles & Responsibilities:

- To scrutinize requisitions for equipment of various departments and decide upon the necessity of purchasing the equipment, keeping in view the requirements specified by the University, AICTE, NBA, NAAC, GOI, GOK etc.
- To coordinate all the purchases of various Departments and ensure the procurement of required items as per schedule
- To call and scrutinize tenders/ quotations for items of purchase, with the help of department.
- To ensure that the supplies/services quoted for comply with what was requested.
- To carry out discussions and negotiations with suppliers and procure the best quality items with competitive price.
- To seek clarification from suppliers/service providers wherever necessary.
- To finalize the terms and conditions in the purchase order.
- To forward the negotiated /finalized quote for approval of the management through
- To arrange for sending the purchase order, inspection and acceptance/ rejection of the equipment received, with the help of department.
- To communicate the decision of the Committee to concerned department.
- Normally frequency of the CPC meeting should be once in 15 days; whereas in case of urgency and necessity CPC can meet as and when required.
- If the value of the purchase falls lesser than Rs 10,000/- (Ten Thousand Rupees), Purchase section/Dept with the consent of the chairman may proceed with purchasing the indented items directly without the approval of the Purchase committee.

Meetings

Academic Year	Date of Meeting	No. of Members Attended	No. of Members Absent
CAY	14/02/2020	05	00
CAYm1	23/08/2018	04	00
CAYm2	27/04/2017	04	00
CAYm3	26/08/2016	04	00

12. Budget Committee

Sl. No.	Designation	Name of the Person	Position
1	Governing Council Member	Mrs. Umadevi S Y	Chairperson
2	CCA, PES Trust (R)	Dr. Nagaraja R	Member
3	Principal, PESITM		Member
4	All Department HODs		Members
5	Accounts Manager		Member
6	Assistant Professor, Civil Engg	Mr. Nandan N Shenoy	Member Secretary

Roles & Responsibilities:

- Ensuring that the financial elements of the institution are in accordance with its vision, mission, objectives and strategic plan.
- To assist PES Trust in fulfilling its fiduciary responsibility.
- To protect the organization from legal challenges and liabilities.
- To guard the organization against illegal, unethical, or incompetent activities by fiscal managers.
- To protect the organization from actual or apparent conflict of interest.
- To act as an advisory panel to the financial operations.
- To evaluate both the financial operations and the people in charge of it meticulously.
- To be vigilant of illegal, unethical, or incompetent financial dealings engaged in by individuals or groups that the organization deals with, or financial arrangements that may harm the organization.
- Participating in the annual audit and carry out meticulous pre-audit checks.
- Evaluating PESITM’s fiscal operations, and those in charge of it.
- Reporting to the board of trustees about the financial conditions of PESITM, and/or any financial irregularities or inefficiencies regularly.
- To evaluate and approve budget of the programmes, activities, conferences, FDPs, SDPs, Workshops, Symposiums and/or any other academic, curricular and co-curricular, any other events of PESITM.
- Examine and scrutinize the annual budget of the Institute prepared by the principal and make suggestions and recommendations.

- To take up any other activity/responsibility as assigned by the Managing Trustee from time to time.

Meetings

Academic Year	Date of Meeting	No. of Members Attended	No. of Members Absent
CAY	09/12/2019	13	00
CAYm1	03/01/2019	13	00
CAYm2	06/12/2017	13	00
CAYm3	05/12/2016	13	00

13. Student Welfare Committee

Name	Designation
Dr. Prasanna Kumar H R, HOD-ISE	Chairman
Mrs. Yajnodhbavi, Dept. of Civil Engineering	Member
Mr. Amruth, Dept. of M.E	Member
Mr. Pradeep, Dept. of CSE	Member
Mrs. Neetha, Dept. of EEE	Member
Dr. Pramod, Dept. of ISE	Member
Mr. Praveen Kumar B H, Dept of MBA	Member
Dr. Chandru, Dept. Of Mathematics	Member

Roles & Responsibilities:

- Addressing the students regarding issues with facilities available in the college.
- Addressing the issues regarding Ragging in the campus.
- Giving awareness to students regarding various scholarship schemes.
- Giving awareness about reporting issues through website link (we care), email to student welfare process, suggestion box
- Conducting the meeting at least two times in a year to resolve the student's issues and taking necessary actions. Meeting can be called as and when required, depending upon the seriousness of the issue.
- If any issues found, immediately report to the Principal.

