ACS College of Engineering

Electronics & Communication Engg.

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Part A: Institutional Information

1 Name and Address of the Institution ACS College of Engineering, ACS College of Engineering, No. 207, Kambi Pura, Mysore Road, Bangalore -560074. 2 Name and Address of Affiliating University Visvesvaraya Technological University Belgaum Karn 3 Year of establishment of the Institution: 2009 4 Type of the Institution: University Autonomous Deemed University Affiliated Government Aided 5 Ownership Status: Trust Central Government State Government Society

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

Government Aided

Self financing

Name of Institutions	Year of Establishment	Programs of Study	Location
Rajarajeswari Medical College & Hospital	2005	MBBS,PG	BENGALURU
Rajarajeshwari Dental College and Hospital	1992	BDS,PG	BENGALURU
Rajarajeswari College of Engineering	2006	UG,PG	BENGALURU
Rajarajeswari College & Schoolof Nursing	2004	NURSING	BENGALURU
Rajarajeswari College of Physiotheraphy	2006	Physiotherapy	BENGALURU

Section 25 Company

Any Other(Please Specify)

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	То	Program for consideration	Program for Duration
B.E	UG	2009	2009	60	Yes	60	Granted accreditation for 3 years for the period (specify period)		2022	Yes	4

Sanctioned Intake for Last Five Years for the B.E					
Academic Year	Sanctioned Intake				
2022-23	60				
2021-22	60				
2020-21	60				
2019-20	120				
2018-19	120				
2017-18	60				

8 Programs to be considered for Accreditation vide this application:

S No	Level	Discipline	Program
1	Under Graduate	Engineering & Technology	Electronics & Communication Engg.
2	Under Graduate	Engineering & Technology	Aerospace Engineering

9 Total number of employees in the institution:

A. Regular* Employees (Faculty and Staff):

Items		2022-23		2021-22		0-21
		MAX	MIN	MAX	MIN	MAX
Faculty in Engineering (Male)	72	72	79	79	68	68
Faculty in Engineering (Female)	33	33	54	54	48	48
Faculty in Maths, Science & Humanities (Male)	14	14	16	16	16	16
Faculty in Maths, Science & Humanities (FeMale)	8	8	10	10	11	11
Non-teaching staff (Male)	58	58	58	58	48	48
Non-teaching staff (FeMale)	67	67	67	67	65	65

B. Contractual* Employees (Faculty and Staff):

Items		2-23	2021-22		2020-21	
		MAX	MIN	MAX	MIN	MAX
Faculty in Engineering (Male)	0	0	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
МВА	Shift1	Shift2
MCA	Shift1	Shift2

Engineering and Technology- UG Shift-1

Items	2022-23	2021-22	2020-21
Total no. of Boys	658	799	600
Total no. of Girls	782	476	674
Total	1440	1275	1274

Engineering and Technology- PG Shift-1

Items	2022-23	2021-22	2020-21
Total no. of Boys	3	15	11
Total no. of Girls	1	4	15
Total	4	19	26

11 Vision of the Institution:

Engineering the future of the nation by transforming the students to be technically skilled managers, innovative leaders and environmentally receptive citizens.

12 Mission of the Institution:

To implement holistic approach in curriculum and pedagogy through Industry Integrated Interactions to meet the needs of Global Engineering Environment. To develop students with knowledge, attitude and skill of employability, entrepreneurship (Be Job creators than job seekers), research potential and professionally ethical citizens.

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

Head of the Institution				
Name Dr.M.S.MURALI				
Designation PRINCIPAL				
Mobile No.	9900028024			
Email ID	principal@acsce.edu.in			

NBA Coordinator, If Designated

Name	DR T SENTHIL KUMARAN
Designation	PROFESSOR AND DEAN
Mobile No.	8884000900
Email ID	senthilkumaran@acsce.edu.in

PART B: Criteria Summary

Critera No.	Criteria	Total Marks	Institute Marks
1	VISION, MISSION AND PROGRAM EDUCATIONAL OBJECTIVES	60	60.00
2	PROGRAM CURRICULUM AND TEACHING - LEARNING PROCESSES	120	120.00
3	COURSE OUTCOMES AND PROGRAM OUTCOMES	120	120.00
4	STUDENTS' PERFORMANCE	150	113.96
5	FACULTY INFORMATION AND CONTRIBUTIONS	200	172.56
6	FACILITIES AND TECHNICAL SUPPORT	80	80.00
7	CONTINUOUS IMPROVEMENT	50	50.00
8	FIRST YEAR ACADEMICS	50	45.75
9	STUDENT SUPPORT SYSTEMS	50	50.00
10	GOVERNANCE, INSTITUTIONAL SUPPORT AND FINANCIAL RESOURCES	120	120.00
	Total	1000	933

Part B

1 VISION, MISSION AND PROGRAM EDUCATIONAL OBJECTIVES (60)

Total Marks 60.00

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

Total Marks 5.00 Institute Marks : 5.00

Vision of the institute		Engineering the future of the nation by transforming the students to be technically skilled managers, innovative leaders and environmentally receptive citizens.		
Mission of the institute	meet the no	To implement holistic approach in curriculum and pedagogy through Industry Integrated Interactions to meet the needs of Global Engineering Environment. To develop students with knowledge, attitude and skill of employability, entrepreneurship (Be Job creators than job seekers), research potential and professionally ethical citizens.		
Vision of the Department		Impart quality education to create world class technocrats and entrepreneurs with new ideas and innovations to meet industry expectations through advanced research.		
	Mission No.	Mission Statements		
Mission of the Department	M1	Develop and deliver Quality academic programmes in Emerging and innovative field of Engineering to empower the students to meet Industry Standards.		
	M2	To build student community with high ethical standards to undertake R&D in thrust areas of national and international needs.		
	M3	To create Centre of Excellence by establishing the incubation centres to meet global research challenges		

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

Total Marks 5.00

Institute Marks: 5.00

PEO No.	Program Educational Objectives Statements
PEO1	To develop the ability among students to understand the concept of core electronics subjects that will facilitate understanding of new technology.
PEO2	To embed a strong foundation in the engineering fundamentals to solve, analyze and design real time engineering products.
PEO3	To give exposures to emerging edge technologies, adequate training and opportunities to work as team on multidisciplinary projects with effective communication skills and leadership qualities.

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

Total Marks 10.00

Institute Marks: 10.00

The Vision, Mission and PEOs are published at:

- 1. Institute website https://www.acsce.edu.in/department/electronics-and-communication-engineering/
- 2. Course file
- 3. Alumni Meeting
- 4. Displayed in HOD's room, Faculty Room and Seminar Hall
- 5. Displayed on notice boards of laboratories, classrooms and corridors.
- 6. Departmental Newsletter

Process of dissemination among stakeholders

The institution and departments Vision, Mission, and Program Educational Objectives (PEOs) are communicated to new faculty and students during the introductory meeting and Faculty were informed about these matters through regular meetings and discussions in the Departmental Advisory Board (DAB)/ Program Assessment Committee (PAC) meetings. The faculty incorporates the Vision, Mission, and PEOs into their course files and shares them with their students. Information brochures, departmental Newsletter, and parent-teacher meetings are utilized to inform employers, parents, and alumni about these essential elements. Additionally, Faculty Development Programs (FDP) is organized to focus on Outcome-Based Education (OBE) as needed.

The Vision and Mission Statements are published

Particulars	Internal Stake Holders	External Stake Holders
Departmental Newsletter	√	
College Website (www.acsce.edu.in (file:///C:/Users/Master/Desktop/16-8- 16/www.acsce.edu.in))	✓	✓
Department website (https://www.acsce.edu.in/department/electronics- and-communication-engineering/)	√	√
College Brochure	✓	
Progress Report	✓	

Particulars Internal Stake Holders Faculty rooms Class rooms	External
·	Stake Holders
Class rooms	√
	√
Departmental notice boards	√
Laboratories	√
Departmental	√
Seminar Hall	√

The Vision and Mission Statements are disseminated

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

Total Marks 25.00

Institute Marks: 25.00

1.4.1 Description of process involved in defining Vision and Mission of the Department:

The vision and mission statements of the department are established through a consultation process by involving the stakeholders (internal and external) of the department. The inputs from Alumni Interaction, Departmental Advisory Board (DAB) / Program Assessment Committee (PAC) and department Strengths & Statistics are used in framing the Vision & Mission Statements of the dept. aligned with the institutional Vision & Mission Statements.

- Step 1: During the first stage, gather input from stakeholders and with the department head, as well as the Departmental Advisory Board (DAB) / Program Assessment Committee (PAC) meeting, to establish the vision and mission statements that are consistent with those of the institute.
- Step 2: The vision and mission statements, defined as stated in step-1 are shared with faculty, students, alumni, management and IQAC for the feedback.
- Step 3: The feedback obtained from stakeholders in step 2 is discussed among DAB / PAC members before being finalized.
- Step 4: The new vision and mission statements (outcome of the DAB / PAC meeting) are placed before IQAC for recommendation.
- Step 5: Once the vision and mission statements are recommended by the IQAC they are published in the web site and other places stated in 1.3. Any comments by the Internal / External stakeholders are noted and considered for next cycle of revising the vision and mission statements.

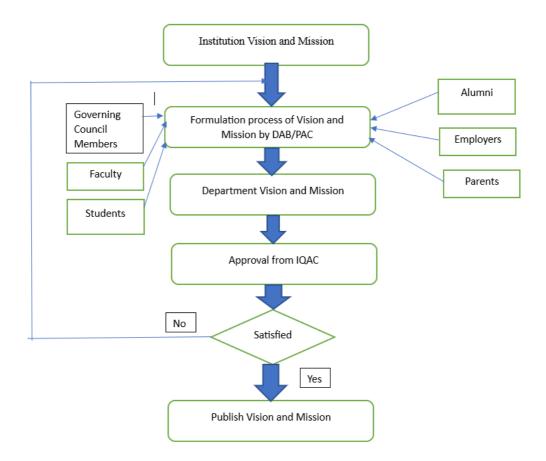


Fig.1.4.1 Process to establish department vision & mission

1.4.2 Description of process involved in defining PEOs of the Department:

The Program Educational Objectives are established through a consultation process involving the core constituents such as students, alumni, industries, and faculty members.

The PEOs are established through the following steps:

Step1: The PEOs are initially defined considering the following:

- Vision, mission statements of the institute/department program outcomes
- Feedback from alumni and industry requirement
- Expectations of parents/aspirants of the program.
- The placement record of the graduates from the Training and Placement cell and higher education records
- Curriculum analysis

Step 2: The defined PEOs are discussed among faculty, current students, alumni, parents, and DAB / PAC members. The feedback received from all stakeholders is carefully considered to refine the PEOs.

Step 3: The PEOs from step 2 are put before IQAC for discussion and feedback. Once the IQAC approve the PEOs they will be published.

Step 4: Attainment of the stated PEOs is checked through surveying views of employers of Our students and alumni. Their views are considered while modifying PEOs in next cycle.

1.4.3

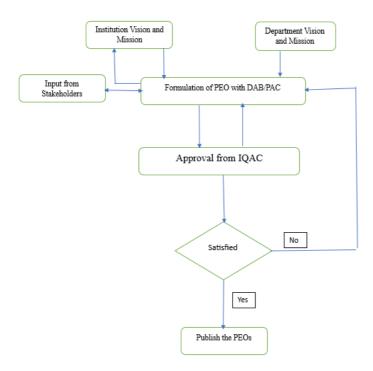


Figure 1.4.2: PEO Definition & Assessment Process

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1.4.3 Administrative system helps in ensuring the achievement of PEOs,POs,PSOs

The following administrative systems are functioning in the department to ensure the attainment of POS, PSOs and PEOS:

Program Assessment Committee (PAC)

Department Advisory Board (DAB)

Program Assessment Committee (PAC)

PAC consists of faculty representatives and is chaired by the Program Coordinator. The functions of PAC include:

- Monitors the attainment of COs, POs, PSOs and PEOs.
- Motivates the faculty and students towards attending workshops, developing projects, working models, paper publications and research. Interact with students, faculty, Program Coordinator and outside/community agencies (through their representation) in facilitating program educational objectives
- PAC meets at least once in 6 months to review the program and submits periodic report to Department Advisory Board to make necessary changes in the
 program to improve effectiveness.

SI.No.	Name	Designation
1	Dr. M.S. Murali	Principal
2	Dr. Bharathi Gururaj	Assoc.Prof & HOD
3	Dr. A.M. Prasanna Kumar	Professor
4	Dr. Prajith Prakash Nair	Associate Professor
5	Dr. Mathivanan M	Associate Professor

Department Advisory Board (DAB):

DAB consists of the Head of the Department, Program Co-ordinators, and the representatives of some key stake holders.

DAB is chaired by Head of the department, who receives the input from the Program Assessment Committee (PAC) and monitors the progress of the program. DAB analyze present issues and future trends and opportunities related to the program periodically. The DAB develops and recommends new or revised program goals and objectives.

SI.No.	Name	Designation	Role
1	Dr. Bharathi Gururaj	Assoc.Prof & HOD	Chairperson
2	Dr. A.M. Prasanna Kumar	Professor	Key Resource Person
3	Dr. Prajith Prakash Nair	Associate Professor	NBA Coordinator

4	Mr. Nagesh H B	Assistant Professor	Member
5	Mrs. Vijaya Dalawai	Assistant Professor	Member
6	Mr. Srinivas	Parent	Member
7	Ms. Swathi S	Alumni Student	Member
8	Mr. Satyanarayan	Employer	Member
9	Ms. Brunda	III Year Student	Member

 $\textbf{1.5 Establish consistency of PEOs with Mission of the Department} \ (15)$

Total Marks 15.00

Institute Marks: 15.00

PEO Statements	M1	M2	М3	Justification
				(Mission 1) strongly support to achieve PEO1, as objective is to develop the ability among students and understand concepts of core graduate electronics which can be accomplished, if graduates are facilitates understanding of new technology.
				(Mission 2) moderately support PEO1 to embed a strong foundation in Engineering to meet global research challenges.
PEO1	н	М	L	(Mission 3) slightly support in achieving PEO1 as global concern. Overall, a department mission reasonably supports PEO1.
				Quality Academic programmes (Mission 1) highly supports for overall development of graduates and to strengthen their technical skills & interest.
				With high ethical standards to undertake R&D (Mission 2) strongly helps in fulfilling needs of industries and society.
PEO2	н	н	М	To meet global research challenges (Mission 3) moderately supports in industrial growth. Overall, a department mission highly supports PEO2.
				Mission 1 and 2 moderately support to achieve PEO3 with respect effective communication skill and leadership qualities.
PEO3	М	М	н	Mission 3 highly support to achieve PEO3 for establishing the incubation centers to meet global research challenges.

H-High M-Medium L-Low

PEO Statements	M1	M2	М3
To develop the ability among students to understand the concept of core electronics subjects that will facilitate understanding of new technology.	3 🗸	2 🗸	2 🗸
To embed a strong foundation in the engineering fundamentals to solve, analyze and design real time engineering products.	3 🗸	3 🕶	2 🗸
To give exposures to emerging edge technologies, adequate training and opportunities to work as team on multidisciplinary projects with effective communication skills and leadership qualities.	2 🗸	2 🗸	3 🗸

2 PROGRAM CURRICULUM AND TEACHING - LEARNING PROCESSES (120)

Total Marks 120.00

2.1 Program Curriculum (20) Total Marks 20.00

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: 10.00

ACS College of Engineering is an affiliated institution under the Visvesvaraya Technological University, Belagavi, Karnataka, and recognized by All India Council for Technical Education (AICTE), New Delhi. The VTU follows the AICTE model curriculum in designing a university curriculum that complies with AICTE norms. The Department of Electronics and Communication Engineering (ECE) follows the curriculum designed by the university. In general, the curriculum comprises of Humanities and Basic Science, Engineering Science, Professional courses and their distribution as Core and Elective courses with the specified breadth and depth of learning, Open Electives, Major and Minor Project Work, Internship and Technical seminar. Courses are mapped with twelve Program Outcomes (POs) and gaps are identified. The curriculum is formulated and reviewed once in 4 years or sometimes even earlier as demanded through the Board of Studies (BoS) of VTU comprising a chairman, senior professors of ECE discipline and industry representatives. The analysis is done for attaining the PO and Program Specific Outcomes (PSO) through the curriculum. The suggestions collected are shared with the BoS of the university during the meetings as and when required based on Course Outcome CO / PO / PSO attainment and gap analysis. With the implementation of National Education Policy-2020 by the VTU effective from the academic year 2021-22, the department of ECE, ACS is geared up to provide a new curricular and pedagogical structure, holistic, multidisciplinary education for realizing the aspiration articulated in NEP-2020 to nurture young minds.

Process used to identify extent of compliance of the University Curriculum for attaining the Program Outcomes and Program Specific Outcomes

Department of Electronics & Communication Engineering is following revised scheme of the choice-based credit system (CBCS). All course outcomes are defined by the VTU, and these are mapped to Program Outcomes which is prescribe by NBA. The Program specific Outcomes are defined by the department.

The process used to identify the extent of compliance of the university curriculum for attaining the PSOs is as follows:

- The Head of Department and Faculty members have a couple of meeting 's to draft the PSOs statements.
- The final statements of PSOs are framed by HOD with Department Advisory Board (DAB) members.
- Finalized PSO statements at departmental level, it is communicated to all the stakeholders. The PSOs are revised whenever University /institution vision, Mission, and PEOs are revised.

The PSOs are revised whenever University /institution vision, Mission, and PEOs are revised.

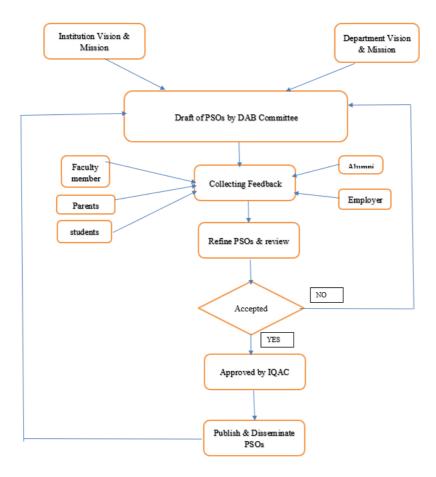


Figure 2.1.1.1: Process of Defining PSOs

Table 2.1.1.1 Program Outcomes defined by NBA

PO1	Engineering Knowledge	Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
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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 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 modeling 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.
P07	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.

Table 2.1.1.2: PSO of Electronics and Communication Engineering Program

PSO1	To analyze ,design and develop solutions by applying fundamental concepts of Electronics and Communication Engineering.
PSO2	Design and implement the products using cutting edge technologies in hardware and Software, to demonstrate leadership qualities among students, to promote research and development activities for betterment of organization and society.

TABLE 2.1.1.3 STRUCTUE OF VTU CURRICULUM

SI.No.	Course code	Course Title	Lecture(L)	Tutorial (T)	Practical(P)		Theory Credits	Practical Credits	Total
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		TOLIVIL	STER(PHYSICS	ortoor /				
18MAT11	CALCULUS AND LINEAR ALEGBRA	3	2	-	3	4	-	4
18PHY12	ENGINEERING PHYSICS	3	2	-	3	4	-	4
18ELE13	BASIC ELECTRICAL ENGINEERING	2	2	-	2	3	-	3
18CIV14	ELEMENTS OF CIVIL ENGINEERING AND MECHANICS	2	2	-	2	3	-	3
18EGDL15	ENGINEERING GRAPHICS	2	-	-	2	3	-	3
18PHYL16	ENGINEERING PHYSICS LABORATORY	-	-	2	-	-	1	1
18ELE17	BASIC ELECTRICAL ENGINEERING LABORATORY	-	-	2	-	-	1	1
18EGH18	TECHNICAL ENGLISH-I	-	2	-	-	1	-	1
		I SEMES	TER(CHEMISTR	Y GROUP)				
18MAT11	CALCULUS AND LINEAR ALEGBRA	3	2	-	3	4	-	4
18CHE12	ENGINEERING CHEMISTRY	3	2	-	3	4	-	4
18CPS13	C PROGRAMMING FOR PROBLEM SOLVING	2	2	-	2	3	-	3
18ELN14	BASIC ELECTRONICS	2	2	-	2	3	-	3
18ME15	ELEMENTS OF MECHANICAL ENGINEERING	2	2	-	2	3	-	3
18CHEL16	ENGINEERING CHEMISTRY LABORATORY	-	-	2	-	-	1	1
18CPL17	C PROGRAMMING LABORATORY	-	-	2	-	-	1	1
18EGH18	TECHNICAL ENGLISH-I	-	2	-	-	1	-	1
		II SEME	STER(PHYSICS	GROUP)				
18MAT21	ADVANCED CALCULUS AND NUMERICAL METHODS	3	2	-	3	4	-	4
18PHY22	ENGINEERING PHYSICS	3	2	-	3	4	-	4
18ELE23	BASIC ELECTRICAL ENGINEERING	2	2	-	2	3	-	3
18CIV24	ELEMENTS OF CIVIL ENGINEERING AND MECHANICS	2	2	-	2	3	-	3
18EGDL25	ENGINEERING GRAPHICS	2	-	-	2	3	-	3
18PHYL26	ENGINEERING PHYSICS LABORATORY	-	-	2	-	-	1	1
18ELE27	BASIC ELECTRICAL ENGINEERING LABORATORY	-	-	2	-	-	1	1
18EGH28	TECHNICAL ENGLISH-II	-	2	-	-	1	-	1
	18PHY12 18ELE13 18CIV14 18EGDL15 18PHYL16 18ELE17 18EGH18 18MAT11 18CHE12 18CPS13 18ELN14 18ME15 18CHEL16 18CPL17 18EGH18 18HAT21 18PHY22 18EGDL25 18PHYL26 18ELE27	18PHY12 ENGINEERING PHYSICS 18ELE13 BASIC ELECTRICAL ENGINEERING 18CIV14 ELEMENTS OF CIVIL ENGINEERING AND MECHANICS 18EGDL15 ENGINEERING PHYSICS LABORATORY 18PHYL16 ENGINEERING PHYSICS LABORATORY 18ELE17 BASIC ELECTRICAL ENGINEERING LABORATORY 18EGH18 TECHNICAL ENGLISH-I 18CHE12 ENGINEERING CHEMISTRY 18CPS13 C PROGRAMMING FOR PROBLEM SOLVING 18ELN14 BASIC ELECTRONICS 18ME15 ELEMENTS OF MECHANICAL ENGINEERING CHEMISTRY 18CHEL16 ENGINEERING 18CHEL16 ENGINEERING 18CPL17 C PROGRAMMING LABORATORY 18CPL17 C PROGRAMMING LABORATORY 18EGH18 TECHNICAL ENGLISH-I 18MAT21 ADVANCED CALCULUS AND NUMERICAL ENGINEERING 18HELE23 BASIC ELECTRICAL ENGINEERING 18ELE23 BASIC ELECTRICAL ENGINEERING 18ELE23 ENGINEERING PHYSICS 18ELE23 ENGINEERING PHYSICS 18ELE24 ENGINEERING PHYSICS 18ELE25 ENGINEERING PHYSICS 18PHYL26 ENGINEERING PHYSICS LABORATORY 18ELE27 BASIC ELECTRICAL ENGINEERING AND MECHANICS 18ELE27 ENGINEERING PHYSICS LABORATORY	18PHY12	SMINT ALEGBRA 3 2	18PHY112	18PHY12	18PHY12	18PHY12

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25	18MAT21	CALCULUS AND LINEAR ALEGBRA	3	2	-	3	4	-	4
26	18CHE22	ENGINEERING CHEMISTRY	3	2	-	3	4	-	4
27	18CPS23	C PROGRAMMING FOR PROBLEM SOLVING	2	2	-	2	3	-	3
28	18ELN24	BASIC ELECTRONICS	2	2	-	2	3	-	3
29	18ME25	ELEMENTS OF MECHANICAL ENGINEERING	2	2	-	2	3	-	3
30	18CHEL26	ENGINEERING CHEMISTRY LABORATORY	-	-	2	-	-	1	1
31	18CPL27	C PROGRAMMING LABORATORY	-	-	2	-	-	1	1
32	18EGH28	TECHNICAL ENGLISH-II	-	2	-	-	1	-	1
				III SEMESTER					
33	18MAT13	TRANSFORM CALCULUS, FOURIER SERIES & NUMERICAL TECHNIQUES	2	2	-	2	3	-	3
34	18EC32	NETWORK THEORY	3	2	-	3	4	-	4
35	18EC33	ELECTRONICS DEVICES	3	-	-	3	3	-	3
36	18EC34	DIGITAL SYSTEM DESIGN	3	-	-	3	3	-	3
37	18EC35	COMPUTER ORGANIZATION AND ARCHITECTURE	3	-	-	3	3	-	3
38	18EC36	POWER ELECTRONICS AND INSTRUMENTATION	3	-	-	3	3	-	3
39	18EC37	ELECTROINCS AND INSTRUMENTATION LABORATORY	-	2	2	-	-	2	2
40	18EC38	DIGITAL SYSTEM DESIGN LABORATORY	-	2	2	-	-	2	2
41	18CPC39/49	CONSTITUTION OF INDIA, PROFESSIONAL ETHICS AND CYBER LAW	1	-	-	1	1	-	1
42	18MATDIP31	ADDITIONAL MATHEMATICS-I	2	1	-	2	0	-	0
43	18MAT41	COMPLEX ANALYSIS, PROBABILITY AND STATISTICAL METHODS	2	2	-	2	3	-	3
44	18EC42	ANALOG CIRUITS	3	2	-	3	4	-	4
45	18EC43	CONTROL SYSTEM	3	-	-	3	3	-	3
				IV SEMESTER					
46	18EC44	ENGINEERING STATISTICS AND LINEAR ALGEBRA	3	-	-	3	3	-	3
47	18EC45	SIGNALS AND SYSTEMS	3	-	-	3	3	-	3
48	18EC46	MICROCONTROLLER	3	-	-	3	3	-	3
49	18EC47	MICROCONTROLLER LABORATORY	_	2	2	_	_	2	2

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50	18ECL48	ANALOG CIRCUITS LABORATORY	-	2	2	-	-	2	2
51	18MATDIP41	ADDITIONAL MATHEMATICS-II	2	1	-	2	0	-	0
				V SEMESTER					
52	18ES51	TECHNOLOGICAL INNOVATION MANAGEMENT AND ENTERPRENEURSHIP	3	-	-	3	3	-	3
53	18EC52	DIGITAL SIGNAL PROCESSING	3	2	-	3	4	-	4
54	18EC53	PRINCIPLES OF COMMUNICATION SYSTEMS	3	2	-	3	4	-	4
55	18EC54	INFORMATION THEORY AND CODING	3	-	-	3	3	-	3
56	18EC55	ELECTROMAGNETIC WAVES	3	-	-	3	3	-	3
57	18EC56	VERILOG HDL	3	-	-	3	3	-	3
58	18ECL57	DIGITAL SIGNAL PROCESSING LABORATORY	-	2	2	-	-	2	2
59	18ECL58	HDL LABORATORY	-	2	2	-	-	2	2
60	18CIV59	ENVIRONMENTAL STUDIES	1	-	-	1	1	-	1
				VI SEMESTER					
61	18EC61	DIGITAL COMMUNICATION	3	2	-	3	4	-	4
62	18EC62	EMBEDDED SYSTES	3	2	-	3	4	-	4
63	18EC63	MICROWAVES & ANTENNAS	3	2	-	3	4	-	4
64	18EC642	ARTIFICAL NEUTRAL NETWORKS	3	-	-	3	3	-	3
65	18CV653	OCCUPATIONAL HEALTH AND SAFETY	3	-	-	3	3	-	3
68	18ECL66	EMBEDDED SYSTEM LAB		3	-	3	3	-	3
69	18ECL67	COMMUNICATION LAB		3	-	3	3	-	3
70	18ECMP68	MINI-PROJECT		3	-	3	3	-	3
72	18ECI85	INTERNSHIP	-	2	2	-	-	2	2
				VII SEMESTER					
73	18EC71	COMPUTER NETWORKS	3	-	-	3	3	-	3
74	18EC72	VLSI DESIGN	3	-	-	3	3	-	3
75	18EC733	DIGITAL IMAGE PROCESSING	3	-	-	3	3	-	3
83	18EC745	MACHINE LEARNING	3	-	-	3	3	-	3
84	18CV753	ENVIRONMENTAL SCIENCE AND PROTECTION	3	-	-	3	3	-	3

85	18EC76	COMPUTER NETWORKS LAB	3	-	-	3	3	-	3
86	18ECL77	VLSI LAB	3	-	-	3	3	-	3
87	18ECMP68	PROJECT PHASE-1	-	2	2	-	0	0	0
88	18ECI85	INTERNSHIP	-	2	2	-	-	2	2
				VIII SEMESTER	1				
89	18EC81	WIRELESS CELLULAR COMMUNICATION	3	-	-	3	3	-	3
90	18EC824	OPTICAL COMMUNICATION NETWORK	3	-	-	3	3	-	3
91	18ECP83	PROJECT PHASE-II	3	-	-	3	3	-	3
92	18ECI85	INTERNSHIP	3	-	-	3	3	-	3
93	18ECS824	TECHNICAL SEMINAR	3	-	-	3	3	-	3

Table 2.1.3

Statistics of VTU syllabus with mapping of PO and PSO

SL	Types of	VTU	Mapped Program	Mapped Program
No.	Courses		outcome	Specific outcome
1	Humanities &Basic Sciences 07	Technical English-I/ II Engineering Physics-4 Engineering Chemistry-4 Calculus and Linear Algebra-4 Advanced Calculus and Numerical Methods-4 Transform Calculus, Fourier Series and Numerical Techniques- 3, Engineering Statistics and Linear algebra-4	PO1,PO2,PO3, PO7,PO10,	PSO1

		Basic Electrical Engineering3C Programming for Problem Solving-3		
	Engineering	Elements of Civil Engineering & Mechanics-3		
	Sciences 06	Basic Electronics-3 Engineering Graphics-3 Elements of Mechanical	PO1,PO2,PO7	PSO1, PSO2
2		Engineering-3		
		Network Theory-4,		
		Electronic Devices-3		
		Digital System Design-3		
		Computer Organization & Architecture-3,		
		Power Electronics and Instrumentation-3		
		Analog Circuits-4		
		Control Systems-3		
		Signals & Systems-3,		
		Microcontroller-3		
		Digital Signal Processing-4	PO1,PO2,PO3, PO4,	PSO1,
		Principles of Communication Systems-4	PO5,PO11,PO 12	PSO2
		Information Theory & Coding-4		
		Electromagnetic Waves-4		
		Verilog HDL-4		
		Digital Communication -4		
3		Embedded Systems-4		
3	Core Subjects 21	Microwaves & Antennas-4		
		Computer networks-4		
		VLSI Design-4		
		Wireless and Cellular Communication-4		
		Professional Elective1 – Artificial Neural networks- 3		
		Professional Elective 2 – Digital Image Processing-3	DO4 DO2 DO2 DO4	
	Electives	Professional Elective 3- Machine Learning - 3	PO1,PO2,PO3, PO4, PO5,PO11	PSO1, PSO2
4	Subjects 05	Professional Elective 4- Optical Communication Networks- 3		

5	Open Elective	Open elective A-3 Open elective B-3	PO1,PO2,PO3, PO4,PO5,PO11	
6	Project Work 01	Project Work Phase 1-1 Project work Phase 2-8	PO1,PO2,PO3,P O4,PO5,PO6, PO7, PO8, PO9, PO10, PO11,PO12	PSO1, PSO2

7	Mandatory Courses 03	(Kannada for Administration) 1	PO6, PO7,P10 PO12	-
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Table 2.1.1.1.4 Extend of Compliance of the University curriculum for attaining the PO and PSO

Course	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO7	PO 8	PO 9	PO1 0	PO1 1	PO1 2	PSO1	PSO
18MAT11	√	√	√	√										
18 CHE 12	√													
18 CPS 13	√	√	√											
18 ELN 14	√	√	√	√	√									
18 ME15	√	√	√	√	√									
18 CHEL 16	√	√	√	√	√			√	√	√	√	1		
18 CPL 17	√	√	√	√	√			√	√	√	√	1		
18EGH18									√	√		1		
18MAT21	√	√	√	√										
18 PHY22	√	√	√	√								√		
18 ELE23	√	√	√	√	√							√		
18 CIV24	√	√	√	√										
18 EGDL25	√	√	√	√										
18 PHYL26	√													
18 ELEL27	√													
18EGH28									√	√		√		
18MAT31	√	√	√	√										
18EC32	√	√	√	√	√								√	√
18EC33	√	√	√	√	√								√	√
18EC34	√	√	√	√	√								√	√
18EC35	√	√	√	√	√								√	√
18EC36	√	√	√	√	√								√	√
18ECL37	√													
18ECL38	√	√	√	√	√			√	√	√	√	1	√	√
18KAK39								√	√	√		1		
18MAT41	√	√	√											
18EC42	√	√	√	√	√							√	√	√
	√	√	√	√	√								√	√
18EC44	√	√	√										√	√
18EC45	√	√	√										√	√
	√	√	√											√
	√	√	√	√	√			√						
	√	√	√	✓	√			√	✓	✓	√ ·	✓	<u>√</u>	√
18 CPC49								√	√	√		√	√	√
	√	√				√		√	√					√
	· ✓	√	√	√										√
	· /	√	√		√							√	<u>√</u>	· ✓
	<i>'</i>	· ✓	√		-							-	· ✓	√
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	√	√	√										√	√
	√	√		√	√			√	√	√	√	✓	√	√
	√	√		√	√						√	√	√	∨
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18EC61	√	√	√										√	√
18EC62	1	√	√	√									1	√
18EC63	√	√	1										√	√
18EC642	√	√	1										1	√
18CV653	√	√	1			1	✓		√				√	√
18ECL66	✓	√	√	√	✓			V	√	√	√	√	√	√
18ECL67	√	√	√	1	√			V	1	1	✓	✓	√	✓
18ECMP68	√	√	1	1									√	√
18EC71	√	√	√	1									√	✓
18EC72	√	√	1	1									√	√
18EC733	✓	√	√	√									√	√
18EC743	✓	√	√										√	√
18ME753	1	√	√			√	✓						1	√
18ECL76	1	√	√	√	√	√				1	✓	√	√	1
18ECP77	✓	√	√	√	✓	√	✓	V	√	✓	√	√	√	√
18EC81	√	√	√										√	1
18EC824	1	√	√										√	1
18ECP83	√	√	√	√	√	√	✓	/	/	✓	√	√	√	1
18ECS84	√	√	√	√	√	√	✓	/	/	√	√	✓	√	√
18ECI85	√	√	1	1	1	√	✓	✓	√	√	√	√	√	√

HUMANITIES and MANAGEMENT: The Stream includes courses in Universal Human Values, Social Connect and Responsibilities, Indian Constitution, Professional ethics, Environmental Sciences, Technological innovation and Management, Entrepreneurial skills.

BASIC SCIENCES: The Stream provides fundamental concepts for all Engineering streams, including Physics, chemistry, and Mathematics.

Basic Engineering Courses: The Stream provides basic knowledge of all Engineering streams. The Courses include Basic Electrical sciences, Elementary of Civil and Mechanical Engineering, Engineering drawing, Programming in C and Basic Electronics.

Professional Core Courses: The core courses include program specific courses of study which includes, Electronic Devices, Digital System Design ,Signals and Systems, Network analysis, Control Systems, Linear Integrated Circuits ,Wireless and Cellular Communication, Analog and Digital Communications and Fundamental courses on HDL and VLSI.

Elective Courses: The Courses will provide an choice for the student to opt the courses. Open Electives choice are also given to students as a interdisciplinary course. Some examples of the courses include Environmental protection, Occupational Health and Safety, Industrial automation, Renewable Energy resource etc.

2.1.2 State the delivery details of the content beyond the syllabus for the attainment of POs and PSOs (10) Institute Marks: 10.00

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

The process used to identify the extend of compliances of university curriculum is through getting the feedback on Gaps from different Stakeholders. It includes.

- 1. Seeking the Input from the Faculties who is handling the course.
- 2. Seeking the input from internal stake holder.
- 3. Seeking the Input from external Stakeholder

Step1: As per the VTU curriculum respective subject (course) faculties map the CO, PO and PSO for the subjects.

Step2: To identify the GAP, Department advisory Committee collects the data from the internal and external stake holders.

Step3: If Gap is identified, inform the gap to the university and at institute level from respective department conduct the seminars, webinars, Workshops to fulfill the gap.

Step4: If Gap is not identified proceed with the existing curriculum.

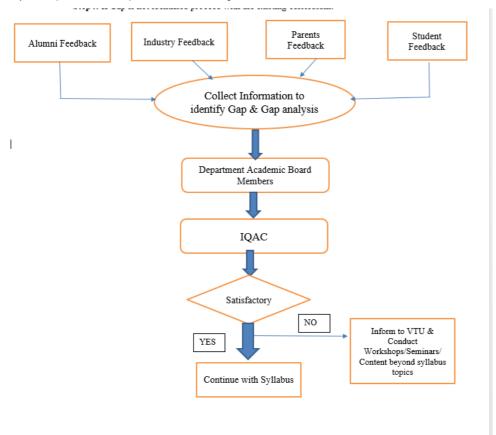


Figure 2.1.2.a: Processes used to identify the curricular gaps to the attainment of the COs/POs

Implementation: Identified content beyond the syllabus (Theory/Lab), if any, is included in lesson plan and covered in classroom by the faculty. If the topic/area is emerge, people from Industry are invited to deliver a lecture.

Gap Identification:

- As per the university curriculum, for some subject's there is no practical lab associated. This is one of the GAP identified by the Department Core Committee along
 with Institutional core committee and inform to the university by mail.
- Physical Education and yoga is one of the GAP identified by the Department core Committee and inform to the university. To fill this Gap at department level conducted Yoga Programs to benefits the students.
- As per the university curriculum, the subject Digital image Processing in VII semester 18EC733 there is no practical lab. This is one of the GAP identified by the
 Department core committee and inform to the university. To fill the GAP at department level conducted workshops
- PAC Committee identified there is no IPR, Python,Labview, courses and informed to VTU. And at department level conduct various seminars and webinars to fill the gap.

List of some curricular gaps for attainment of defined Pos & PSOs

SI. No.	GAP DESCRIPTION
1	To enhance technical knowledge in line with the industry.
2	Exposure to Industry working environments through Industrial Visits, Internships.
3	To choose a career in an interdisciplinary domain
4	Usage of modern tools usage, technologies, Project based learning, Individual and group activities.
5	Soft skill development training, career guidance.
6	Motivation for Higher Studies.

Initiatives taken to address Curricular gaps:

• The Department of ECE has taken the following measures to bridge the identified curricular gaps.

 Technical Talks/Seminars/webinars: Students are kept updated about the advances in technologies from different industrial experts through technical talks/webinars

- Workshops: Students are encouraged to participate in hands -on sessions which will enhance their skills especially in practical domains.
- Industrial Visits: Industrial visits are arranged by colleges to students with an objective of providing students functional opportunity in different sectors like IT,
 Manufacturing and services, finance, and marketing. Industrial visit helps to combine theoretical knowledge with industrial knowledge.
- · Student Development programs: Students are trained in major thrust areas of ECE for around one week to ten days.
- Soft skill training: The institution and department emphasizes on communication skills, personality development through soft skill training programs which plays a major role for placements.
- Guest Lectures: Experts from Industry and academia are invited to deliver lectures on the latest trends and thrust areas in Electronics and Communication Engineering.
- o 2.1.2 State the Delivery details of content beyond syllabus for the attainment of Pos and PSOs. Steps were taken to get identified gaps included in curriculum.

To enrich syllabus contents, the Department of Electronics and Communication Engineering invites experts /trainers from both Industry and academics to update the students with knowledge by sharing newer avenues with the development in Industry . The following tables summarize the action taken to fill the gaps identified and delivery of content beyond the syllabus in Electronics and Communication Engineering.

The gaps identified in the syllabus are discussed with the industry experts, Academic advisors and suitable contents are delivered to students. This will improve the students to expose to newer areas of the branch and they can update their knowledge inline with the industrial requirements.

As per the University ,whenever there is change in the syllabus ,the deputed faculty from the college will attend the meeting with the University members.