Meetings

Academic Year	Date of Meeting	No. of Members Attended	No. of Members Absent
CAY	06/08/2019	08	0

	31/10/2019	08	0
	27/01/2020	07	1
CAYm1	30/08/2018	09	0
	28/11/2018	08	2
	20/02/2019	09	0
CAYm2	31/08/2017	09	0
	28/12/2017	09	0
	12/02/2018	09	0
CAYm3	16/08/2016	08	1
	30/08/2016	09	0
	30/11/2017	09	0
	01/02/2017	07	2
	03/05/2017	09	0

10.1.4 Delegation of financial powers (10)

Institute Marks : 10.00

Preparation of the budget is very important for running any departments. Every department at PESITM prepares a budget before the commencement of the academic year. Department Heads, with Senior Professors give the requisition to the Principal with regard to stationery, lab requirements, etc, for which budget allocations are approved by the Principal in discussion with the Management. Also, every Department Head is expected to give separate budget for FDPs, SDPs and any other activities planned by the department to Principal for approval.
Key administrative personnel are empowered to take decision with regard to spending money for any important operational purpose and the table given below outline financial powers for these personnel.

Sl.No.	Designation	Financial Power (in Rs.)
1	Chief Coordinator – Administration (CCA)	1,00,000.00
2	Principal	50,000.00
3	All HoDs	25,000.00

10.1.5 Transparency and availability of correct/unambiguous information in public domain (5)

Institute Marks : 5.00

Information of PESITM Policies, Rules, Processes and Dissemination made available to the public on the college website. The URL is http://pestrust.edu.in/pesitm

10.2 Budget Allocation, Utilization, and Public Accounting at Institute level (30)

Total Marks 26.00

10.2.1 Adequacy of budget allocation (10)

Institute Marks : 9.00

Before the commencement of every academic year a meeting of all the Heads of departments is convened and budgetary requirement is taken, which includes procurement of new equipment, maintenance/servicing of existing equipment, consumables required, building space and also books required for the library. For buildings detailed plans and estimates are prepared and approval is taken for the same in the Governing Council meetings. A detailed report of all the development works undertaken and their current status is presented in the Governing Council meeting. The budgetary requirements are met through the admission fees collected from the students and the revenue generated. The budget allocated at the beginning of the financial year is adequate for managing the expenditure during that year. In case of any additional funds required, the management provides the requisite support.

Summary of currentfinancial year's budget and actual expenditure incurred(for the institution exclusively)in the three previous financial years :

Total Income at Institute level: For CFY,CFYm1,CFYm2 & CFYm3
CFY : (Current Financial Year),
CFYm1 : (Current Financial Year minus 1),
CFYm2 : (Current Financial Year minus 2) and
CFYm3 : (Current Financial Year minus 3)

Table 1 - CFY 2019-20

Total Income 146168166				Actual expenditure(till…): 108179016			Total No. Of Students 2023
Fee	Govt.	Grants	Other sources(specify)	Recurring including salaries	Non Recurring	Special Projects/Anyother, specify	Expenditure per student
115783734	0	0	30384432	69411299	8767717	30000000	53474.55

Table 2 - CFYm1 2018-19

Total Income 184698171				Actual expenditure(till…): 128476672			Total No. Of Students 2037
Fee	Govt.	Grants	Other sources(specify)	Recurring including salaries	Non Recurring	Special Projects/Anyother, specify	Expenditure per student

134562570	0	0	50135601	99194918	9281754	20000000	63071.51

Table 3 - CFYm2 2017-18

Total Income 181521628				Actual expenditure(till…): 132982432			Total No. Of Students 2123
Fee	Govt.	Grants	Other sources(specify)	Recurring including salaries	Non Recurring	Special Projects/Anyother, specify	Expenditure per student
131226010	0	0	50295618	91944757	21037675	20000000	62638.92