2021-22

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S.No	Gap	Action Taken	Date- Month-Year	Resource Person with Designation	% of students	Relevance to POs, PSOs
1	Modern tool Usage, Engineering and Society, Ethics	Webinar on Embedded System & IOT	06/12/2021	Satish Pantech Solutions Pvt.Ltd	90	P06,P07,P08,PS01,PS02
2	Engineering and Society, Environment and sustainability	Webinar on Industry 4.0 Smart Factories	31/01/2022	Dr. S. V. Sathish, Professor & HOD Mechanical Department, PES University	85	PO6,PO7, PO8,PO9, PO10,PO 11,PO12, PSO1,PSO2
3	Engineering and Society, Ethics	Seminar on Team Building Activities	22/12/2021	Dr. Bharathi Gururaj & Team	75	PO6,PO7,P O8,PO9, PO10,PO12 ,PSO3
4	Modern tool Usage, Engineering and Society, Ethics	Webinar on Hands on LabVIEW & Virtual Instrumentation	31/01/2022	Mr.Vasanth Kumar V, Assistant Manager, VI Solutions	70	P06,P07, P08, PS02,PS 03
5	Modern tool Usage, Engineering and Society, Ethics	Webinar on 5G Key Technologies for Industry 4.0 & Hands-on Using Matlab 5G toolbox OMNET++ & NS3	01/02/2022	Dr. Siddalingappa Birader, Dayananda Sagar Acadamey of Technology & Management	70	P06,P07, P08, PS02,PS 03
6	Engineering and Society,	Webinar on Introduction & Implementation of Industry 4.0	01/02/2022	Mr. Yash N N, Global Tachnical Leader	80	PO6,PO7,P O8,PO9, PO10,PO12 ,PSO3
7	Modern tool Usage, Engineering and Society, Ethics	Webinar on Hands on LabVIEW Based Data Acquisition & Sensor Integration	01/02/2022	Mr. Rajkumar, Senior Application Engineer, VI Solution	90	PO6,PO7, PO8, PSO2,PS O3
8	Modern tool Usage, Engineering and Society, Ethics	Webinar on Industry 4.0,Implementation with IOT & its research challenges	02/02/2022	Dr. Muralidhar Kulkarni, Professor, Department of ECE, NIT	85	PO6,PO7, PO8, PSO2,PS O3
9	Individual and Team work	Webinar on Understanding Computer Vision Case study for depth estimation for Industry 4.0	02/02/2022	Dr. S. Murali, President, Maharaja Institute of Technology	75	PO6,PO7, PO8,PO9, PSO1,PS O2,PSO3
10	Individual and Team work	Webinar on An Overview of Embedded Systems with Industry 4.0	02/02/2022	Mr. Vijay Mahantesh	80	PO6,PO7, PO8,PO9, PSO1,PS O2,PSO3
11	Engineering and Society,	Webinar on Innovative Teaching Learning Method using Augumented reality Technology	03/02/2022	Dr. Rajesh Buktar, Professor, Mechnical Engineering, Sardar Patel College of Engineering	80	PO6,PO7,P O8,PO9, PO10,PO12 ,PSO3
12	Engineering and Society	Webinar on Digital Transformation Technologies Cloud Overview with Industry 4.0	03/02/2022	Mr. Santhosh A Chachadi, Manager, Cloud Operations, SAP LABS India	80	PO6,PO7,P O8,PO9, PO10,PO12 ,PSO3
13	Modern tool Usage, Engineering and Society, Ethics	Webinar on Hands-on LabVIEW Based Control System Design & UI Development	03/02/2022	Mr. Rajkumar, Senior Application Engineer, VI Solution	80	PO6,PO7, PO8, PSO2,PS O3
14	Engineering and Society	Webinar on Implementation of Industry 4.0, Adoption in Various Sectors and Case Studies	04/02/2022	Mr. Vasanth Kumar & Mr. SatyaNarayan, Assitant Manager, VI Solutions	70	PO6,PO7,P O8,PO9, PO10,PO12 ,PSO3
15	Engineering and Society	Webinar on Stress Management, Emotion & Physical Health	04/02/2022	Dr. Shivashankar P Shenoy	85	PO6,PO7,P O8,PO9, PO10,PO12 ,PSO3
16	Engineering and Society	Seminar on Carrer Guidance Program	09/04/2022	Mr. Ramesh P	75	PO6,PO8,P O10,PO12,P O7,PO9,PS O1,PSO2,P SO3
17	Engineering and Society	Industrial Visit on Di-facto Robotics & Automation Pvt Ltd	28/04/2022	Mr. Arun Kumar Singh	80	PO6,PO8,P O10,PO12,P O7,PO9,PS O3
18	Modern tool Usage, Engineering and Society Ethics	Workshop on Microwave Technology	06/05/2022	Mr. RaviKumar, Technilab Instruments	85	P06,P07, P08, PS02,PS 03
19	Modern tool Usage, Engineering and Society, Ethics	Workshop on IOT & its Implementation	09/05/2022	Mr. Kushal, Edgate Technologies	75	P06,P07, P08, PS02,PS 03
20	Engineering and Society, Ethics	Seminar on Career Guidance	10/05/2022	Mr. Chowdary, BE Pratical Solution	90	PO6,PO8,P O10,PO12,P O7,PO9,PS O1,PSO2,P SO3
21	PROJECT MANAGEMENT & FINANCE,INDIVIDUAL AND TEAM WORK	Project Exhibition	29/07/2022	Dr. A M Prasanna Kumar	85	PO6,PO7,P O8,PO9, PO10,PO12 ,PSO3

2020-21

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S.No	Gap	Action Taken	Date-Month- Year	Resource Person with Designation	% of students	Relevance to POs, PSOs
1	Engineering and Society	Webinar on "National Education Policy"	21/09/2020	Shiksha Parv, Ministry of education, New Delhi	85	P06,P07,P 08,P09, P010,P012 ,PS03
2	Engineering and Society	Webinar on "National Education Policy"	22/09/2020	Dr. Manjunath B C, Principal, New Horizon College Of Engineering,Bangalore	75	P06,P07,P 08,P09, P010,P012 ,PS03
3	Engineering and Society	Webinar on Introduction to Industry 4.0 & its Human Application	09/11/2020	Mr.Jagadeesh Maiya, VP & Head engineering APAC, Endurance Group	80	P06,P07,P 08,P09, P010,P012 ,PS03
4	Engineering and Society	Webinar on Opportunities for ECE Students in Pharma & Health Care	11/11/2020	Dr. M A Kumar, Principal Advanced Engineering Group, Infosys	70	P06,P07,P 08,P09, P010,P012 ,PS03
5	Modern tool usage	Webinar on Introduction to Data Validation & Analytics	12/11/2020	Mr. Kalyan B Ram, CEO, Electrono Solution	80	P06,P07,P 08,P09, P010,P012 ,PS03
6	Engineering and Society	Webinar on Recent trends in AR & BR in Manufacturing Industries	14/11/2020	Mr. Sreekanta Aaeadya, Chief experts 4.0, Robert Bostch Engineering	85	P06,P07,P 08,P09, P010,P012 ,PS03
7	Engineering and Society	Webinar on Digital Transformation & its Impact in Industries	23/11/2020	Mr. Yash, Global Technical Marketing Leader, Aruba & HP Enterprise Company	80	P06,P07,P 08,P09, P010,P012 ,PS03
8	Engineering and Society	Webinar on Applications of Industry 4.0 in Education Sector	24/11/2020	Mr. Anish Pandari, Director, Electrono Solutions	80	PO6,PO7,P O8,PO9, PO10,PO12 ,PSO3
9	Engineering and Society, Ethics	Webinar on Introduction to IOT in Manufacturing Industries	26/11/2020	Mr. Lux Rao, Director, NTT Data	80	P06,P07,P 08,P09, P010,P012 ,PS03
10	Engineering and Society	Workshop on 7 Days Soft Skill Programs	26/3/2021	ICT Academy	85	P06,P07,P 08,P09, P010,P012 ,PS03
11	LIFE LONG LEARNING ,Engineering and Society, Ethics	Webinar on Magic of Switch Words & Healing	18/5/2021	Mrs. Deepa Rani Shekar, Founder Director, Transform Life Program	80	P06,P07,P 08,P09, P010,P012 ,PS03
12	Engineering and Society, Ethics	Webinar on Mobility	3/6/2021	Mr. Arpit Chauhan, CEO Erkey Motors 2) Mr. Ashhar Ahmed, Skill Director, Skill Shark	85	PO6,PO7,P O8,PO9, PO10,PO12 ,PSO3
13	Engineering and Society, Ethics	Webinar on 3D Printing Technology	5/6/2021	Dr. Raghaveendra K, Associate Professor, CIIRC, Jyothy Institute of Technology	85	P06,P07,P 08,P09, P010,P012 ,PS03
14	Engineering and Society, Environment and sustainability	Webinar on Campus to Corporate	5/6/2021	Ms. Rajshree Rao, Head of all Innovation Hub & Partnerships,R2 Data labs, Rolls Royce India Pvt. Ltd	75	P06,P08,P O10,P011,P O12,PSO1, PS02,PSO3
15	Engineering and Society	Webinar on Career Planning for Future Engineers	11/5/2021	Mr. Supreeth Y S, Facebook India Ambassador, HackerEarth Ambassador Co Founder & CEO, Tequered Labs	90	PO6,PO7,P O8,PO9, PO10,PO12 ,PSO3
16	Modern tool usage ,Engineering and Society	SDP on Python & Aurdino	03/05/2021	Dr. Senthilkumarn T, Offered by the Spoken Tutorial Project,IIT Bombay	85	PO6,PO7,P O8,PO9, PO10,PO12 ,PSO3

2019-20

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S.No	Gap	Action Taken	Date-Month- Year	Resource Person with Designation	% of students	Relevance to POs, PSOs
1	Engineering and Society, Ethics, Life- Long learning	Traning program On IIC Monthly Traning Program	20/08/2019	Dr.Vinoth,, innovation consultant, pongu ventures	85	PO6,PO7,P O8,PO9, PO10,PO12 ,PSO3
2	Individual and Team work	Seminar On Soft Skill Development	21/08/2019	Prof. Radhika Ramesh Associate dean for acdemics IBS,ICFAI group,Bangalore	75	PO6,PO7,P O8,PO9, PO10,PO12 ,PSO3
3	Engineering and Society	Technical Talk on VLSI Technology	24/08/2019	Mr K G Managond , senior physical design engineer ALTRAN technologies bangalore	80	PO6,PO7,P O8,PO9 PO10,PO12 ,PSO3
4	Engineering and Society, Ethics, Life- Long learning	Training Program on IIC	11/09/2019	Dr. Sheetal, innovation management consultant	70	PO6,PO7, PO8, PSO2,PS O3
5	Engineering and Society, Ethics	Event on Graduation Day	14/09/2019	Sri S. Theertha malai, former Director of DRDO,chennai	70	PO6,PO7,P O8,PO9, PO10,PO12 ,PSO3
6	Engineering and Society Ethics	IBS on Campus to Corporate	13/09/2019	Sandip Ghorai, Chief manager-karnataka, IBS school	80	PO6,PO7,P O8,PO9, PO10,PO12 ,PSO3
7	Engineering and Society, Ethics, Life- Long learning	CTDS on Mobile Applications	1/10/2019	Mr. BertrandRussel,Founder & director, X-value technologies pvt. Ltd	90	PO6,PO7,P O8,PO9, PO10,PO12 ,PSO3
8	Engineering and Society	Technical Seminar on Al & Application in Modern Industries	3/10/2019	Mr.Mohan, Technical Head, Digishark technologies,	85	PO6,PO7,P O8,PO9, PO10,PO12 ,PSO3
9	Engineering and Society	Industrial Visit on DiFACTO Robotics and Automation	14/10/2019	Mr. Arun Kumar Singh	75	PO6,PO7,P O8,PO9, PO10,PO12 ,PSO3
10	Engineering and Society, Ethics, Life- Long learning	Training Program on IIC	15/10/2019	Dr.Vinoth,, innovation consultant, pongu ventures	80	PO6,PO7, PO8, PSO2,PS O3
11	Engineering and Society	Internal Hackathon for Smart India Hackathon 2020	10/1/2020	Dr .vinoth S, CEO, Pongu ventures	80	P06,P07,P 08,P09, P010,P012 ,PS03
12	Engineering and Society, Ethics	Seminar FDP on Being the Best Teacher	24/1/2020	Mr .Shrinivas V, counselor & mentor	80	PO6,PO7,P O8,PO9, PO10,PO12 ,PSO3
13	Engineering and Society	Technical talk on Microsoft dynamics & Allied technologies on CTDS	12/2/2020	Mr. Rajashekar data roy,VP& Global head,sonata software	80	PO6,PO7,P 08,PO9, PO10,PO12 ,PSO3
14	Modern Tool USage	Events planned, Internship & Innovation Lab	10/2/2020	Dr. H B Bhuvaneswari	70	PO6,PO7, PO8, PSO2,PS O3
15	Engineering and Society, Ethics	Technical Talk on Application of Electronics in Automobiles Industry	20/2/2020	Mr. Vidyashankar MN & Mr Karthik athreya	85	PO6,PO7,P 08,PO9, PO10,PO12 ,PSO3
16	Engineering and Society, Ethics	Project Exhibitions on Jnana Vigna Tantragnana Mela	19/2/2020	Dr. Nirmalanandanatha Mahaswamiji	85	PO6,PO7,P O8,PO9, PO10,PO12 ,PSO3
17	Engineering and Society, Ethics	Technical Seminar on Innovation & Startup Culture in HEL's	26/2/2020	Dr. Dipan sahu,MHRD "innovation cell, AICTE,New Delhi.	85	PO6,PO7,P O8,PO9, PO10,PO12 ,PSO3
18	Engineering and Society, Ethics	FDP for RRGI &Staff members on Innovation & Entrepreneurship	26/2/2020	Mr. Elangovan	75	PO6,PO7,P O8,PO9, PO10,PO12 ,PSO3
19	Engineering and Society, Ethics	Event on Yoga Ladies	29/2/2020	Dr. H. B. Bhuvaneswari	85	PO6,PO7,P O8,PO9, PO10,PO12 ,PSO3
20	Engineering and Society, Ethics	Technical Seminar on IOT & Embedded systems	5/3/2020	Mr. Rakesh patil	75	PO6,PO7,P O8,PO9, PO10,PO12 ,PSO3
21	Engineering and Society, Ethics	Event on International Women's day	10/3/2020	Dr . B. Susheelamma	80	PO6,PO7,P O8,PO9, PO10,PO12 ,PSO3
22	Engineering and Society, Ethics	Webinar 1	18/5/2020	Dr.Subhash Kulkarni	80	PO6,PO7,P O8,PO9, PO10,PO12 ,PSO3
23	Engineering and Society, Ethics	Webinar 2	19/5/2020	Mr.Basawaraj patil	80	PO6,PO7,P O8,PO9, PO10,PO12 ,PSO3
24	Engineering and Society	5 Days Spoken Tutorial on Ardiuno	20/5/2020	Dr.Mathivanan	75	PO6,PO7,P O8,PO9, PO10,PO12 ,PSO3

2.2 Teaching - Learning Processes (100)

Total Marks 100.00

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

Institute Marks : 25.00

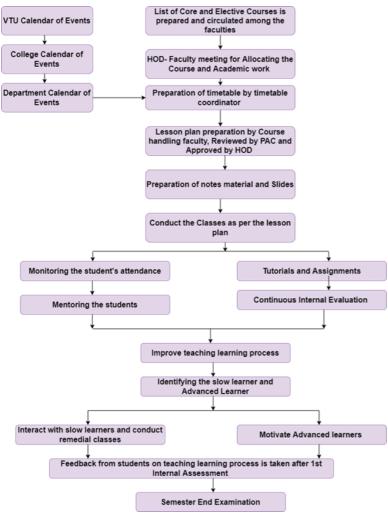


Fig 2.2.1 Process followed for Teaching and Learning Process

To strengthen the teaching-learning process, following initiatives have been taken:

A. Adherence to Academic Calendar

a. Preparation of academic action plans

B. Pedagogical Initiatives - Content Delivery (method of instruction)

- a. Lectures
- b. Presentation
- c. Course Handouts
- d. Project Based Learning

C. Methodologies to support weak students and encourage bright Students

- a. Mentoring System
- b. Identification of Weak Students / Fast Learners
- c. Action Taken
- D. Quality of Class Room Teaching
- E. Conduct of Experiments
- F. Continuous Assessment in the laboratory
- G. Student Feedback and action taken

A. Adherence to Academic calendar

The Institution prepares Calendar of Events based on VTU calender of events guidelines that includes the General holidays, Internal assessment dates as it has to be common to all for entire college, will be displayed on all notice boards. According to Institution calender of Events, department academic calendar is prepared by the coordinator which defines the schedule for various activities such as:

Print

- Commencement and Closure of Classes
- List of Holidays (as announced by Karnataka State)
- Internal Assessment (IA) Test Schedule
- Project Presentation
- Cultural / Sports events, etc.
- Final Internal Lab Assessment /Test
- Theory Examination
- Practical Examination

Based on the information listed above, Time table Coordinator prepares the Timetable for each semester before the Commencement of semester, according to the Course credits each Faculty members estimate the number of classes available during the semester and appropriately prepare the lesson plan.

In case of Laboratories ,the conduction of experiments must be planned by the faculty member.

	l Sem B. E. / B. Tech. / B. Arch./B.Plan	1 sem M.Tech./MBA /MCA/M.Arch.	III, V & VII Sem B. E. /B. Tech./B.Plan/ B.Arch & IX Sem B. Arch.	III & V Sem MCA	III Sem MBA	III Sem M. Tech.	III Sem M. Arch.
of ODD Semester			01.09.2020	01.09.2020	01.09.2020	01.09.2020	01.09.202
Last Working day of ODD Semester			16.01.2021	16.01.2021	16.01.2021	16.01.2021	16.01.2021
Practical Examinations	Will be announced later	Will be announced later	21.01.2021 To 02.02.2021	21.01.2021 To 27.01.2021		21.01.2021 To 27.01.2021	
Theory Examinations			nnounc	08.02.2021 To 25.03.2021	28.01.2021 To 10.02.2021	21.01.2021 To 17.02.2021	28.01.2021 To 10.02.2021
Internship Viva- Voce		Vill be a		-		11.02.2021 To 18.02.2021	
Professional training / Organization study				-		-	
Commencement of EVEN Semester			26.03.2021	11.02.2021	18.02.2021	19.02.2021	08.02.2021

- VII Semester B. E. / B. Tech students shall have to undergo internship as per circular of University VTU/Aca/2019-20/85, dated 12.05.2020. The classroom sessions for all the higher semesters would be in ONUNE/OFFLINE/BLENDED as per the order issued by UGC/Govt. of Karnataka until fur orders. The institute needs to function for six days a week with additional hours (Saturday is a full: working day). The faculty/staff shall be available to undertake any work assigned by the university. If any of the above dates are declared to be a holding then the corresponding event will come into effect on the next working day. Notification regarding Calendar of Events relating to the conduct of University Esaminations will be issued by the Registrar ((Valuation) from time to time. Academic Calendar may be modified based on guidelines/directions issued in the future by MHRD/UGC/AICTE/State Government. Revised Academic Calendar is also applicable for Autonomysus Colleges.



©	Revised-Academic Calendar of EVEN semesters of Strongrammes for 2020-2021
Semester	

Semesters	IV semester	IV semester	VI semester	VI semester	VIII semester	VIII semester	VIII semester
EVENTS	B.E./B.Tech.	B.Arch./ B.Plan.	B.E./B.Tech.	B.Plan./B.Arch	B.E./B.Tech.	B.Plan.	B.Arch
Commencement of EVEN Semester	19.04.2021	19.04.2021	19.04.2021	19.04.2021	19.04.2021	19.04.2021	19.04.2021
Last Working day of EVEN Semester	07.08.2021	07.08.2021	07.08.2021	07.08.2021	#20.07.2021	#20.07.2021	07.08.2021
Practical Examinations	09.08.2021 To 19.08.2021	09.08.2021 To 19.08.2021	09.08.2021 To 19.08.2021				
Theory Examinations	23.08.2021 To 09.09.2021	23.08.2021 To 09.09.2021	23.08.2021 To 09.09.2021	10.08.2021 To 31.08.2021	22.07.2021 To 30.07.2021	22.07.2021 To 30.07.2021	10.08.2021 To
Internship				_			17.08.2021
ternship Viva-Voce/ Project Viva-Voce	-			-	02.08.2021 To 06.08.2021		
rofessional training Organization study		-					
Commencement of ODD Semester	13.09.2021	13.09.2021	13.09.2021	13.09.2021			23.08.2021

- The classroom sessions for even the semester should commence from the dates mentioned above.

 The Institute needs to function for six days a week with additional hours (Saturday is a full working day). #if required the college can plan to have extra classes even on Sundays also.

 If any of the above dates are declared to be a holiday then the corresponding event will come into effect on the next working day. Notification regarding the Calendar of Events relating to the conduct of University Examinations will be issued by the Registrar (Evaluation) from time to time.

 The faculty staff shall be available to undertake any work assigned by the university.

 Academic Calendar may be modified based on guidelines/directions issued in the future by MHRD/UGC/AICTE/State Government. Revised Academic Calendar is also applicable for Autonomous Colleges. In case if any changes are to be affected by Autonomous Colleges in the academic terms and examination schedule, they could do so with the approval of the University.

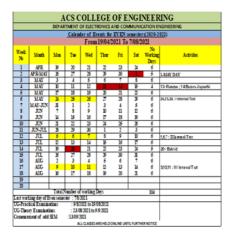
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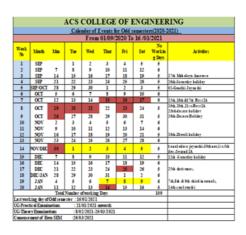
VTU CALENDER OF EVENTS

100	TEN	MARIN	Cale					rs(2020-2	(21)
100	257 6180			Fron	19/04/	2021 To	7/08/2		STREET,
rek No	Month	Mon	Tue	Wed	Thur	Fri	Sut	No Working Days	Activities
1	APR	19	20	21	22	23	24	6	
2	APR-MAY	26	27	28	29	30	ALC: U	5	I-MAY DAY
3	MAY	3	4	5	6	7	8	6	
4	MAY	10	11	12	101316		15	4	13- Ramzan : 14 Basava Jayanthi
5	MAY	17	18	19	20	21	22	6	
6	MAY	24	25	26	27	28	29	- 6	34,25,26 : I Internal Test
7	MAY-JUN	31	1	2	3	4	5	6	
8	JUN	7	8	9	10	11	12	6	
9	JUN	14	15	16	17	18	19	6	
10	JUN	21	22	23	24	25	26	- 6	
17	JUNJUL	28	29	30	1	2	3	6	
26	JUL	5	- 6	7	8	,	10	_	5,6,7 : II laternal Test
3	JUL	12	13	14	15	16	17	6	
4	JUL	19		21	22	23	24	-	20 - Bukrid
3	JUL	26	27	28	29	30	31	6	
6	AUG	2	3	4	5	6	7	6	5.16.11 : III Internal Test
7	AUG	9	10	11	12	13	14	_	SULUI : III Internal resc
8	AUG	16	17	18	19	20	21	6	
,						_			
)									
		Total N	umber of	working D	lays			164	
worki	ng day of Eve	a semest	er : 7/8/20	21				_	
ractio	al Examination	ias	: 9828	21 to 19/48	12021			_	
	Examination		: 23/08/2	2021 to 9/5	(2021			_	
	ent of odd SE		:13/09/200	!!	RE HELD OF				

3550	MORAL DE		Ca	lender of	Events	for Odd	semester	rs(2020-2)	021)
100	MARKET	THE STATE OF		From	n 01/09/	2020 To	16/01	/2021	Maria Andrewson Company
Week	No Meath	Mon	Tue	Wed	Thur	Fri	Sat	No Working Days	Activities
501	SEP		1	2	3	4	5	5	
2	SEP	7	- 8	9	10	11	12	6	
3	SEP	14	15	16	17	18	19	5	17th Mahalaya Amayase
4	SEP	21	22	23	24	25	26	5	36th-Saturday boliday
5	SEP/OCT	28	29	30	1	2	3	5	62-Gandhi Javanthi
6	0CT	5	- 6	7	8	9	10	6	
7	OCT	12	13	14	15			6	15th,16th&17th First IA
8	0CT	19	20	21	22		24	5	19th,20th,21st-First IA 23rd-desara holiday
10	OCT	26	27	28	29	30	31	5	Nth-Dusara Holiday
11	NOV	2	3	4	5	6	7	6	
12	NOV	9	10	- 11	12	13	14	6	
_	NOV	16	17	18	19	20	21	5	16th-Diwali holiday
13	NOV	23	24	25	26	27	28	- 6	
14	NOV/DEC	30	1	2	3	4	5	5	kanakadasa jayanthi-Mithney,Ist-5th dec Second IA
	DEC	7	8	9	10	11	12	5	12th -Saturday boliday
16	DEC	14	15	16	17	18	19	- 6	
17	DEC	21	22	23	24		26	5	25th christmas,
	DEC/JAN	28	29	30	31	1	2	- 6	
19	JAN	4	5	6	7	8	9	- 6	7th,8th & 9th third internals.
20	JAN	11	12	13	14	15	16	5	14th-sankranthi
d made	l t 40	Total N	Number of	working	Days			109	
nork D	ing day of C	Md semes							
There	cal Examin	itions		1/2021 on					
- I HEGS	y Examinat nent of Ever	ions	:8/02	/2021-25/	03/2021				

INSTITUTION CALENDER OF EVENTS





DEPARTMENT CALENDER OF EVENTS

Lesson Plan

The lesson plan must be kept ready one week before the commencement of the semester. The format to be maintained for the lesson plan is given to faculty by the department. The faculty is required to organize the lecture and prepare the lesson plan with accordance to time table and calender of Events.

Figure: 2.2.2 Sample Lesson Plan with details on Text and Reference Books



_			presentation
18	18	Properties of negative feedback, The Four Basic Feedback Topologies	Board presentation
19	19	The series-shunt, series-series, shunt-shunt and shunt-series amplifiers	Board presentation
_		Output Stages and Power Amplifiers: Introduction	PPT
20	20	Classification of output stages, Class A output stage,	Board
21	21	Classification of output stages, Class A Conference	presentation
22	22	Class B output stage: Transfer Characteristics,	Board presentation
23	23	Power Dissipation,	Board presentation
24	24	Power Conversion efficiency	Board presentation
25	25	Class AB output stage, Class C tuned Amplifier	Board presentation
26	26	Module -4:Op-Amp with Negative Feedback and general applications: Inverting and Non inverting Amplifiers	Board presentatio
27	27	Inverting and Non inverting Ampuners Closed Loop voltage gain, Input impedance, Output impedance, Bandwidth with feedback.	Board presentatio
28	28	DC and AC Amplifiers	PPT
29	29	Summing, Scaling	PPT
30	30	Averaging Amplifiers	PPT
31	31	Instrumentation amplifier ,Comparators,	PPT
32	32	Zero Crossing Detector, Schmitt trigger	
33	33	Module -5: Op-Amp Circuits: DAC - Weighted resistor and R-2R ladder, ADC- Successive approximation type	
34	34	Small Signal half wave rectifier,	Board presentation
35	35	Active Filters	Board presentation
36	36	First and second order low-pass and high-pass Butterworth filters	Board presentation
37	37	Band-pass filters,	Board presentation
38	38	Band reject filters.	Board presentation
39	39	555 Timer and its applications : Monostable Multivibrators	Board presentation
40	40	A stable Multivibrators	Board presentation

- 2. Design and analyze BJT and FET amplifier cir
- Design sinusoidal and non-sinusoidal oscillators.
- 4. Understand the functioning of linear ICs
- Design of Linear IC based circuits

ronics devices and Circuit theory", Pearson, 10th Edi

- oelectronics, BehzadRazavi, John Weily ISBN 2013 978-81-265-2307-8 as—Integrated Electronics, 2a: edition, 2010, TMH. ISBN 0-07-462245-1 ics Lab Manual", Volume I, PHI, 5th Edition, 2015,ISBN:97881203514.

MAINTENANCE OF COURSE FILE

For each course, a course file is prepared by the concerned faculty. Course file consist of Department Vision and Mission, VTU, Institution and Department calender of Events, Student List, Time table of class and Individual time table, syllabus, class conducted report, Assignment questions,VTU question papers,Notes,Program outcomes,co-po mapping ,and attainment of the course.

B. Pedagogical Initiatives

B.1 Lectures

- · Teaching Learning process through green board teaching.
- · Interactive sessions with students to ensure effective teaching.
- · Green board teaching is exclusively used to solve the numerical, derive mathematical expressions, workout complex problems and to clear concepts/doubts.

B.2 Presentation

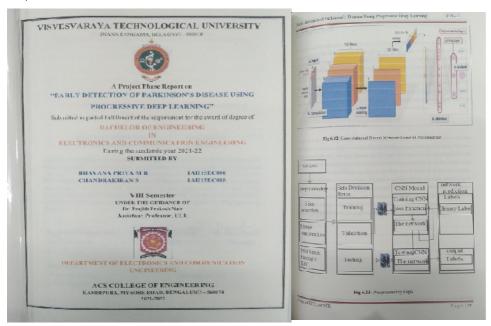
- Imparting bettter visual effects and better solution to solve complex engineering concepts.
- Animations help the students for faster grasping of convoluted concepts.
- Audio and Videos effectively communicate the working of actual engineering solutions and their impact.

Students are also encouraged to register through NPTEL courses, IIT Bombay, Infosys certification courses



B.3 Mini-Projects and Projects

- · Students are encouraged to carry out multidisciplinary projects to apply their engineering
- · knowledge from third semester onwards.
- 2-4 students in a group are allowed to choose their guide and in consultation with guide identify the project.
- The faculty mentor and the students collectively identify the Projects based on societal need and issues.
- · At the end of the semester, projects are evaluated by the examiners.



B.4 Methodologies to support slow learners and encourge Advanced learners

Proctor incharge and Head of the Department after discussion with class incharges given guidelines to individual mentors to identify slow learners by considering their academic performance in the Internal assessment tests and previous semester end examination.

The Students are considered as Slow learners if they score marks below 50% of the total CIE marks, Assignment marks, and Semester End Examinations. The Students who have obtained marks more than 75% are considered as Advanced Learners. Mentors observations play a vital role which gives the supplement of the individual observations of the student's.

Parents will be intimated about their ward academic progress and attendance shortage. Remedial Classes are conducted with an aim to improve the academic performance of the slow learners.

Advanced Learners: are encouraged to participate and present papers in various Seminars/ Conferences/ Workshops/ Inter Collegiate Competitions. They are encouraged to participate in various inter collegiate cocurricular activities such as debates, Problem Solving, design competitions etc. Meritorious students from every semester in the respective departments are provided along with a certificate of merit. They are also encouraged to participate in a wide range of activities through student clubs/forums.

B.5 Quality of Class room Teaching

Classroom Teaching

Quality of content delivery in live lectures is evaluated randomly by visiting ongoing lecture classes. Each classroom is spacious and equipped with white/black board and audio visual aids to create a better ambience for effective teaching learning environment. Each lecture is scheduled for one hour. During the lecture, faculties take efforts to keep students engaged by reviewing and asking questions on previous lecture and interactively deliver the lecture planned for the day. At the end of the lecture, students are encouraged to summarize, ask doubts from the content taught.

B.6.Conduct of experiment

Laboratory:

To ensure the quality of conduction of experiments in the laboratory, Lab incharge and Instructor monitors the readiness of laboratory and laboratory experiments. The Lab incharge takes runtime corrective measures to ensure quality of experiments. Cycle of experiments will be given to students before the commencement of semester. Continuous Evaluation in every lab session is done. Observation, individual report, laboratory examination and viva, are conducted and evaluated.







MICROCONTROLLERS LAB-18ECL47



Microcontroller Laboratory-18ECL47



ELECTRONICS DEVICES AND INSTRUMENTATION LABORATORY-18ECL37

SI. No.	Date	Name of the Experiment	Page No.	Marks Alloted	Staff Sign.
		PART- A	49		
	1	COLOR ROTTO	4		
11	21-10-21	A point - to- point network with	1-4	10	1-
	Po Po	four nodes & duplex links .		\$1-00	1
2.	28-10-2	A four-rade point to point	5-10	10	1.
		network with links no-na, ni-na		10	1
	04	£ 12-13.	100 35	10-0.0	. 0
3.	11-11-21	Ethernet LAN using n(6-10) modes	11-15	10	12
		& Comparing strongthput by charge	-	100	
		the error rate & daterate.		H. G. A.	
4.	18-11-21	Effernet LAN Using n rodes E,	FF-22	10	1:
		assign multiple traffic to		10	*
		the rodes.			,
6.	25-11-21	Ess with transmission rodes	23-28	10	1
		In WITCHESS LAN		1	*
		PART-B			
1 -	2-12-21	HOLC frame to perform	29-38	I m	1-
		i) Bit Stoffing		10	of
		ii) character stuffing			
2.	9-12-21	Distance Vector algorithm to find	39-44	10	1-1
		Suitable path for transmission		10	1
3.	16-12-21	Dijkstra"s algorithm to compue	45-52		1
		the shortest tarting porth		10	1
4.	23-12-21	USING CON-COTTER ON - 1	53-58	10	1
		Obtain the code to verify		10	1



Fig. Sample of filled Continuous Lab evaluation

B.7 Student Feedback of Teaching Learning Process and actions taken

Faculty Feedback Performance for every course is assessed from students with various parameters as defined by the Institution.

Some of the parameters are:

- Motivating the Students
- Presentation of the Subject

- Subject Knowledge
- Interaction with students
- Ability to Explain
- Punctuality/Class Time Utilization

 $\textbf{2.2.2 Quality of internal semester Question papers, Assignments and Evaluation} \ (20)$

Institute Marks: 20.00

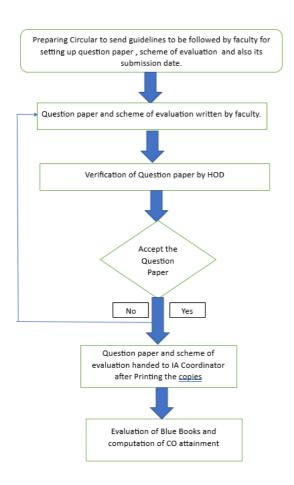
A.1 Process for Internal Assessment Test Question paper Setting

The Circular will be issued to all the faculty members from IA Coordinator before one -week of the commencement of the Internal Assessment.

The question paper along with scheme of solution will be prepared by the subject handling faculty according blooms taxomony levels which duly verified by HOD.

The subject handling faculty prepares the question paper according to blooms taxonomy levels and are mapped to course outcomes ,program outcomes to assess the students at various BT levels.

The internal blue books with question paper will be handed to the concered faculty member for Evaluation .



A.2 Procedure for Conduction and Evaluation of Internal Assessment Test.

Department provides blue books for writing the Internal Assessment tests and shall be maintained by the department for any verification purpose.

The students will be seated in their allocated seats as per the University seat numbers in the test hall, under the invigilation of a faculty member.

The Scheme of valution will be prepared for the question paper by the concerned faculty member ensuring appropriate distribution of marks for a transparent valution .

ACS Cotlege of Engineering, Bangalore
Department of Electronics and Communication Engineering
FIRST INTERNAL ASSESSMENT TEST-ODD SEMESTER 2021
8EM: III
br.30min Sub. Code: 18EC53
5/11/2021 Subject: Principles of Communication Systems Max. Marks: 50
Duration : 1hr.30min
Date : 25/11/2021
e: 1) Answer all Full Questi

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING SCHEME AND SOLUTION

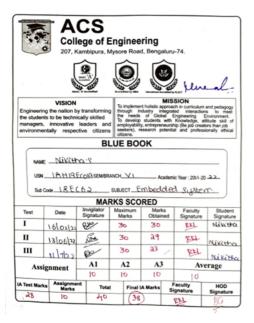
Sem: 05 Subject: Principle of Commonication Subject Code: 18 EC 53

A: O187 Faculty Name: M7. MAGESH HB

	Question Number	Solutions	Marks Allocated
C	ol·	Amplitude Modulation is a process of altering the amplitude of Carner signal in accordance with the instantaneous value of musage — Signal by keeping frequency and phase of consists Signal low tand.	×(02M)
		expression of AM Wave: - m(t) = AM (0321) for cut) = Ac (0521) fet; s(t) = Ac (1+ kamet) (0521) fet	
		SCF)= AC [8 (P-fc)+8(P+fc)]+ APC[8(4-fc)]	→05 ^{M)}
		+ 8(9+ (fe-fm)]+ of Ac [8(4-(fe+fm)+8) (f+(fe+fm)+6) Am Signal (f+)	
		S(f)	_>(03M)
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		The domain Andrew Frequency Shalptor	,

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Question Number	Solutions	Marks Allocated
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	6, (t) = 3900 T	
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The faculty incharge informs about the type of assignment that will be given <code>,its</code> submssion date,Marks allocation to students .

Assignments are compiled in such a way to mplement self learning habits to students from various sources.

The assignments wll be given generally before the commencement of the Internal assessment inorder to help the students for getting good marks in the IA.

Print

Submission date will be announced ,evaluated and its feedback will be given to students to improve learning and also to appreciate them.

Both CIE marks and assignment marks will be entered after each IA, and Finalized IA will be sent to university before SEE exams.

2.2.3 Quality of student projects (25)

Institute Marks: 25.00

Project work carried out by the final year students in two phases. Phase -I and Phase II aim at applying theoretical and practical knowledge gained to provide technical solutions to real world problems. we also ensure that the projects address and attain PO's and PSO's. The students are encouraged and motivated to do quality projects that address environment friendliness, societal needs, safety etc. The faculty members encourage students to publish their project work in reputed journals/conferences. Also, students are encouraged to avail the external funding schemes for their project work like KSCST, VTU project funding schemes.

Project Identification and Allocation:

- Conduct meeting with students in the presence of HoD, Professors, Associate Professors and project coordinators addressing the VTU guidelines and timelines ,Simultaneously, the project coordinators collect & display the list of projects suggested by the faculty members.
- Students can choose from the suggested projects or find a problem statement for the execution of the project based on their area of interest.
 Students must identify their team members and submit the synopsis to the project coordinator.
- Based on the student's chosen area and faculty specialization suitable guide will be allotted. The students will be intimated the finalized projects with guide and also the dates of the reviews.
- Conduction of First review which involves project synopsis presentation, in the presence of review panel members comprising of guide, project coordinator and HOD.
- Based on the inputs given by the Panel members students might need to identify another project title and resubmit the synopsis or improve the existing one.

Project Execution

All the students must report to their internal guides and update them on the progress of their project work.

The project team should give a presentation cum demonstration depicting the progress and partial output of their project work during second Review to the review panel members.

A final presentation and demonstration of the project is carried out by the project team during the third/ final review.

On successful completion of third review the project team submits the project report.

A project exhibition- ANAVESHANA is conducted at college level where the students are encouraged to demonstrate their project work.

Project work:

Project work shall preferably be Batch wise, the strength of each Batch shall not exceed a maximum of four students as per VTU Regulations.

Project Work Phase-1

The CIE Marks awarded for Project Work Phase-1 shall be based on the evaluation of Project Work Phase-1 Report, Project skill and Question and Answer session in the ratio 50:25:25. The marks awarded for Project report shall be same for all the Batch mates as per VTU Regulations.

Project Work Phase-2

The CIE Marks awarded for Project Work Phase-2 shall be based on the evaluation of Project Work Phase-2 Report, Project skill and Question and Answer session in the ratio 50:25:25. The marks awarded for Project report shall be same for all the Batch mates as per VTU Regulations.

Funded/Sponsored Projects:

List of funded/sponsored major projects.

SI. No.	Academic year	Name of Students	Title	Funding agency	Year	Amount	Guide
1	2021-2022	Swathi S Ramya C Nidhishree Varshini M U	Women's Safety Device Using Panic Button	KSCST	2021-22	7000	Dr. Bharathi Gururaj
2	2020-2021	Chandan Gowda Samarth K Vidya M Deepika S	Industry boiler Monitoring Using IoT	VTU	2020-21	5000	Dr.H.B. Bhuvaneswari
3	2020-2021	Manoj Kumar Yashpal Gowda Prajwal C N	Distancing	VTU	2020-21	5000	Mr. Harish L
4	2019-2020	Akshay S Devika S Shreya A Himanshu	Drowsiness detection using EEG signal Analysis	FAER	2019-2020	5000	Dr. Mathivanan M





DEPARTMENT OF ECE

PROJECT PHASE - 2 (2021-22 EVEN)

2/06/2022

All final year students are hereby informed that the second review of project phase 2 will be held on 10/6/2022 (Friday). All the groups are informed to prepare the following hard copies while attending the review.

- 1. Power Point (PPT) with guide correction.
- 2. Base Paper and Related Research Papers.
- 3. Working model of the project.