Table 4 - CFYm3 2016-17

Total Income 179185454				Actual expenditure(till…): 104286874			Total No. Of Students 2197
Fee	Govt.	Grants	Other sources(specify)	Recurring including salaries	Non Recurring	Special Projects/Anyother, specify	Expenditure per student
129510935	0	0	49674519	74923898	9362976	20000000	47467.85

Items	**Budgeted in 2019-20**	**Actual Expenses in 2019-20 till**	**Budgeted in 2018-19**	**Actual Expenses in 2018-19 till**	**Budgeted in 2017-18**	**Actual Expenses in 2017-18 till**	**Budgeted in 2016-17**	**Actual Expenses in 2016-17 till**
Infrastructure Built-Up	279066.70	253697.00	4000000	2437173	10000000	10090809	2900000	2480133
Library	576816.00	567376.00	1500000	1249517	1500000	1315139	1100000	973480
Laboratory equipment	6729962	5189351	3620000	3281160	6050000	5133139	4300000	3759356
Laboratory consumables	286472.00	286472.00	900000	786085	1300000	1034857	300000	165886

Teaching and non-teaching staff salary	58138580.00	709336804	70000000	69895181	70000000	62841764	60000000	52735441
Maintenance and spares	971159.00	55742.00	6000000	5677020	6500000	6260659	4000000	3819908
R&D	100000	100000	100000	125000	100000	159000	100000	109000
Training and Travel	1608808	1528697	2800000	02441309	6350000	4790414	2825000	2398296
	2458310.00	721359.00	11000000	10896523	10000000	10139267	8800000	8275427
Others, specify	7556778.36	1410791.00	12000000	11940110	10000000	11668210	10000000	10093122
Total	**78705952.06**	**719450289.00**	**111920000**	**108729078**	**121800000**	**113433258**	**94325000**	**84810049**

10.2.2 Utilization of allocated funds (15)

Institute Marks : 12.00

The allocated funds are utilized properly and are adequate as per the Academic requirements. The budget funds are utilized on priority basis as per the requirements of each department, based on availability of funds. However, all recurring and non-recurring expenditure of departments is met in full (including salaries, lab consumables etc).

Year	Total budget (in laks)		Actual Expenditure (in laks)	
	Non recurring	Recurring	Non recurring	Recurring
2019-20	9644489	76352428	8767717	69411299
2018-19	10209929	109114409	9281754	99194918
2017-18	23141443	101139232	21037675	91944757
2016-17	10299274	82416287	9362976	74923898

10.2.3 Availability of the audited statements on the institute's website (5)

Institute Marks : 5.00

PESITM Financial year 2018-19, 2017-18, and 2016-17 Audit Reports made available on the college website. The URL is https://pestrust.edu.in/pesitm/audit-report/ (https://pestrust.edu.in/pesitm/audit-report/)

10.3 Program Specific Budget Allocation, Utilization (30)

Total Marks 26.00

10.3.2 Utilization of allocated funds (20)

Institute Marks : 18.00

The allocated funds are utilized properly, and adequate as per the Academic requirements.

Year	Approved Budget	Actual Expenditure	Percentage of utilization
2019-20	29658372	24194919	82
2018-19	67214000	64072554	95
2017-18	66394000	62172860	94
2016-17	54465000	50794802	93

Institute Marks :

Total Income at Institute level: For CFY,CFYm1,CFYm2 & CFYm3

CFY: (Current Financial Year),

CFYm1 : (Current Financial Year minus 1),

CFYm2 : (Current Financial Year minus 2) and

CFYm3 : (Current Financial Year minus 3)

Table 1 :: CFY 2019-20

29658372		Actual expenditure (till…): 24194919		Total No. Of Students 411
Non Recurring	Recurring	Non Recurring	Recurring	Expenditure per student
15,089,296	14,569,076	12,289,220	11,905,699	58868.42

Table 2 :: CFYm1 2018-19

67214000		Actual expenditure (till…): 64072554		Total No. Of Students 440
Non Recurring	Recurring	Non Recurring	Recurring	Expenditure per student
33,672,000	33,542,000	32,089,543	31,983,011	145619.44