The PPT presentation slides should include but not limited to the following slides:

- 1) FRONT SLIDE
- 2) AGENDA
- 3) INTRODUCTION
- 4) LITERATURE SURVEY
- 5) EXSISTING SYSTEM
- 6) PROPOSED SYSTEM
- 7) FUTURE ENCHANCEMENT
- 8) REFERENCES

The time of the presentation will be as follows. A minimum of 25 to 30 slides should be prepared giving a detailed overview of the work done.

MAINTE OF THE	USN	NAME OF THE STUDENT	NAME OF THE GUIDE	TIME
	1AH18EC003	Ajay M.N		100
Material	1AH18EC015	Kiran Vanjre G		10:00 am
Distribution	1AH18EC023	Rahul M	Dr.A.M.Prasanna	
	1AH18EC026	Ranjeet K	Kumar	
Design and	1AH18EC029	Sadhana K V		
Simulation of	1AH18EC033	Sowmya M	1	10:30 am
Thermal Actuators	1AH18EC039	Vasavi B L	Dr.Bharathi	
	PROJECT Automatic Ration Material Distribution Design and Simulation of MEMS using	PROJECT	NAME OF THE PROJECT	NAME OF THE PROJECT





8	Knowledge Based Real Time	1AH17EC021	M.B.Sri Sandhya		1 - 1
9	Monitoring System	1AH18EC004		-	
10	For aquaculture	1AH18EC005	Ashwini Uppaladinni		11:00 am
11	Using IOT	1AH18EC016	1AH18EC016 Laxmi Uppaladinni		
12	IOT Based	1AH18EC001	Aarti Swamy	Mr.Nagesh .H.B	+
13	Underground Cable Fault Detector	1AH18EC006	Ashwini V	1	1
14		1AH18EC010	Gowri N	Mrs.Vijaya	11:30 am
15		1AH18EC014	Kavya M.S	Dalawai	11.50 am
16	Automatic Fracture		Pooja G		-
17	Detection in Bone Using Matlab and		Rashmitha P		
18	Image Processing	1AH18EC030	S.R.Indhu		12:00 pm
19		1AH18EC043	Yogitha Vaishnav K	Dr.Prajith Prakash	
20	Smart Crop	1AH18EC020	Niteesh Gowda S	Nair	-
21	Protection System	1AH18EC007	Charan V		1000758902
22		1AH18EC013	Kappu Hemanth Kumar Reddy	Dr.Bharathi	12:30 pm
23		1AH18EC040	Vijay K	Gururaj	
24	Women Safety	1AH18EC019	Nidhishree V		
25	Device Using Panic BUtton	1AH18EC025	Ramya C	Dr.Prajith Prakash	1:30 pm
26	Doubli	1AH18EC036	Swathi S		
27		1AH18EC038	Varshini M U	Nair	
28	IOT Based Hi-Tech	1AH18EC008	Chethan D		
29	Robot For Teaching	1AH18EC009	Gagan B R		h. 1
30	1 7 7 1	1AH18EC011	Harish Kumar M V	Mrs.Vijaya	2:00 pm
31		1AH18EC041	Vijay Kumar S	Dalawai	2.00 pm
32	Smart Rail Tech	1AH15EC001	Abhay Nagesh HA		
33		1AH16EC031	Nikhil N		
34	1	1AH18EC400	Nishanth S	Mr.Nagesh .H.B	2:30 pm
35	Early Detection of Parkinson's Disease	1AH15EC006	Bhavana Priya M R	tugeon .II.B	
6	using Progressive Deep Learning	1AH15EC008	Chandra Kiran S	Dr.Prajith Prakash Nair	3:00 pm

Project Coordinator

HODECE

HOD

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Fig.No. 2.2.3.1-Sample Project circular

Mini Projects:

Mini Project work carried out by the students aims at applying theoretical and practical knowledge gained during the respective semesters thereby inculcating the learning by doing amongst the students.

Project Identification, Allocation, Continuous Monitoring and Evaluation: The process of mini project identification, allocation and monitoring and evaluation is summarized in table

Processes of Mini-project identification, allotment, monitoring and evaluation as per VTU guidelines

Steps	Tasks	Process Description
1	Project Identification	Projects are identified by the students in their respective area of interest. Students must submit a brief synopsis based on their identified project. Project coordinator approve the synopsis or ask for its resubmission if required.
2	Allotment	Projects Guides are allocated to them based on faculty expertise and synopsis submitted.

3	Continuous Monitoring	The progress of a project is monitored by the guide on weekly basis. The continuous monitoring is done through two periodic reviews by panel (first review and final review).
4	Evaluation	Internal Assessment of the project team members is done based on project objectives and quality of the project by the internal guide along with the review panel member (Problem statement, Effectiveness of the solution, presentation, report with individual contribution, etc). The continuous progress is assessed through periodic review by panel (first review and final review) Final IA marks are calculated by taking the average of two reviews. Semester End Examination is conducted wherein the project team members are assessed by an Internal and an External examiner. This includes presentation by the project team and demonstration of the project followed by Viva-Voce.

Outcome of the Project

Students enhance their innovative project work to convert it into relevant technology application or product. While carrying out the project work students learn how to work in team and individually. Students are also involved in deciding the budget of their project and accordingly selecting the components without compromising the functionality. These helps the students to gain finance and managerial skills. Further it encourages students to enter into entrepreneurship.

Students are also motivated to present their project work in National/international

Conferences, and project exhibitions and also to publish a paper based on their project work in journals.

2.2.4 Initiative related to industry interaction (15)

Institute Marks: 15.00

To strengthen interaction with industries and to keep our students updated with the latest trends in Electronics & Communication Engineering, the Department has entered into an agreement with the following companies. The planning of the workshops, seminars, internships, and academic projects will be coordinated by these companies along with the Department.

MOUs were signed with industries to emphasize on

Internship Industrial Visits

Industry supported Laboratory and activities

A.MOU signed with the Department

SI.No.	Industries/ Company Name	Date of Duration agreement	MoU Link
1	Cadmaxx Edtech Pvt Ltd	21.09.20223 years	https://www.acsce.edu.in/acsce/wp-content/uploads/2013/06/MOU_cadmaxx-edtech.pdf (https://www.acsce.edu.in/acsce/wp-content/uploads/2013/06/MOU_cadmaxx-edtech.pdf)
2	GMAT and Be Practical	08-06- 2022 ² years	https://www.acsce.edu.in/acsce/wp-content/uploads/2013/06/MOU_gmatpdf (https://www.acsce.edu.in/acsce/wp-content/uploads/2013/06/MOU_gmatpdf) https://www.acsce.edu.in/acsce/wp-
3	EdGate Techniologies Pvt. Ltd, Bangalore	20-09- 2021 ³ years	content/uploads/2013/06/MOU_Edgate- Technologies.pdf (https://www.acsce.edu.in/acsce/wp- content/uploads/2013/06/MOU_Edgate- Technologies.pdf)
4	Pongu Ventures Pvt. Ltd, Chennai	23-01- 2019 ⁴ year	https://www.acsce.edu.in/acsce/wp-content/uploads/2013/06/Pongu-Ventures-IIC.pdf (https://www.acsce.edu.in/acsce/wp-content/uploads/2013/06/Pongu-Ventures-IIC.pdf)
5	Uniqval Software Solutions	06-02- 2018 ² years	https://www.acsce.edu.in/acsce/wp- content/uploads/2021/08/UNIQAL-keep-IT- simple.pdf
6	Infotech Solutions, Chennai	10-01- 2018 ³ years	https://www.acsce.edu.in/acsce/wp- content/uploads/2021/08/Infotech- Solutions.pdf
7	BOSCH Rexroth	02-07- 2018 years	https://www.acsce.edu.in/acsce/wp- content/uploads/2021/09/mech-MoUs- singed.pdf
8	Intel- FICE	01-06- 2018 years	https://www.acsce.edu.in/acsce/wp- content/uploads/2013/06/INTEL-MOU.p https://www.acsce.edu.in/acsce/wp-
9	SWAYAM-NPTEL- Local-Chapter	2016 6YEAR	content/uploads/2013/05/SWAYAM- NPTEL-Local-Chapter.pdf (https://www.acsce.edu.in/acsce/wp- content/uploads/2013/05/SWAYAM- NPTEL-Local-Chapter.pdf)

2.2.4.2. Implementation

a. Webinars conducted:

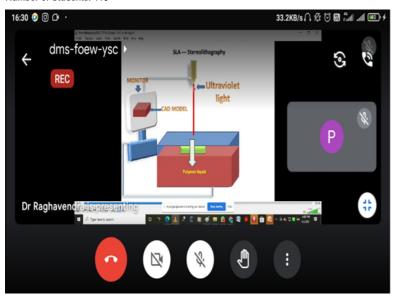
Title: "3D Printing Technology"

Number of Students: 70



Title: "Campus to Corporate

Number of Students: 110







Workshops Conducted:

Title: "Student Development Program"

Number of Students: 52





2.2.4Initiatives related to industry internship training (15)

(Mention the initiatives, implementation details and impact analysis)

a. Industrial Visit details

Industrial visits are a crucial part of the academic curriculum because they give students practical experience in real-world situations and a pragmatic viewpoint on a theoretical concept relevant to their line of work. Furthermore, by giving students first-hand experience identifying the inputs and outputs for a variety of business operations and procedures, industrial visits bridge the widening gap between academic learning and practical experience.

Students are scheduled for industrial tours where the essential instruction is provided, allowing them to provide their best effort during the placements. Students can increase the necessary abilities through a training programme, where they can individually develop their technical talents.

Name of the event:

1)INDUSTRIAL VISIT TO SOLAR POWER PLANT

Date: 26.03.2019

Venue: Solar Power Plant in Shivanasamudra, Mandya District

No of participants: III Year ECE Students-30

The students of VI semester were taken to Solar Power Plant in Shivanasamudra, Mandya District for Industrial visit on 26.03.2019 that is on Tuesday as a part of Industry interaction to students along with two faculty members. The students assembled in the college at 8:30 am in their class. As the bus arrived at 9:00 am the students boarded the bus and started from college and reached Solar Power Plant in Mandya District at 12:30pm.



Name of the event: INDUSTRIAL VISIT TO HAL Museum

Date: 27.03.2019

No of participants: II Year ECE Students- 30

The students of IV SEM were taken to HAL Museum for Industrial visit on 27.03.2019 that is on Wednesday as a part of Industry interaction to students along with two faculty members. The students assembled in the college at 8:30 am in their class. As the bus arrived at 8:45 am the students boarded the bus and started from college and reached HAL Museum at 10:30am. Tickets collected for all students by paying amount of Rs 50 per head. Next all the students entered the Museum and started to visit all places inside the Museum. There are two major halls, one displaying the photographs that chart the growth of aviation in each decade from 1940 till date and a Hall of Fame that takes the visitors on an exciting journey through the Heritage of Aerospace & Aviation Industry in India. The second Hall highlights the various functions of an Aero Engine by displaying motorized cross sections of various models of Aero Engines. Real Engines such as Garret (for Dornier Aircraft), Adour (for Jaguar Aircraft) and Orpheus (for Kiran Aircraft) can be seen here along with Ejection Seat with Parachute; and Pushpak & BasantAircraft.





Name of the event: INDUSTRIAL VISIT TO Visvesvaraya Rain Water Harvesting Theme Park

Date: 14.10.2022

No of participants: II Year ECE Students- 55

The students of III semester were taken to Solar Power Plant in Visvesvaraya Rain Water Harvesting Theme Park for Industrial visit on 14.10.2022 that is on Friday as a part of Industry interaction to students along with two faculty members. The students assembled in the college at 8:30 am in their class. As the bus arrived at 9:00 am the students boarded the bus and started from college and reached Visvesvaraya Rain Water Harvesting Theme Park at Jayanagar 10:00 am. Located in Jayanagar, this garden was designed and developed by a scientist named AR Shivakumar and made possible by the Bangalore Water Supply and Sewerage Board. As the name suggests, it features different ways to harvest rainwater – there are 26 models of the different types of rainwater harvesting. A trip here can be both relaxing and informative at the same time.



4) Name of the event: INDUSTRIAL VISIT TO Be Practical Tech Solutions

Date: 9.12. 2022

Participants: II and III Year ECE Students- 60

A batch of 3rd semester and 5th semester of department ELECTRONICS AND COMMUNICATION ENGINEERING along with faculty Dr. A. M. Prasanna kumar sir and Mrs. Aishwarya L.K madam visited BE PRACTICAL TECH SOLUTIONS at Basaveshwara Nagar in Bangalore -560079.

This visit was mainly focused on understanding the important courses for professional future and about career guidance. Initially we visited the office at the time of 11:15 a.m and we had three sessions there.

The first session had started at the time of 11:45 a.m, and the session was held by Mr. Koushal, Business development manager. Firstly he told us to introduce our friends and later he introduced us all about the institution. This Institute was started in the year of 2012. He asked about our future goals. This session ended at 12:15 p.m.

The second session started at 12:20 p.m , and the session was held by $\mbox{Mr.}$

Ganesh, Full Stack developer.





The effectiveness of this practice can be gauged by the great response of the participants of the workshops.

Students picked up what they learnt at the workshops to implement their own mini project and also final year projects.

Students gained from this exposure to incorporate an entrepreneurial spirit and project based .thinking

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

Institute Marks: 15.00

Initiatives related to Industry Internship / Summer Training Internship/Professional Practice:

The Internship shall be completed during the period specified in the Scheme of Teaching and Examination.

The internship shall preferably be at an Industry/R and D organization/ IT company/Government organization of significant repute for a specified period as mentioned in scheme of Teaching and Examination.

The Department/college shall nominate staff members to facilitate, Guide and supervise students under internship.

The students shall report progress of the internship to the Guide in regular intervals and seek his/her advise. The Guide shall maintain the progress record of the candidates undergoing internship.

After the completion of internship students shall submit a report with completion certificate and attendance certificate to the Head of the Department with the approval of both Internal and External Guides.

There shall be 40 marks for CIE and 60 marks for SEE. The minimum requirement of CIE MARKS SHALL BE 50% of the maximum marks.

The Internship coordinator shall be the internal examiner for the SEE.

The external Guide/Senior Professor will be the external examiner for SEE. Examination for internship shall be conducted at the college and the date shall be given by VTU .Batches will be created according to dates specified. The Examiners shall jointly award the SEE marks.

In case the external Guide expresses his inability to conduct the examination, the Principal/ Chief Superintendent of the Institute shall appoint a senior Faculty of the Department to conduct the Examination along with the Internal Guide.

Non-availability of Internal guide due to inevitable situations for the conduct of SEE, the Principal/ Chief Superintendent of respective institute shall appoint a senior faculty of the Department to conduct the Examination.

The students are permitted to carry out the internship anywhere in India or abroad. The University will not provide any Kind of financial assistance to any student for carrying out the Internship.

The CIE Marks awarded for Internship shall be based on the evaluation of Internship Report, Internship Presentation skill and Question and Answer session in the ratio 50:25:25 as per VTU Regulations.

2019-2020





Fig 2.2.5.1 Internship Certificate



Fig. 2.2.5.2 Student list

2020-2021



Fig 2.2.5.6 Circular and Schedule

2021-2022



Figure 2.2.5.3 Internship company list







DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING VII SEM STUDENT LIST-2021 -2022

NL.NO	USS	STUDENT NAME	Presentation(20/25)	Report(15/20)	Q & A(5)	Total (40/50
1	1AH18EC001	Arati S Swamy	20	15	5	40
2	1AH18EC003	Auty M N	20	15	4	39
3	TAH18EC004	Anunha A S	20	15	4	39
4	1AH18EC005	AshwaniUppaladinni	20	15	4	39
5	1AH18EC006	Ashraum V	20	15	4	39
6	1AH18EC007	Charan V	20	15	4	39
7	1AH18EC008	Chetan	20	15	4	39
8	1AH18EC009	Gagan B R	20	15	4	39
9	1AH18EC010	Gown N	20	15	5	40
10	1AH18EC011	Haroh Kumar M V	20	15	4	39
11	1AH18EC012	Hemanth K	20	15	4	38
12	1AH18EC013	KapuHemanth Kumar Roddy	20	15	5	40
13	1AH18EC014	Kavya M S	20	15	5	40
14	1AH18EC015	KiranVanjre G	20	15	4	39
1.5	IAH18EC016	LaxmiUppaladinni	20	15	4	39
16	1AH18EC019	Nidhishree V	20	15	5	40
17	1AH18EC020	NiteshGowda S	20	15	5	40
18	1AH18EC021	Pooja G	20	15	4	39
19	1AH18EC022	Rachana	20	15	4	39
20	IAH18EC023	Rahul M	20	15	4	39
21	1AH18EC024	RakshithYadav B	20	15	4	39
22	1AH18EC025	Ramya C	20	15	5	40
23	1AH18EC026	Ranjeet K	20	15	4	39
24	1AH18EC027	Rashmitha P	20	15	4	39
25	1AH18EC029	Sadhana K V	20	1.5	4	39
26	1AH18EC030	SallapalliRakshaIndhu	20	15	4	39
27	1AH18EC032	Shreedhara D Borannavar	20	15	4	38
28	LAH18EC033	Sowmya M	20	15	5	40
29	1AH18EC035	Suresh Kumar H V	20	15	4	39
30	1AH18EC036	Swathi S	20	15	5	40
31	1AH18EC037	Tejas K B	20	15	4	. 38
32	1AH18EC038	Varshini M U	20	15	4	39
33	1AH18EC039	Vasavi B L	20	15	4	39
34	LAH18EC040	Vijay K	20	15	4	39
35	1AH18EC041	Vijay Kumar S	20	15	4	39
36	1AH18EC042	Vijetha Rao A V	20	15	4	39
37	IAHI8EC043	YogithaVaishnavi	20	15	4	39
38	IAH17EC021	Srisandhya.M.B	20	15	4	39
39	IAH18EC045	Somesh D Yogi	20	15	4	39
40	1AH15EC001	AbayNagesh H A	25	20	3	48
41	IAH15EC006	BhavanPriya M R	25	20	5	50
42	TAHTSEC008	Chandra Kiran S	25	20	5	50
43	1AH17EC029	Shashank	25	20	3	48
44	IAH16EC031	Nikhil N	25	20	5	50
45	IAH17EC003	Ajay Kumar Param	25	20	3	
46	IAHI6EC011	Bharat S	25	20	3	48
47	1AH18EC400	Nishanth	20	15	4	48

Fig 2.2.5.4 Internship Marks Split up

Technical Seminar:

The CIE Marks awarded for Technical Seminar shall be based on the evaluation of Seminar Report, Seminar Presentation skill and Question and Answer session in the ratio 50:25:25.





Department of Electronics & Communication Engineering

TECHNICAL SEMINAR (2021-2022)

Date: 10.04.2022

All the Final Year students are hereby informed to present ppt for the technical seminar. The seminar will be conducted from may 20th & 21th 2022. The presentation of the topic is given through PPTs.

Fig 2.2.5.17 Circular

Corrected copy of the report and PPT should be submitted to the Coordinator before the Seminar.

Renula Kellan A 10/4/22

Technical Seminar Coordinator

HOD ECE 10 H 201

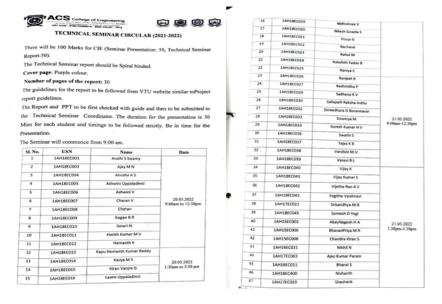


Fig 2.2.5.18 Schedule and Guidelines



Fig 2.2.5.19 Topics







3 COURSE OUTCOMES AND PROGRAM OUTCOMES (120)

Total Marks 120.00

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 20.00

PSO1	To Analyze, design and develop solutions by applying foundational concepts of Electronics and Communication Engineering.
PSO2	Design and implement the products using cutting edge technologies in hardware and software, to demonstrate leadership qualities among students, to promote research and development activities for betterment of organization and society.

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: 5.00

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

Course Name :		C2 33	Course Year :	2019-2020
Course Name	Statements			
C2 33.1	Understand the principles of se	miconductor Physics		
C2 33.2	Understand the principles and o	characteristics of differen	t types of semiconductor devices.	
C2 33.3	Understand the fabrication proc	ess of semiconductor de	evices.	
C2 33.4	Utilize the mathematical models	of semiconductor juncti	ons and MOS transistors for circuits and systems.	

Course Name :		C2 42	2019-2020									
Course Name	Statements	Statements										
C2 42.1	Understand th	e characteristics of BJT	s and FETs.									
C2 42.2	Design and ar	nalyze BJT and FET am	plifier circuits.									
C2 42.3	Design sinuso	idal and non-sinusoidal	oscillators.									
C2 42.4	Understand th	e functioning of linear I	unctioning of linear ICs									
C2 42.5	Design of Line	on of Linear IC based circuits										

Cou	rse Name :		C3 53 Course Year : 2020-2021								
Course Name Statements											
С3	53.1	Understand and analyze concepts of	Analog Modulation scher	nes viz; AM, FM., Low pass sampling and Quantiza	ation as a random process						
С3	53.2	Understand and analyze concepts dig	itization of signals viz; sa	ampling, quantizing and encoding.							
С3	53.3	Evolve the concept of SNR in the presence of channel induced noise and study Demodulation of analog modulated signals.									
C3 534 Evolve the concept of quantization poise for sampled and encoded signals and study the concepts of reconstruction from these samples at a receiver											

Course Name :		C3 61	C3 61 Course Year : 20						
Course Name	Statements								
C3 61.1	Understand the mathematical repre	esentation of signal, sym	bol, and noise.						
C3 61.2	Understand the concept of signal p	rocessing of digital data	and signal conversion to symbols at the transmitter	r and receiver.					
C3 61.3	Compute performance metrics and	parameters for symbol p	processing and recovery in ideal and corrupted cha	nnel conditions					
C3 61.4 Compute performance parameters and mitigate channel induced impediments in corrupted channel conditions									

Course Name :		C4 71	Course Year :	2021-2022
Course Name	Statements			
C4 71.1	Understand the layering arc	chitecture of OSI reference	ce model and TCP/IP protocol suite	
C4 71.2	Understand the protocols a	ssociated with each laye	r	
C4 71.3	Learn the different networki	ng architectures and the	ir representations	
C4 71.4	Learn the functions and ser	vices associated with ea		

Course Name :		C4 81	Course Year :	2021-2022					
Course Name	Statements								
C4 81.1	Understand the concepts of propag	ation over wireless chan	nels from a physics standpoint						
C4 81.2	Application of Communication theo	ry both Physical and net	working to understand GSM systems that handle m	obile telephony					
C4 81.3	Application of Communication theo	ry both Physical and net	working to understand CDMA systems that handle i	mobile telephony.					
C4 81.4 Application of Communication theory both Physical and networking to understand LTE-4G systems									

 $\textbf{3.1.2 CO-PO} matrices \ of \ courses \ selected \ in \ \textbf{3.1.1} (\textbf{Six} \ matrices \ to \ be \ mentioned; \ one \ per \ semester \ from \ 3rd \ to \ 8th \ semester) \ (5)$

Institute Marks: 5.00

1 . course name : C233

Course	PO1		PO2		PO3		PO4		PO5		PO6	PO6		PO7		PO8		PO9			PO11		PO12	
C233.1	3	~	2	~	2	~	2	~	1	~	-	~	-	~	-	~	1	~	-	~	1	~	1	~
C233.2	2	~	3	~	2	~	2	~	1	~	-	~	-	~	-	~	1	~	-	~	1	~	1	~
C233.3	2	~	2	~	3	~	2	~	1	~	-	~	-	~	-	~	1	~	-	~	1	~	1	~
C233.4	2	~	2	~	2	~	2	~	1	~	-	~	-	~	-	~	1	~	-	~	1	~	1	~
Average	2.25		2.25		2.25		2.00		1.00		0.00		0.00		0.00		1.00		0.00		1.00		1.00	

2 . course name : C242

Course	PO1		PO2		PO3		PO4	O4 PC		PO5		PO6		PO7		PO8		PO9			PO11		PO12	
C242.1	2	~	1	~	2	~	2	~	1	~	-	~	1	~	-	~	2	~	-	~	-	~	2	~
C242.2	2	~	1	~	2	~	2	~	2	~	-	~	1	~	-	~	3	~	-	~	-	~	2	~
C242.3	2	~	1	~	2	~	2	~	2	~	-	~	1	~	-	~	3	~	-	~	-	~	2	~
C242.4	2	~	1	~	2	~	2	~	3	~	-	~	2	~	-	~	3	~	-	~	-	~	2	~
C242.5	2	~	1	~	2	~	2	~	3	~	-	~	2	~	-	~	3	~	-	~	-	~	2	~
Average	2.00		1.00		2.00		2.00		2.20		0.00		1.40		0.00		2.80		0.00		0.00		2.00	

3 . course name : C353

Course	PO1		PO2		PO3		PO4	PO5		PO6		PO7		PO8		PO9		PO10		PO11		PO12		
C353.1	3	~	2	~	2	~	1	~	-	~	-	~	-	~	-	~	-	~	1	~	-	~	1	~
C353.2	3	~	2	~	3	~	1	~	-	~	-	~	-	~	-	~	-	~	1	~	-	~	1	~
C353.3	3	~	2	~	3	~	1	~	-	~	-	~	-	~	-	~	-	~	1	~	-	~	1	~
C353.4	3	~	2	~	2	~	1	~	-	~	-	~	-	~	-	~	-	~	1	~	-	~	1	~
Average	3.00		2.00		2.50		1.00		0.00		0.00		0.00		0.00		0.00		1.00		0.00		1.00	

4 . course name : C361

Course	PO1		PO2		PO3		PO4		PO5		PO6		PO7		PO8		PO9		PO10		PO11		PO12	
C361.1	3	~	2	~	1	~	1	~	1	~	-	~	-	~	-	~	-	~	-	~	-	~	2	~
C361.2	3	~	2	~	2	~	1	~	1	~	-	~	-	~	-	~	-	~	-	~	-	~	2	~
C361.3	3	~	2	~	2	~	1	~	1	~	-	~	-	~	-	~	-	~	-	~	-	~	2	~
C361.4	3	~	2	~	1	~	1	~	1	~	-	~	-	~	-	~	-	~	-	~	-	~	2	~
Average	3.00		2.00		1.50		1.00		1.00		0.00		0.00		0.00		0.00		0.00		0.00		2.00	

5 . course name : C471

Course	PO1		PO2		PO3		PO4		PO5		PO6		PO7		PO8		PO9		PO10		PO11		PO12	
C471.1	3	~	2	~	2	~	2	~	1	~	-	~	-	~	-	~	-	~	1	~	-	~	2	~
C471.2	3	~	2	~	2	~	2	~	1	~	-	~	-	~	-	~	-	~	1	~	-	~	2	~
C471.3	3	~	2	~	2	~	2	~	1	~	-	~	-	~	-	~	-	~	1	~	-	~	2	~
C471.4	3	~	2	~	2	~	2	~	1	~	-	~	-	~	-	~	-	~	1	~	-	~	2	~
Average	3.00		2.00		2.00		2.00		1.00		0.00		0.00		0.00		0.00		1.00		0.00		2.00	

6 . course name : C481

Course	PO1		PO2		PO3		PO4		PO5		PO6		PO7		PO8		PO9		PO10		PO11		PO12	
C481.1	3	~	2	~	2	~	1	~	1	~	-	~	-	~	-	~	-	~	1	~	-	~	2	~
C481.2	3	~	2	~	2	~	1	~	1	~	-	~	-	~	-	~	-	~	1	~	-	~	2	~

Average	3.00		2.00		2.00		1.00		1.00		0.00		0.00		0.00		0.00		1.00		0.00		2.00	
C481.4	3	~	2	~	2	~	1	~	1	~	-	~	-	~	-	~	-	~	1	~	-	~	2	~
C481.3	3	~	2	~	2	~	1	~	1	~	-	~	-	~	-	~	-	~	1	~	-	~	2	~

1 . Course Name : C233

Course	PSO1		PSO2	!
C233.1	3	~	2	~
C233.2	3	~	2	~
C233.3	3	~	2	~
C233.4	3	~	2	~
Average	3.00		2.00	

2 . Course Name : C242

Course	PSO1		PSO2	!
C242.1	3	~	2	~
C242.2	3	~	2	~
C242.3	3	~	2	~
C242.4	3	~	2	~
C242.5	3	~	2	~
Average	3.00		2.00	

3 . Course Name : C353

Course	PSO1		PSO2	
C353.1	3	~	2	~
C353.2	3	~	2	~
C353.3	3	~	2	~
C353.4	3	~	2	~
Average	3.00		2.00	

4 . Course Name : C361

Course	PSO1		PSO2	!
C361.1	2	~	1	~
C361.2	2	~	1	~
C361.3	2	~	1	~
C361.4	2	~	1	~
Average	2.00		1.00	

5 . Course Name : C471

Course	PSO1		PSO2	
C471.1	2	~	2	~
C471.2	2	~	2	~
C471.3	2	~	2	~
C471.4	2	~	2	~
Average	2.00		2.00	

6 . Course Name : C481

Course	PSO1		PSO2	
C481.1	2	~	3	~
C481.2	2	~	3	~
C481.3	2	~	3	~
C481.4	2	~	3	~

Average 2.00 3.00

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$\textbf{3.1.3 - A Program level Course-PO matrix of all courses INCLUDING first year courses} \ (10)$

Institute Marks : 10.00

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C111	3	2	2	1	1	0	0	0	0	1	0	1
C112	3	0	3	2	3	0	3	0	3	3	3	3
C113	3	2	3	1	0	0	0	0	0	1	0	1
C114	3	3	1	2	3	1	1	1	0	1	0	1
C115	3	3	2	1	0	0	1	0	0	0	0	1
C116	3	3	2	0	0	2	0	0	0	0	0	2
C117	3	2	3	2	0	0	0	0	0	1	0	1
C118	0	0	0	0	0	0	0	0	0	0	3	0
C121	2	2	2	0	0	0	0	0	0	0	2	2
C123	2	2	0	0	0	0	0	0	0	0	0	0
C124	3	0	2	0	0	0	0	0	0	1	0	2
C125	2	2	2	0	2	2	2	0	2	2	1	0
C128	0	0	0	0	0	0	0	0	0	0	3	0
C1L27	3	3	0	0	0	3	3	3	0	0	2	0
C222	2	0	0	0	0	0	0	0	0	0	2	0
C226	3	3	0	0	0	0	0	3	3	3	0	3
C231	2	2	2	0	0	0	0	0	0	0	2	2
C232	2	2	0	0	0	0	0	0	0	1	0	1
C233	3	3	3	2	0	0	1	0	0	0	0	0
C234	3	3	3	3	2	0	0	0	0	1	0	1
C235	3	3	3	1	2	0	2	0	0	2	0	0
C236	3	3	2	2	0	0	1	0	0	0	0	0
C237	3	3	3	3	3	2	0	0	0	1	0	1
C238	3	3	3	2	0	0	0	0	0	1	0	1
C241	3	3	3	0	0	0	0	0	0	0	2	2
C242	3	3	3	2	0	0	1	0	0	1	0	1
C243	3	3	3	2	0	0	1	0	0	1	0	1
C244	3	3	3	2	0	0	1	0	0	1	0	1
C245	3	3	3	2	0	0	1	0	0	1	0	1
C246	3	3	2	2	0	0	0	0	0	1	0	1
C247	3	3	3	2	0	0	0	00	0	1	0	1
C248	3	3	2	2	0	0	0	0	0	1	0	1
C249	0	0	0	0	0	0	0	0	0	0	0	1
C257	3	3	3	2	2	0	0	0	0	1	0	1
C339	0	0	0	0	0	0	0	0	0	0	0	0
C351	0	0	0	0	0	0	1	2	3	3	3	1
C352	3	3	2	1	2	1	0	0	0	1	0	1
C353	3	3	2	2	2	0	0	0	0	1	0	1
C354	3	3	3	2	3	0	1	0	0	0	0	3
C355	3	3	2	2	0	0	0	0	0	1	0	1
C356	3	2	3	2	2	2	2	1	2	2	2	1
C358	3	3	3	2	0	0	0	0	0	1	0	1
C359	3	0	2	0	0	0	0	0	0	1	0	2

C361	3	3	3	2	3	2	2	0	0	1	0	1
C362	3	3	2	1	0	0	1	0	0	0	0	1
C363	3	3	2	3	2	2	1	0	1	2	0	0
C3642	2	2	2	2	0	0	0	0	0	1	0	1
C3653	3	2	3	2	3	0	0	0	0	0	0	1
C366	3	3	2	2	2	0	0	0	0	1	0	1
C367	3	3	3	2	2	0	0	0	0	1	0	1
C368	3	3	3	2	2	0	0	0	0	1	0	1
C471	3	3	3	2	2	0	0	0	0	1	0	1
C472	3	3	2	2	0	0	0	0	0	1	0	1
C4733	3	2	3	2	0	0	0	0	0	1	0	1
C4743	3	3	2	0	0	0	0	0	0	1	0	1
C4753	3	3	2	0	0	0	0	0	0	1	0	1
C476	3	3	3	3	2	2	0	0	0	1	0	1
C477	3	3	2	2	2	0	0	0	0	1	0	1
C478	2	2	2	2	2	2	2	2	2	2	2	2
C481	3	2	2	1	0	0	0	0	0	0	0	1
C4824	3	2	3	2	2	2	1	0	2	2	0	2
C483	3	3	3	3	3	2	3	2	3	2	3	2
C484	3	3	2	2	2	2	2	2	2	2	2	2
C485	3	3	2	2	2	2	2	2	2	2	2	2

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

Course	PSO1	PSO2
C111	2	2
C112	1	1
C113	2	2
C114	2	2
C115	2	2
C116	1	1
C117	2	2
C118	2	2
C121	2	2
C122	2	2
C123	1	2
C124	1	0
C125	2	2
C126	2	2
C127	2	2
C128	2	2
C231	2	2
C233	3	2
C234	2	2
C235	3	2
C236	2	2
C237	2	2
C239	2	2
C241	2	2

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C242	2	2
C243	3	1
C244	3	2
C245	3	2
C246	3	2
C247	2	2
C248	2	2
C249	1	1
C351	2	2
C352	3	2
C353	2	2
C354	3	3
C355	3	2
C356	3	3
C357	2	2
C358	2	2
C359	0	1
C36	2	2
C361	2	2
C362	2	2
C363	3	2
C3642	2	2
C3653	2	2
C367	2	2
C368	2	2
C376	2	2
C382	2	2
C471	2	2
C472	3	2
C4733	2	2
C4743	2	2
C4753	1	1
C477	2	2
C478	2	2
C481	3	2
C4824	2	2
C483	2	2
C484	2	2
C485	3	3
_		

3.2 Attainment of Course Outcomes (50)

Total Marks 50.00

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

https://enba.nbaind.org/SARTemplates/eSARUGTierIIPrint.aspx? Appid=7671 & Progid=578

Institute Marks: 10.00

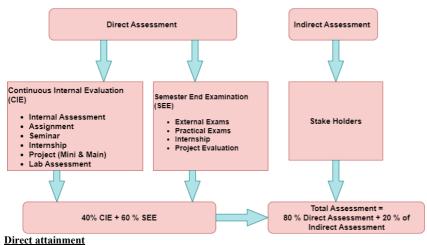
The key aspects in Outcome-Based Education (OBE) are the assessment of course outcomes. This describes the mode of assessment adopted to measure the students' performance using direct assessment and indirect assessment methods

Program Outcomes (PO), Course Outcomes (CO) and Program Specific Outcomes (PSO) are the three levels of the outcomes from OBE. Course Outcomes, Program Outcomes and Program Specific Outcomes relate to the knowledge (cognitive), skills (psychomotor), and behavior (affective) that the student acquires through the programme.

At the initial stage of OBE implementation, the Course Outcomes (CO) for each course are defined based on the Programme Outcome (PO) and other requirements. At the end of each course, the CO needs to be assessed and evaluated, to check whether it has been attained or not. Assessment is one or more processes, carried out by the department, that identify, collect, and prepare data to evaluate the achievement of programme educational objectives and programme Outcomes.

Attainment is the action or fact of achieving a standard result towards accomplishment of desired goals. Primarily attainment is the standard of academic attainment as observed by Internal Evaluation or examination result.

Attainment of the COs can be measured directly and indirectly.



Direct attainment basically displays the student's knowledge and skills from their performance. It can be determined from the performance of the students in all the relevant assessment instruments – like Continuous Internal Evaluation(CIE), assignments, quiz, seminars, laboratory assessments and Semester End Exam(SEE).

These methods provide a sampling of what students know and/or can do and provide strong evidence of student learning.

Initially course outcomes are defined for every course. The attainment target is set at the beginning of the semester. Three Internal assessments (IA) are conducted which covers all CO. Each Question in the IA test is mapped with respective CO. All IA are assessed for finding CO attainment using Rubrics. Similarly Average Attainment is calculated for SEE. The Technical Seminars, Project and Internship are also mapped with PO/PSO and rubrics are framed to measure the attainments.

The various tools which are used in Direct attainment are listed below.

Table.3.2.1.1: Tools for Direct Assessment of CO

SI.	Direct	Tr
		Description
NO	Assessment	
	for CO	
1		According to VTU regulations CIE Marks in each theory Course shall be the sum of marks prescribed for test and assignment. Marks prescribed for
		test shall be 30 and that for assignment is 10. The CIE marks for test in a
	Continuous	theory Course shall be based on three tests generally conducted at the end of fifth, tenth and fourteenth week of each semester. Each test shall be
	Internal	*
	Evaluation (CIE)	conducted for a maximum of 30 marks and the final marks shall be the average of three tests. The remaining 10 marks shall be awarded based on
	(012)	the evaluation of Assignments/Unit tests/written Quizzes that support to
		cover some of the Course/program outcomes. Final CIE marks awarded
		shall be the sum of these two out of maximum of 40 marks.
2	Lab	According to VTU regulations In the case of a Practical, the CIE marks
	Assessment	shall be based on the laboratory journals/ records (30 Marks on continuous
		evaluation based on conduct of experiment, viva and report writing) and
		one practical test (10 Marks) to be conducted at the end of the semester.
3	Seminars	According to VTU regulations for Technical seminar, the CIE marks shall
		be 100.
		The CIE marks in the case of seminars in the final year shall be based on
		the evaluation at the end of VIII semester by a committee consisting of the
		Head of the concerned Department and two senior faculty members of the
		Department, one of whom shall be the seminar guide.
		Seminar topic shall be selected from the emerging technical areas only.

final year shall be based on the evaluation at the end of VIII semester by a committee consisting of the Head of the concerned Department and two senior faculty members of the Department, one of whom shall be the project guide. Project work shall preferably be batch wise, the strength of each batch shall not exceed a minimum of four students Project Work consists of 2 Phases , Phase-I, Phase-II, The CIE marks awarded for project work phase -1 and Phase-II, Report, Project Presentation of project work in phase -1 and Phase-II, Report, Project Presentation skill and Question and Answer session Viva-voce examination in project work shall be conducted batch-wise. Semester End University covering the entire Course Syllabus. For this purpose, Syllabi to be modularized and SEE questions to be set from each module, with a choice confined to the concerned module only. SEE is also termed as University examination For a pass in a theory Course, the student shall secure minimum of 35% of	6/23, 10):12 AM	Print
n (SEE University examination For a pass in a theory Course, the student shall secure minimum of 35% of the maximum marks prescribed in the University examination and in total 40% of the maximum marks (i.e., prescribed for SEE and CIE) including the CIE marks secured by the student Practical examination Internship Internship According to VTU regulations the Internship shall be completed during the period specified in the Scheme of Teaching andExaminations. 1) The internship shall preferably be at a industryand R and D organization/IT company/ Government organization of significant repute for a specified period as mentioned in Scheme of Teaching andExaminations. 2. The Department/college	4	Project Semester End	According to VTU regulations The CIE marks in the case of projects in the final year shall be based on the evaluation at the end of VIII semester by a committee consisting of the Head of the concerned Department and two senior faculty members of the Department, one of whom shall be the project guide. Project work shall preferably be batch wise, the strength of each batch shall not exceed a minimum of four students Project Work consists of 2 Phases , Phase-I, Phase-II, The CIE marks awarded for project work phase -1 and Phase-II shall be based on the evaluation of project work in phase -1 and Phase-II, Report, Project Presentation skill and Question and Answer session Viva-voce examination in project work shall be conducted batch-wise. According to VTU regulations SEE examinations is conducted by the University covering the entire Course Syllabus. For this purpose, Syllabit or
6 Practical examination 8 Internship According to VTU regulations the Internship shall be completed during the period specified in the Scheme of Teaching andExaminations. 1) The internship shall preferably be at a industryand R and D organization/IT company/ Government organization of significant repute for a specified period as mentioned in Scheme of Teaching andExaminations. 2. The Department/college		n (SEE	choice confined to the concerned module only. SEE is also termed as University examination For a pass in a theory Course, the student shall secure minimum of 35% of the maximum marks prescribed in the University examination and in total 40% of the maximum marks (i.e., prescribed for SEE and CIE) including
8 Internship According to VTU regulations the Internship shall be completed during the period specified in the Scheme of Teaching andExaminations. 1) The internship shall preferably be at a industryand R and D organization/IT company/ Government organization of significant repute for a specified period as mentioned in Scheme of Teaching andExaminations. 2. The Department/college	6		There shall be 40 marks for CIE and 60 marks for SEE. The minimum
organization/IT company/ Government organization of significant repute for a specified period as mentioned in Scheme of Teaching andExaminations. 2. The Department/college	8		According to VTU regulations the Internship shall be completed during the period specified in the Scheme of Teaching and Examinations.
The students shall report progress of the internship to the Guide in regular intervals and seek his/her advice. The Guide shall maintain the progress record of the candidates undergoinginternship. 4. After the completion of Internship, students shall submit a report with completion certificate and attendance certificate to the Head of the Department with the approval of both internal and externalGuides. 5. There shall be 40 marks for CIE and 60 marks for SEE. The minimum requirement of CIE marks shall be 50% of the maximummarks.			The Department/college shall nominate staff member/s to facilitate, Guide and supervise students underinternship. 3. The students shall report progress of the internship to the Guide in regular intervals and seek his/her advice. The Guide shall maintain the progress record of the candidates undergoinginternship. 4. After the completion of Internship, students shall submit a report with completion certificate and attendance certificate to the Head of the Department with the approval of both internal and externalGuides. 5. There shall be 40 marks for CIE and 60 marks for SEE. The minimum requirement of CIE marks

Indirect attainment

Indirect attainment methods such as course surveys are conducted which reflect on the students learning. They assess opinions or thoughts about the student's knowledge or skills.