Table 3 :: CFYm2 2017-18

66394000		Actual expenditure (till…): 62172860		Total No. Of Students 497
Non Recurring	Recurring	Non Recurring	Recurring	Expenditure per student
33,912,000	32,482,000	31,709,275	30,463,585	125096.30

Table 4 :: CFYm3 2016-17

54465000		Actual expenditure (till…): 50794802		Total No. Of Students 507
Non Recurring	Recurring	Non Recurring	Recurring	Expenditure per student
27,295,000	27,170,000	25,416,990	25,377,812	100186.99

Items	Budgeted in 2019-20	Actual Expenses in 2019-20 till	Budgeted in 2018-19	Actual Expenses in 2018-19 till	Budgeted in 2017-18	Actual Expenses in 2017-18 till	Budgeted in 2016-17	Actual Expenses in 2016-17 till
Laboratory equipment	200000.00	70000	80000	62000	450000	393999	60000	24268
Software	270220.00	270220	0	0	0	0	0	0
Laboratory consumable	59076.00	59076	200000	174144	100000	55062	40000	32811
Maintenance and spares	250000	197012.02	250000	202641	200000	189767	200000	128780
R & D	48000	24000	48000	24000	48000	24000	48000	24000
Training and Travel	50000	43301	50000	44532	30000	24648.5	15000	14910
	1500000	555956	20342000	20084029	21382000	20238916	17125000	15474731
Total	**2377296.00**	**1219565.02**	**20970000**	**20591346**	**22210000**	**20926392.5**	**17488000**	**15699500**

10.3.1 Adequacy of budget allocation (10)

Institute Marks : 8.00

The Head of the department instructs the concerned lab in charges to provide the budget required for the coming academic year. The Lab in charge provides, both, recurring and non recurring expenditure budget required for the lab. Based on the budget provided by various lab in charges the a final budget proposal will be prepared with the following items Laboratory equipment

- Laboratory consumables
- Maintenance and spares
- Miscellaneous expenses

The budget provided by the institute to the department is adequate to maintain and procure new items for the departments, to meet the academic requirements. The yearly budget is prepared according to the needs & requirements of the departments taking into consideration of annual intake of students, laboratory & infrastructure developments. The budget allocation and utilization for the last four years is adequate.

10.4 Library and Internet (20)

Total Marks 18.00

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

Institute Marks : 8.00

LIBRARY AND INFORMATION CENTER

The library occupies a place of pride and is most lively place in the campus. It is well-furnished and its pleasant ambience with spacious reading room creates conducive environment to faculty and students and serves as a creative and innovative partner in supporting teaching, learning and research activities of the college.

- **Relevance of available learning resources including e-resources**

Library is contributing to achieve the goal and mission the institution. The collection of the library is rich and diverse comprising both digital and print form. The collection includes books, e-books, Journals(print and electronic), project reports, Conference proceedings etc., Library gives utmost importance to collection development of learning materials. The department heads in consultation with the department faculties recommend the required learning materials to be added to the library. The number of titles and volumes are added every year in accordance with the norms and standards set by VTU and AICTE.

- **Accessibility to students**

Library Collection:

The rich collection of the library comprises the following resources:

Sl.	Learning / Reading Materials	Copies
1	Books (Print)	54,641
2	Books (Electronic)	23,629
3	Journals (print)	73
4	Journals (Electronic)	1,113
5	Magazines	15
6	News papers	14
7	CDs/DVDs	469
8	Project reports	315

A campus wide access to various E-resources subscribed to the library through VTU consortium is made through IP enabled access. Any number of users can access to resources at a time. Remote access to the E-resources is provided through KNIMBUS. Users can also access to digital resources through app called mLibrary. Digital library with 16 computers has been established to access E-resources and use NPTEL.

List of Electronic resources subscribed:

Sl.No	ELECTRONIC RESOURCES	TOTAL RESOURCES	URL to access
1	McGraw Hill Education	505 E-Books	http://mcgrawhilleducation.pdn.ipublishcentral.com/ (http://mcgrawhilleducation.pdn.ipublishcentral.com/)

2	Knimbus Open access resouces	E-Books : 10,000+ E-Journals : 5700+	https://pesceb.new.knimbus.com/user#/home (https://pesceb.new.knimbus.com/user#/home)
3	Taylor and francis (E-Books & Journals)	555 Journals + 4950 E-Books	http://www.tandfonline.com/ (http://www.tandfonline.com/)
4	Springer nature (E-Books & Journals)	690 Journals+ 13000 E-books	https://link.springer.com/ (https://link.springer.com/)
5	Sententia Grammar Tool	..	https://sententia.online/ (https://sententia.online/)
6	Emerald management collection (Journals)	120 JOURNALS	https://www.emeraldinsight.com/ (https://www.emeraldinsight.com/)
7	Institution of Civil Engineers (ICE Journals)	10 Journals + 21 Conference Proceedings	https://www.ice.org.uk/ (https://www.ice.org.uk/)
8	ELSEVIER – SCIENCEDIRECT (CSE)	436 E-Books (Perpetual Access)	https://www.sciencedirect.com/ (https://www.sciencedirect.com/)
9	New Age International	220 E-Books (Prepetual Access)	http://www.newagepublishers.com/servlet/nahome/ (http://www.newagepublishers.com/servlet/nahome/)
10	Packt E-Books	5002 E-Books (Perpetual Access)	https://prod.packtpub.com/in/ (https://prod.packtpub.com/in/)

Area and Seating Capacity:

Total area of library is 1171.65 Sq. Mtr.

Seating capacity is 120

Library hours:

Library is functional on all week days and remains open for 12 hours a day.

Working hours of the library

Monday - Friday : 8.00 a.m. to 8.00 p.m.

Saturday : 8.00 a.m. to 5.00p.m.

Sunday : 9.00 a.m. to12.00 p.m.

Library staff:

There are 8 library staff working in library in shifts with 4 staff with professional degree and 4 non professionals

Staff details

Sl. No.	Name	Designation	Qualification
1.	Chandrashekar K. L	Senior Librarian	M.Sc. (lib & Inf science), M.Phil, KSET (PhD)
2.	Raja A	Asst. libn	M.L.I.Sc,
3.	Chandrashekar V. M	Asst. libn	M.L.I.Sc,
4.	Prakash R	Asst. libn	M.L.I.Sc,
5.	Chetan Kumar S. B	Libray Assistant	B.A. (B.L.I. Sc.)
6.	Sunanda M C	Libray Assistant	ITI
7.	Tulasi R	Libray Assistant	PUC
8.	Uday Kumar K	Libraty Attendant	SSLC

Computerisation of library activities :

Computerisation of library activities is done using LIBSOFT software. All the activities of library viz. Acquisition, cataloguing, circulation (Issue/Return), Online public access Catalogue (OPAC). For easy handling of data Barcode technology is also used to barcode learning materials.

Services provided:

Sl. No.	Services	Descriptions
1.	Reference	Separate section is available in the first floor of library with the collection of 3500 reference copies
2.	Circulation service	Issue and return of books on loan for a period of 14 days
3.	Reprography	Photocopy facility is made available inside the library
5.	Information deployment and notification (Current Awareness service)	Newly procured books are displayed at the entrance of the library and also the list is hosted on to the library website. E-mail alerts are also sent.
6.	Internet Access	Digital library with 16 computers with internet at 10mbps is established for the benefit of users in the library.
7.	Bibliography compilation	Bibliographic compilation of Journal articles.
8.	In-house/remote access to e-resources	All the subscribed resources are accessible in house via LAN and remote access is provided through Knimbus.
9.	User Orientation	Orientation is conducted once in every semester compulsorily and as and when demand placed by users.
10.	Assistance in searching database	User will be assisted in searching database in digital library by library staff.
11	Book bank	Book bank facility for all students under which students can borrow 3-4 books for a whole semester and for SC/ST students 2 extra books under SC/ST book bank scheme.
12	Online public Access catalogue(WEB OPAC)	OPAC will provide the bibliographical details of books, Journal articles.
13	Institution Repository	Scholarly publicatons of faculty members, Old Question papers, Newspaper clippings and other reading materials are also made available for students. Over 6000 items are available.