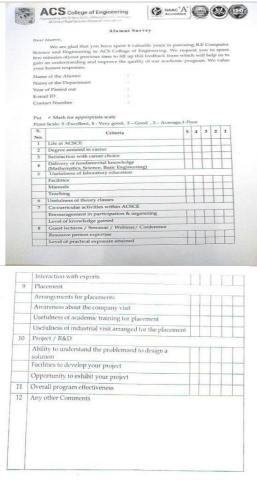
The various tools which are used in Indirect CO attainment are listed below.

Table.3.2.1.2: Tools for Indirect Assessment of CO

S.NO	Indirect Assessment	Description
	Method	

1	Student Exit Survey	The Exit survey is the feedback collected from graduating students who are at the end of the final semester of graduation. The Survey consists of questionnaires which are further mapped to PO.
2	Alumni Survey	The Alumni Survey is designed to give the information is used to improve the college experience for future students by identifying strengths in our programs as well as areas that need further development.
3	Parents' survey	The feedback is taken from the parents and their suggestions are considered
4	Employers' Survey	With the Corporate insight, the graduates' skills, capabilities, performance with other employees of the organization is collected through employer feedback.

For every course, the target is set based on the course complexity and previous year results. Targets are set for the CIE and SEE. CIE is evaluated based on the students' performance in Internals, assignments and other activities. Indirect CO attainment is calculated based on the Course exit survey. In order to calculate the final CO attainment for a course, 80% of Direct attainment and 20% of Indirect attainment attainment attainment.



<u>Direct CO Attainment: Continuous Internal Assessment/ Semester End Exam/ Assignment</u>

Following procedure is followed for calculation of course outcomes attainment using MS Excel Tool:-

Signature

Program shall have set Course Outcome attainment levels for all courses.

Measuring Course Outcomes attained through University Examinations Target may be stated in terms of percentage of students getting more than the university average marks or more as selected by the Program in the final examination.

Attainment Level 1: 60% students scoring more than University average percentage marks or set attainment level in the final examination.

Attainment Level 2: 70% students scoring more than University average percentage marks or set attainment level in the final examination.

Attainment Level 3: 80% students scoring more than University average percentage marks or set attainment level in the final examination.

Attainment is measured in terms of actual percentage of students getting set percentage of marks.

If targets are achieved then all the course outcomes are attained for that year. Program is expected to set higher targets for the following years as a part of continuous improvement.

If targets are not achieved the program should put in place an action plan to attain the target in subsequent years.

Measuring CO attainment through Internal Assessments:

Target may be stated in terms of percentage of students getting more than class average marks or set by the program in each of the associated COs in the assessment instruments (tests, assignments, etc. as mapped with the COs)

Attainment Level 1: 60% students scoring more than 60% marks out of the relevant maximum marks.

Attainment Level 2: 70% students scoring more than 60% marks out of the relevant maximum marks.

 $Attainment\ Level\ 3:\ 80\%\ students\ scoring\ more\ than\ 60\%\ marks\ out\ of\ the\ relevant\ maximum\ marks.$

Attainment is measured in terms of actual percentage of students getting set percentage of marks.

If targets are achieved then the CO's are attained for that year. Program is expected to set higher targets for the following years as a part of continuous improvement.

If targets are not achieved the program should put in place an action plan to attain the target in subsequent years.

Course Outcome Attainment:

Attainment through University Examination: Substantial i.e. 3 Attainment through Internal Assessment: Moderate i.e. 2 Assuming 80% weightage to University examination and 20% weightage to Internal assessment, the attainment calculations will be (80% of University level) + (20% of Internal level)

Attainment of Course Outcomes:

Weightage given to SEE: 60% Weightage given to CIE:40%

CO Attainment for Continuous Internal Evaluation (CIE):

CIE Attainment = 75% IA(30 Marks) + 25% Assignments (Activities)(10 Marks)

CO Attainment for Direct Evaluation:

CO Attainment for Direct Evaluation = 40% CIE + 60% SE

Indirect CO Attainment:

Survey At the end of the course, a survey is conducted for measuring the Course Outcome attainment. Six questions are framed for every CO and students responses are recorded on a scale of 1 to 5. Weighted average for every question is computed as follows:

Weighted average= ((No. of students given rating as 5) + (No. of students given rating as 4) + (No. of students given rating as 3) + (No. of stude

For any CO, the Average of Weighted average of all Six questions is taken. % of Attainment = (Weighted Average for CO /6) * 100

Attainment % is then normalized on a scale of 3.

Faculty: Mr. NAGESH H B
Subject: ANALOG CIRCUITS

Subject Code: 18EC42 (2020-21-EVEN)

ASSIGN	MENT	DETAILS

		Test		Assignment1 Assignment2										Assignment3								
	Student Name	Q. No.	1	2	3	4	5	1	2	3	4	5	1	2	3	4						
USN	State at 1 table	CO's	C242.1,C242.2			C242.1,C242.2	_	C242.2,C242.3	C242.2,C242.3		C242.2,C242.3		C242.4,C242.5			C242.4,C242.5						
1AH19EC001	AMITH DEEPAK PAWAR		2	2	2	2	2	2	2	2	2	2	2	2	2	2						
1AH19EC003	CHANDAN G B		2	2	2	2	2	2	2	2	2	2	2	2	2	2						
1AH19EC004	CHETHANA M NIJAGULI		2	2	2	2	2	2	2	2	2	2	2	2	2	2						
1AH18EC031	SANJAY KUMAR B K		2	2	2	2	2	2	2	2	2	2	2	2	2	2						
1AH18EC034	SUNIL KUMAR B K		2	2	2	2	2	2	2	2	2	2	2	2	2	2						
1AH18EC044	RITVOSH GHOSH		2	2	2	2	2	2	2	2	2	2	2	2	2	2						
MARKS SCORED			80	80	80	80	80	80	80	80	80	80	80	80	80	80						
	Participation		40	40	40	40	40	40	40	40	40	40	40	40	40	40						
	Maximum Aactual marks		2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0						
	80% of the actual marks (Target)		1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6						
	Students Attaining																					
	80% (Target)		40	40	40	40	40	40	40	40	40	40	40	40	40	40						
	ATTAINMENT of 80% from participation	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00							

Figure 3.3: Assignment is used for attainment calculation

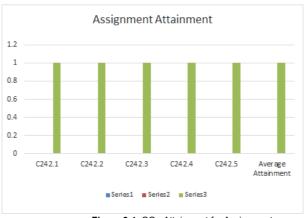


Figure 3.4: CO –Attainment for Assignment

racuity: Mr. N	AGESH H B																															
Subject: ANAL	OG CIRCUITS																															
	18EC42 (2020-21-EVI	(N)																														
										CAY 2	019-2020						Intern	al Assess	ment De	ails												
		Test					TE	ST 1							TE	ST 2											1	EST 3				
		Q. No.	1	2	3	4	- 5	6	7	8	9	10	1	2	3	4	- 5	- 6	7	8	9	10	1	2	3	- 4	- 5	6	7	8	9	10
USN	Student Name	CO's	C242.1,C242.	2 C242.1,C242.	C242.1,C242.	C242.1,C242.1	C242.1,C242.2	(242.1,(242.2	C242.1,C242.3	C242.1,C242.3	C242.1,C242.2	C242.1,C242.	C242.2,C242.	C242.2,C242	C242.2,C242.	C242.2,C242.	C242.2,C242.	C242.2,C242.5	C242.2,C242.	C242.2,C242.	C242.2,C242.	C242.2,C242.5	242.4,C24	C242.4,C242.6	C342.4,C342.	C242.4,C242.6	C242.4,C242.I	C242.4,C242.6	C242.4,C242.I	#C242.4,C242.1	C242.4,C242.6	C242.4,C242
		POS	1,2,4,5,11,12	1,2,4,5,11,12	1,2,4,5,11,12	1,2,4,5,11,12	1,2,4,5,11,12	1,2,4,5,11,12	1,2,3,4,5,11,1	1,2,3,4,5,11,6	1,2,3,4,5,11,1	11,2,3,4,5,11,1	21,2,3,4,5,11,1	21,2,3,4,5,11,1	1,2,3,4,5,11,1	1,2,3,4,5,11,1	11,2,3,4,5,11,1	1,2,3,4,5,11,12	1,2,3,4,5,11,13	1,2,3,4,5,11,1	21,2,3,4,5,11,1	1,2,3,4,5,11,12	1,2,3,4,5,1	1,2,3,4,5,11,12	21,2,3,4,5,11,1	1,2,3,4,5,11,12	1,2,3,4,5,11,1	1,2,3,4,5,11,12	1,2,3,4,5,11,1	21,2,3,4,5,11,1	21,2,3,4,5,11,12	1,2,3,4,5,11,12
1AH19EC001	AMITH DEEPAK PAWAR		10		9		7			10		6		10		110			9		10		10			10		10		10	- 5	
1AH19EC003	CHANDAN G B		5		9		7			5		5		10		7	10		2		10		10			10		10		10	5	
1AH19EC004	CHETHANA M NUAGULI		10		10		9		10		10			10	10		6		10		10		10			10		10		10	10	
1AH18EC031	SANIAY KUMAR B K		9					5						10			10		5			10	10			10		10		10	4	i .
1AH18EC034	SUNIL KUMAR 8 K			10	9		6			5				10			10		- 5			10	10			10		10		10	6	
1AH18EC044	RITVOSH GHOSH	1	7	0	9		6	0	5					8		10	7		5	1	10		10	- 1	- 1	10	1	10	1	10	7	$\overline{}$
	MARKS SCORED		269	114	249	0	282	5	88	229	60	139	37	341	85	368	302	28	268	1	296	65	400	1	1	400	1	400	1	400	271	0
	Participation		31	13	27	0	36	2	10	27	6	23	4	35	10	28	36	4	38	1	31	9	40	1	1	40	1	40	1	40	39	0
λ	faximum Aactual marks		10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
80% of the actual marks (Target)		8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	
	Students Attaining 90% (Target)		26	10	24	0	17	0	7	19	6	2	3	32	6	23	25	2	15	0	29	4	40	0	0	40	0	40	0	40	13	0
ATTAINMENT of 90% from participation		0.84	0.77	0.89	0.00	0.47	0.00	0.70	0.70	1.00	0.09	0.75	0.91	0.60	0.82	0.69	0.50	0.39	0.00	0.94	0.44	1.00	0.00	0.00	1.00	0.00	1.00	0.00	1.00	0.33	0.00	

Figure 3.5: CIE is used for calculation of attainment

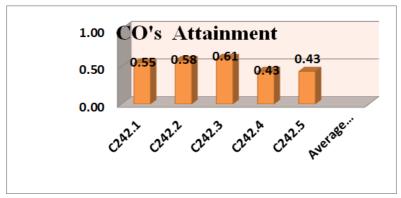


Figure 3.6: CO Attainment based on CIE and assignment

 $\textbf{3.2.2 Record the attainment of Course Outcome of all courses with respect to set attainment levels } \\ (40)$

Institute Marks: 40.00

Record the attainment of Course Outcome of all courses with respect to set attainment levels

Course	CO Attainment Level	CO %				
C111	1.81	60.33				
C112	1.89	63				
C113	1.85	61.7				
C114	1.89	63				
C115	2.1	70				
C116	2.49	83				
C117	2.44	81.3				
C118	2.11	70.3				
C121	1.83	61				
C122	1.9	63.3				
C123	1.64	54.7				
C124	1.84	61.3				
C125	1.81	60.3				
C126	2.31	77				
C127	2.43	81				
C128	2.23	74.3				
C231	1.85	61.67				
C232	2.10	70				
C233	1.80	60				
C234	2.13	71				
C235	2.10	70				
C236	2.10	70				
C237	2.16	72				
C238	2.4	80				
C239	2.34	78				

C241	1.92	64
C242	2.28	76
C243	2.25	75
C244	2.10	70
C245	2.31	77
C246	1.95	65
C247	2.43	81
C248	2.40	80
C351	2.79	93
C352	2.40	80
C353	2.91	97
C354	2.55	85
C355	2.43	81
C356	2.28	76
C357	2.31	77
C358	2.28	76
C359	1.56	52
C361	2.25	75
C362	2.10	70
C363	2.79	93
C3643	2.88	96
C3653	2.10	70

C366	2.10	70		
C367	2.19	73		
C368	2.25	75		
C471	2.52	84		
C472	2.55	85		
C4734	2.67	89		
C4744	2.70	90		
C4753	1.95	65		
C476	1.89	63		
C477	2.49	83		
C481	2.73	91		
C4823	2.49	83		
C483	2.40	80		
C484	2.58	86		
C485	2.49	83		

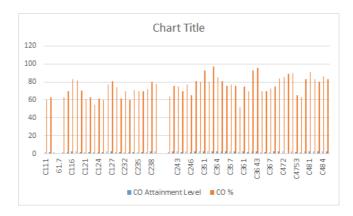


Figure 3.7 : CO attainment

3.3 Attainment of Program Outcomes and Program Specific Outcomes (50)

Total Marks 50

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: 10

POs describe what students should know and be able to do at the end of the programme. Students are required to attain all the Program Outcomes by the end of the program through Direct and Indirect assessment tools. Attainment of Program Outcomes gives the performance of a student.

There are two factors that contribute towards attainment of program Outcomes; they are Direct method and

Indirect method.

The Process used for measuring the Attainment of each of the POs and PSOs and the tools used is shown in Figure .3.8

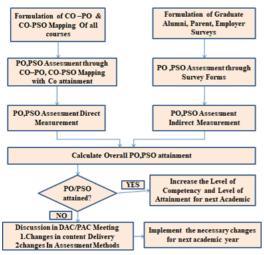


Figure 3.8: The Process of Direct Assessment tools used for measuring the attainment of PO/PSO

To know the effectiveness of the delivery, Continuous Internal Evaluation (CIE) is conducted on a regular basis for theory and laboratory subjects. The University will conduc examinations (SEE) every semester for theory and laboratory. VTU 2018-2019 scheme of evaluation follows 60 marks for SEE and 40 marks for CIE

Direct Method:

D:-- -+ I--+----- | A - - - ---- (400/)

Faculty: Mr. NAGESH H B

Subject: ANALOG CIRCUITS 3 = Above Average

Subject Code: 18EC42(2020-21-EVEN) 2 = Average

CO Attainment 1 = Below Average

	Direct Internal Assesment (40%)						Direct External Assessment (60%)							
COs	A IA Marks (100%)	B 40% of A					D External Marks (100%)	E = 60% of D				G=C+F		
C0_1	0.77	0.31					1.00	0.60				0.77		
C0_2	0.79	0.32					1.00	0.60				0.79		
C0_3	0.80	0.32					1.00	0.60				0.80		
C0_4	0.72	0.29					1.00	0.60				0.72		
C0_5	0.72	0.29					1.00	0.60				0.72		
Average												0.76		
CO-PO Map	ping													
	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10	PO-11	PO-12	PSO1	PSO2
CO-1	2	3	1	2	1						2	1	2	1
CO-2	2	3	2	1	1						2	1	2	1
CO-3	3	3	1	1	2						2	1	2	1
CO-4	2	3	1	2	1						2	1	2	1
CO-5	2	3	2	1	1						2	1	2	1

Figure 3.9:Calculation of Attainment using both CIE and SEE marks

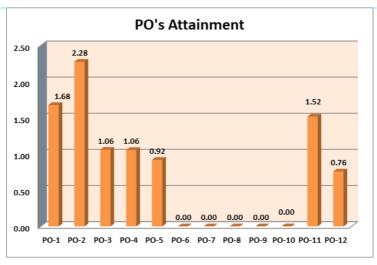


Figure 3.10: Attainment of PO's

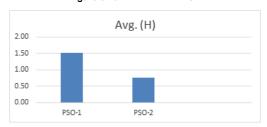


Figure 3.11: Attainment of PSO's

Indirect assessment methods such as surveys by the stakeholders to reflect on the students learning. They assess opinions or thoughts about the graduate's knowledge c skills and they are valued by different stakeholders.

Indirect assessment tools are listed below.