- **Support to students for self-learning activates**

The Library provides excellent facilities and academic ambience for its users for self-learning activities with following initiatives

a. **NPTEL (National programme in Enhanced learning):** Library has established separate NPTEL server to host NPTEL videos which can be accessed via intranet within the campus. One can access the videos in the entire campus without internet. It offers more than 20000 videos of different streams of engineering and Management. These videos serve as a supplement to classroom teaching and learning activities.

b. **SWAYAM (Study Webs of Active-Learning for Young Aspiring Minds) and MOOC (Massive Open Online Courses)**: Library has made arrangements for the user to access SWAYAM and and MOOC. We encourage students to take online courses.

c. **e-PG Pathshala:** e-PG Pathshala is an initiative of the MHRD under its National Mission on Education through ICT (NME-ICT). Link to e-PG Pathshala is provided to create awareness and to encourage students to take online courses.

d. **Shodhganga:** The Shodhganga@INFLIBNET Centre provides a platform for research students to deposit their Ph.D. theses and make it available to the entire scholarly community in open access. Link to Shodhganga is provided to create awareness and to encourage students to use it.

e. **Open access resources:** Link of many open access resources is provided which helps in self-study of the students.

f. **National Digital library:** Our library has obtained Institutional membership of NDL. We enroll our students and faculty to NDL and encourage to uses lakhs of resources available freely

g. **DELNET** : Institution is member of DELNET. DELNET offers across to nearly 1.75 crore records of books, periodicals, articles, thesis and dissertations and other databases. Besides this also provides inter library loan and document delivery services all its member libraries.

10.4.2 Internet (10)

Institute Marks : 10.00

Name of the Internet provider	BSNL and Touches Communication (AIRTEL)
Available band width	105 MBPS
WiFi availability	Yes, The Campus is Wi-Fi enabled with 24 Access Points
Internet access in labs, classrooms, library and offices of all Departments	1) Computer labs are enabled with LAN, and on request basis Internet can be accessed in labs through Ethernet. Registered devices allowed to access Wi-Fi in the building. 2) Library equipped with browsing center with 16 systems having Internet connection
Security arrangements	1) Dedicated Cyberoam firewall used for Ethernet connections 2) Cambium WAP controller application installed for Wi-Fi security protection

Annexure I

(A) PROGRAM OUTCOME (POs)

Engineering Graduates will be able to:

1. **Engineering Knowledge :** Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
2. **Problem Analysis:** Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.
3. **Design/development of solutions:** Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.
4. **Conduct investigations of complex problems:** Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.
5. **Modern tool usage:** Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.
6. **The engineer and society:** Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.
7. **Environment and sustainability:** Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.
8. **Ethics:** Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
9. **Individual and team work:** Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
10. **Communication:** Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.
11. **Project management and finance:** Demonstrate knowledge and understanding of the engineering and management principles and apply these to one’s own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.
12. **Life-long learning:** Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

(B) PROGRAM SPECIFIC OUTCOME (PSOs)

PSO1	Analyze and design analog & digital circuits or systems for a given specification and function.
PSO2	Implement functional blocks of hardware-software co-designs for signal processing and communication applications

Declaration

The head of the institution needs to make a declaration as per the format given -

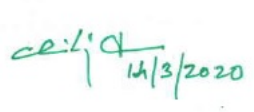
- I undertake that, the institution is well aware about the provisions in the NBA's accreditation manual concerned for this application, rules, regulations, notifications and NBA expert visit guidelines inforce as on date and the institutes hall fully abide by them.
- It is submitted that information provided in this Self Assessment Report is factually correct.
- I understand and agree that an appropriate disciplinary action against the Institute willbe initiated by the NBA. In case, any false statement/information is observed during pre-visit, visit, postvisit and subsequent to grant of accreditation.

Head of the Institute

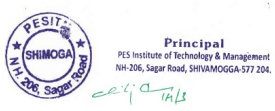
Name : Dr. Chaitanya Kumar M V

Designation : Principal, PES Institute of Technology & Management, Shivamogga

Signature :



Seal of The Institution :



Place : Shivamogga

Date : 14-03-2020 13:29:21