- Student Exit Survey
- Alumni Feedback Survey
- Parents Feedback Survey
- Employers Feedback Survey

Figure 3.12: Indirect Assessment Tools used for measuring the attainment of PO /PSO

The Indirect Assessment Tools, their description and the frequency of conduction is listed as below:

S.NO	Indirect Assessment Method	Description	Frequency
1	Student Exit Survey	The Exit survey is the feedback collected from graduating students who are at the end of the final semester of graduation. The Survey consists of questionnaires which are further mapped to PO.	End of VIII semester
		This type of survey can also point to areas in which the institution should invest more or less resources to enhance	

		a students learning and development experience.	
2	Alumni Survey	The Alumni Survey is designed to give the information is used to improve the college experience for future students by identifying strengths in our programs as well as areas that need further development. The survey includes issues relating to satisfaction regarding academic programs, intellectual and personal growth, student services, and preparation for a career.	Once in Year
3	Parents' survey	The feedback is taken from the parents and them suggestions are considered to improve the infrastructure facilities, quality of education, placement activities.	Once in Year

4	Employers'			Corporate , performanc	0 ,		graduates' ployees of th	skills, e	Once in Year
	Survey	organi	izatio	n is collected	l through e	emplo	yer feedback		

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

Institute Marks: 40.00

PO Attainment

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C111	2.13	2.14	2.34	2.15	PO5	PO6	P07	PO8	PO9	PO10	PO11	PO12
C112	2.1	2.3	1.9	1.5	PO5	PO6	P07	PO8	PO9	PO10	PO11	PO12
C113	1.68	1.68	1.68	0.84	0.42	PO6	P07	P08	PO9	PO10	PO11	0.42
C114	2.14	2.13	2.34	2.14	PO5	PO6	P07	PO8	PO9	PO10	PO11	PO12
C115	1.34	2.13	2.14	2.13	PO5	PO6	P07	P08	PO9	PO10	PO11	PO12
C116	2.3	2.1	2.2	2.3	2.1	2.5	2.6	2.7	2.1	2.7	2.4	2.1
C117	1.67	2.01	2.1	2.4	1.7	2.2	2.3	2.5	2.3	2.5	2.6	2.4
C118	PO1	PO2	PO3	PO4	PO5	PO6	P07	PO8	2.1	2.3	PO11	2.1
C121	2.56	1.89	1.34	2.13	PO5	PO6	P07	PO8	PO9	PO10	PO11	PO12
C122	2.3	2.1	2.2	2.3	2.1	2.32	2.6	P08	PO9	PO10	PO11	PO12
C123	1.34	1.45	1.67	PO4	PO5	PO6	P07	P08	PO9	PO10	PO11	PO12
C124	2.1	1.9	1.2	2.3	2.2	PO6	P07	P08	PO9	PO10	PO11	PO12
C125	2.13	2.14	2.15	2.16	2.09	PO6	P07	P08	PO9	PO10	PO11	PO12
C126	2.13	2.14	2.14	2.3	2.4	PO6	P07	2.1	2.19	2.2	2.15	1.9
C127	1.56	1.35	2.13	1.89	2.13	PO6	P07	2.1	2.7	2.2	2.8	2.1
C128	PO1	PO2	PO3	PO4	PO5	PO6	P07	P08	2.1	2.3	PO11	2.1
C231	2.13	2.14	2.14	2.14	PO5	PO6	P07	P08	PO9	PO10	PO11	PO12
C232	1.84	2.88	2.68	2.19	2.72	PO6	P07	P08	PO9	PO10	PO11	2.39
C233	2.75	1.2	1.25	0.86	1.04	PO6	P07	P08	1.06	PO10	0.7	1.03
C234	1.61	2.2	0.73	1.03	0.88	PO6	P07	PO8	PO9	PO10	1.47	0.73
C235	1.53	2.3	1.53	0.77	1.53	PO6	P07	P08	PO9	PO10	PO11	1.53
C236	1.25	1.87	1.25	1.66	1.45	0.83	P07	P08	PO9	PO10	0.83	1.54
C237	2.14	2.15	1.67	2.3	2.1	2.5	2.1	2.6	2.2	2.1	2.6	2.6
C238	2.13	2.14	2.15	2.1	2.3	PO6	P07	2.1	1.9	1.7	2.3	2.1
C239	PO1	PO2	PO3	PO4	PO5	PO6	P07	2.5	1.7	2.4	PO11	1.9
C241	1.34	2.14	2.34	PO4	PO5	PO6	P07	P08	PO9	PO10	PO11	PO12
C242	1.68	2.28	1.06	0.92	PO5	PO6	P07	P08	PO9	PO10	1.52	0.76
C243	1.64	2.07	2.15	1.44	1.02	PO6	P07	P08	PO9	PO10	PO11	0.82
C244	1.4	2.1	2.15	1.3	PO5	PO6	P07	P08	PO9	PO10	PO11	0.7
C245	1.68	2.16	0.96	0.96	0.96	PO6	P07	PO8	PO9	PO10	1.44	0.72
C246	1.76	2.13	1.78	1.07	1.18	PO6	P07	PO8	PO9	PO10	PO11	1.42
C247	2.14	1.23	1.45	2.1	2.3	2.1	2.4	2.1	2.3	2.1	PO11	PO12
C248	2.14	2.15	2.13	2.3	2.5	PO6	P07	2.3	2.1	2.7	2.1	1.8
C351	0.96	0.96	1.67	0.96	1.92	PO6	P07	PO8	PO9	PO10	PO11	0.67
C352	1.66	2.21	1.29	1.11	0.92	PO6	P07	P08	PO9	PO10	1.48	0.74
C353	2.02	2.69	1.12	1.35	1.12	PO6	P07	P08	PO9	PO10	1.79	0.9
C354	2.02	2.69	1.12	1.35	1.12	PO6	P07	P08	PO9	PO10	1.79	0.9
C355	1.39	1.84	0.92	0.92	0.78	PO6	PO7	PO8	PO9	PO10	1.23	0.61

C356 1.46 2.19 1.46 1.33 1.46 PO6 PO7 PO8 PO9 PO10 PO11 1.45 C357 2.34 2.14 2.14 2.4 2.4 PO6 PO7 2.1 2.7 2.5 1.3 1.7 C358 2.14 2.14 2.12 1.7 2.3 PO6 PO7 1.7 2.1 2.4 2.1 2.1 C359 1.8 1.3 1.2 PO4 PO5 PO6 2.5 PO8 PO9 PO10 PO11 PO12 C361 2.03 2.7 0.68 1.35 1.13 PO6 PO7 PO8 PO9 PO10 1.8 0.9 C362 1.79 1.34 1.12 1.57 PO5 PO6 PO7 PO8 PO9 PO10 PO11 1.57 C363 1.6 2.24 0.62 1.26 PO6 PO7 PO8 PO9 PO10 PO11 <td< th=""><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th></td<>													
C358 2.14 2.14 2.12 1.7 2.3 PO6 PO7 1.7 2.1 2.4 2.1 2.1 C359 1.8 1.3 1.2 PO4 PO5 PO6 2.5 PO8 PO9 PO10 PO11 PO12 C361 2.03 2.7 0.68 1.35 1.13 PO6 PO7 PO8 PO9 PO10 1.8 0.9 C362 1.79 1.34 1.12 1.57 PO5 PO6 PO7 PO8 PO9 PO10 PO11 1.57 C363 1.64 2.24 0.9 1.19 0.9 PO6 PO7 PO8 PO9 PO10 PO11 1.57 C3842 2.24 1.86 1.24 0.62 1.26 PO6 PO7 PO8 PO9 PO10 PO11 1.24 C3653 1.2 1.7 1.5 PO4 PO5 0.51 0.43 PO8 0.5 PO10	C356	1.46	2.19	1.46	1.33	1.46	PO6	PO7	PO8	PO9	PO10	PO11	1.45
C359 1.8 1.3 1.2 PO4 PO5 PO6 2.5 PO8 PO9 PO10 PO11 PO12 C361 2.03 2.7 0.68 1.35 1.13 PO6 PO7 PO8 PO9 PO10 1.8 0.9 C362 1.79 1.34 1.12 1.57 PO5 PO6 PO7 PO8 PO9 PO10 PO11 1.57 C363 1.64 2.24 0.9 1.19 0.9 PO6 PO7 PO8 PO9 PO10 PO11 0.79 C3642 2.24 1.86 1.24 0.62 1.26 PO6 PO7 PO8 PO9 PO10 PO11 1.24 C3653 1.2 1.7 1.5 PO4 PO5 0.51 0.43 PO8 0.5 PO10 PO11 PO12 C366 2.13 1.14 1.23 2.1 2.3 PO6 PO7 1.8 1.8 1.6	C357	2.34	2.14	2.14	2.4	2.4	PO6	PO7	2.1	2.7	2.5	1.3	1.7
C381 2.03 2.7 0.68 1.35 1.13 PO6 PO7 PO8 PO9 PO10 1.8 0.9 C362 1.79 1.34 1.12 1.57 PO5 PO6 PO7 PO8 PO9 PO10 PO11 1.57 C363 1.64 2.24 0.9 1.19 0.9 PO6 PO7 PO8 PO9 PO10 PO11 0.79 C36342 2.24 1.86 1.24 0.62 1.26 PO6 PO7 PO8 PO9 PO10 PO11 1.24 C3653 1.2 1.7 1.5 PO4 PO5 0.51 0.43 PO8 0.5 PO10 PO11 1.24 C366 2.13 1.14 1.23 2.1 2.3 PO6 PO7 1.8 1.8 1.6 1.9 1.4 C367 1.23 1.34 1.78 2.13 2.2 PO6 PO7 1.8 2.6 2.1	C358	2.14	2.14	2.12	1.7	2.3	PO6	PO7	1.7	2.1	2.4	2.1	2.1
C362 1.79 1.34 1.12 1.57 POS PO6 PO7 PO8 PO9 PO10 PO11 1.57 C363 1.64 2.24 0.9 1.19 0.9 PO6 PO7 PO8 PO9 PO10 PO11 0.79 C3642 2.24 1.86 1.24 0.62 1.26 PO6 PO7 PO8 PO9 PO10 PO11 0.79 C3635 1.2 1.7 1.5 PO4 PO5 0.51 0.43 PO8 0.5 PO10 PO11 1.24 C366 2.13 1.14 1.23 2.1 2.3 PO6 PO7 1.8 1.8 1.6 1.9 1.4 C367 1.23 1.34 1.78 2.13 2.2 PO6 PO7 PO8 PO9 PO10 PO11 PO12 C371 1.99 2.71 1.08 1.45 PO5 PO6 PO7 PO8 PO9 PO10	C359	1.8	1.3	1.2	PO4	PO5	P06	2.5	PO8	PO9	PO10	PO11	PO12
C363 1.64 2.24 0.9 1.19 0.9 PO6 PO7 PO8 PO9 PO10 PO11 0.79 C3642 2.24 1.86 1.24 0.62 1.26 PO6 PO7 PO8 PO9 PO10 PO11 1.24 C3653 1.2 1.7 1.5 PO4 PO5 0.51 0.43 PO8 0.5 PO10 PO11 PO12 C366 2.13 1.14 1.23 2.1 2.3 PO6 PO7 1.8 1.8 1.6 1.9 1.4 C367 1.23 1.34 1.78 2.13 2.2 PO6 PO7 2.8 2.6 2.1 2.4 2.1 C368 2.3 1.5 2.45 1.45 PO5 PO6 PO7 PO8 PO9 PO10 PO11 PO12 C371 1.99 2.71 1.08 1.45 1.09 PO6 PO7 PO8 PO9 PO10	C361	2.03	2.7	0.68	1.35	1.13	PO6	PO7	PO8	PO9	PO10	1.8	0.9
C3642 2.24 1.86 1.24 0.62 1.26 PO6 PO7 PO8 PO9 PO10 PO11 1.24 C3653 1.2 1.7 1.5 PO4 PO5 0.51 0.43 PO8 0.5 PO10 PO11 PO12 C366 2.13 1.14 1.23 2.1 2.3 PO6 PO7 1.8 1.8 1.6 1.9 1.4 C367 1.23 1.34 1.78 2.13 2.2 PO6 PO7 2.8 2.6 2.1 2.4 2.1 C368 2.3 1.5 2.45 1.45 PO5 PO6 PO7 PO8 PO9 PO10 PO11 PO12 C371 1.99 2.71 1.08 1.45 1.09 PO6 PO7 PO8 PO9 PO10 PO11 PO12 C372 1.56 2.14 2.34 1.56 PO5 PO6 PO7 PO8 PO9 PO10	C362	1.79	1.34	1.12	1.57	PO5	PO6	PO7	PO8	PO9	PO10	PO11	1.57
C3653 1.2 1.7 1.5 PO4 PO5 0.51 0.43 PO8 0.5 PO10 PO11 PO12 C366 2.13 1.14 1.23 2.1 2.3 PO6 PO7 1.8 1.8 1.6 1.9 1.4 C367 1.23 1.34 1.78 2.13 2.2 PO6 PO7 2.8 2.6 2.1 2.4 2.1 C368 2.3 1.5 2.45 1.45 PO5 PO6 PO7 PO8 PO9 PO10 PO11 PO12 C371 1.99 2.71 1.08 1.45 1.09 PO6 PO7 PO8 PO9 PO10 PO11 PO12 C372 1.56 2.14 2.34 1.56 PO5 PO6 PO7 PO8 PO9 PO10 PO11 PO12 C3733 1.34 1.24 2.13 2.1 PO5 PO6 PO7 PO8 PO9 PO10	C363	1.64	2.24	0.9	1.19	0.9	P06	P07	PO8	PO9	PO10	PO11	0.79
C366 2.13 1.14 1.23 2.1 2.3 PO6 PO7 1.8 1.8 1.6 1.9 1.4 C367 1.23 1.34 1.78 2.13 2.2 PO6 PO7 2.8 2.6 2.1 2.4 2.1 C368 2.3 1.5 2.45 1.45 PO5 PO6 PO7 PO8 PO9 PO10 PO11 PO12 C371 1.99 2.71 1.08 1.45 1.09 PO6 PO7 PO8 PO9 PO10 PO11 PO12 C372 1.56 2.14 2.34 1.56 PO5 PO6 PO7 PO8 PO9 PO10 PO11 PO12 C3733 1.34 1.24 2.13 2.1 PO5 PO6 PO7 PO8 PO9 PO10 PO11 PO12 C3733 1.99 2.71 1.08 1.45 1.09 PO6 PO7 PO8 PO9 PO10	C3642	2.24	1.86	1.24	0.62	1.26	PO6	P07	PO8	PO9	PO10	PO11	1.24
C367 1.23 1.34 1.78 2.13 2.2 PO6 PO7 2.8 2.6 2.1 2.4 2.1 C368 2.3 1.5 2.45 1.45 PO5 PO6 PO7 PO8 PO9 PO10 PO11 PO12 C371 1.99 2.71 1.08 1.45 1.09 PO6 PO7 PO8 PO9 PO10 PO11 PO12 C372 1.56 2.14 2.34 1.56 PO5 PO6 PO7 PO8 PO9 PO10 PO11 PO12 C3733 1.34 1.24 2.13 2.1 PO5 PO6 PO7 PO8 PO9 PO10 PO11 PO12 C3743 1.99 2.71 1.08 1.45 1.09 PO6 PO7 PO8 PO9 PO10 1.81 0.9 C376 1.7 2.1 1.9 1.45 1.3 1.38 PO7 PO8 PO9 PO9	C3653	1.2	1.7	1.5	PO4	PO5	0.51	0.43	PO8	0.5	PO10	PO11	PO12
C368 2.3 1.5 2.45 1.45 PO5 PO6 PO7 PO8 PO9 PO10 PO11 PO12 C371 1.99 2.71 1.08 1.45 1.09 PO6 PO7 PO8 PO9 PO10 PO11 PO12 C372 1.56 2.14 2.34 1.56 PO5 PO6 PO7 PO8 PO9 PO10 PO11 PO12 C3733 1.34 1.24 2.13 2.1 PO5 PO6 PO7 PO8 PO9 PO10 PO11 PO12 C3743 1.99 2.71 1.08 1.45 1.09 PO6 PO7 PO8 PO9 PO10 PO11 PO12 C3743 1.99 2.71 1.08 1.45 1.3 1.38 PO7 PO8 PO9 PO10 1.81 0.9 C376 1.7 2.1 1.9 1.45 1.3 1.38 PO7 PO8 PO9 0.9	C366	2.13	1.14	1.23	2.1	2.3	PO6	P07	1.8	1.8	1.6	1.9	1.4
C371 1.99 2.71 1.08 1.45 1.09 PO6 PO7 PO8 PO9 PO10 PO11 PO12 C372 1.56 2.14 2.34 1.56 PO5 PO6 PO7 PO8 PO9 PO10 PO11 PO12 C3733 1.34 1.24 2.13 2.1 PO5 PO6 PO7 PO8 PO9 PO10 PO11 PO12 C3743 1.99 2.71 1.08 1.45 1.09 PO6 PO7 PO8 PO9 PO10 1.81 0.9 C376 1.7 2.1 1.9 1.45 1.3 1.38 PO7 PO8 PO9 PO9 0.73 0.56 C377 1.7 2.1 1.9 1.45 1.3 1.38 PO7 PO8 PO9 0.9 0.73 0.56 C4753 2.14 1.8 1.8 PO4 PO5 PO6 PO7 PO8 PO9 PO10	C367	1.23	1.34	1.78	2.13	2.2	PO6	PO7	2.8	2.6	2.1	2.4	2.1
C372 1.56 2.14 2.34 1.56 PO5 PO6 PO7 PO8 PO9 PO10 PO11 PO12 C3733 1.34 1.24 2.13 2.1 PO5 PO6 PO7 PO8 PO9 PO10 PO11 PO12 C3743 1.99 2.71 1.08 1.45 1.09 PO6 PO7 PO8 PO9 PO10 PO11 PO12 C376 1.7 2.1 1.9 1.45 1.3 1.38 PO7 PO8 PO9 0.9 0.73 0.56 C377 1.7 2.1 1.9 1.45 1.3 1.38 PO7 PO8 PO9 0.9 0.73 0.56 C4753 2.14 1.8 1.8 PO4 PO5 PO6 PO7 PO8 PO9 PO10 PO11 PO12 C478 2.5 2.34 2.2 1.65 1.35 1.73 1.02 1.54 2.1 2.47	C368	2.3	1.5	2.45	1.45	PO5	P06	P07	PO8	PO9	PO10	PO11	PO12
C3733 1.34 1.24 2.13 2.1 PO5 PO6 PO7 PO8 PO9 PO10 PO11 PO12 C3743 1.99 2.71 1.08 1.45 1.09 PO6 PO7 PO8 PO9 PO10 1.81 0.9 C376 1.7 2.1 1.9 1.45 1.3 1.38 PO7 PO8 PO9 0.9 0.73 0.56 C377 1.7 2.1 1.9 1.45 1.3 1.38 PO7 PO8 PO9 0.9 0.73 0.56 C4753 2.14 1.8 1.8 PO4 PO5 PO6 PO7 PO8 PO9 PO10 PO11 PO12 C478 2.5 2.34 2.2 1.65 1.35 1.73 1.02 1.54 2.1 2.47 2.01 1.63 C481 1.76 2.36 0.6 1.18 0.98 PO6 PO7 PO8 PO9 PO10	C371	1.99	2.71	1.08	1.45	1.09	PO6	P07	PO8	PO9	PO10	PO11	PO12
C3743 1.99 2.71 1.08 1.45 1.09 PO6 PO7 PO8 PO9 PO10 1.81 0.9 C376 1.7 2.1 1.9 1.45 1.3 1.38 PO7 PO8 PO9 0.9 0.73 0.56 C377 1.7 2.1 1.9 1.45 1.3 1.38 PO7 PO8 PO9 0.9 0.73 0.56 C4753 2.14 1.8 1.8 PO4 PO5 PO6 PO7 PO8 PO9 PO10 PO11 PO12 C478 2.5 2.34 2.2 1.65 1.35 1.73 1.02 1.54 2.1 2.47 2.01 1.63 C481 1.76 2.36 0.6 1.18 0.98 PO6 PO7 PO8 PO9 PO10 1.57 0.8 C4824 1.89 2.51 1.23 1.25 1.06 PO6 PO7 PO8 PO9 PO10	C372	1.56	2.14	2.34	1.56	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C376 1.7 2.1 1.9 1.45 1.3 1.38 PO7 PO8 PO9 0.9 0.73 0.56 C377 1.7 2.1 1.9 1.45 1.3 1.38 PO7 PO8 PO9 0.9 0.73 0.56 C4753 2.14 1.8 1.8 PO4 PO5 PO6 PO7 PO8 PO9 PO10 PO11 PO12 C478 2.5 2.34 2.2 1.65 1.35 1.73 1.02 1.54 2.1 2.47 2.01 1.63 C481 1.76 2.36 0.6 1.18 0.98 PO6 PO7 PO8 PO9 PO10 1.57 0.8 C4824 1.89 2.51 1.23 1.25 1.06 PO6 PO7 PO8 PO9 PO10 1.67 0.84 C483 2.3 2.1 2.4 2.1 2.6 2.1 2.6 2.1 2.3 1.8	C3733	1.34	1.24	2.13	2.1	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C377 1.7 2.1 1.9 1.45 1.3 1.38 PO7 PO8 PO9 0.9 0.73 0.56 C4753 2.14 1.8 1.8 PO4 PO5 PO6 PO7 PO8 PO9 PO10 PO11 PO12 C478 2.5 2.34 2.2 1.65 1.35 1.73 1.02 1.54 2.1 2.47 2.01 1.63 C481 1.76 2.36 0.6 1.18 0.98 PO6 PO7 PO8 PO9 PO10 1.57 0.8 C4824 1.89 2.51 1.23 1.25 1.06 PO6 PO7 PO8 PO9 PO10 1.67 0.84 C483 2.3 2.1 2.4 2.1 2.6 2.1 2.6 2.1 2.3 1.8 2.1 2.4 1.9 C484 2.4 2.1 2.6 2.1 2.6 2.1 2.1 2.1 2.4	C3743	1.99	2.71	1.08	1.45	1.09	PO6	PO7	PO8	PO9	PO10	1.81	0.9
C4753 2.14 1.8 1.8 PO4 PO5 PO6 PO7 PO8 PO9 PO10 PO11 PO12 C478 2.5 2.34 2.2 1.65 1.35 1.73 1.02 1.54 2.1 2.47 2.01 1.63 C481 1.76 2.36 0.6 1.18 0.98 PO6 PO7 PO8 PO9 PO10 1.57 0.8 C4824 1.89 2.51 1.23 1.25 1.06 PO6 PO7 PO8 PO9 PO10 1.67 0.84 C483 2.3 2.1 2.4 2.1 2.6 2.1 2.6 2.1 2.3 1.8 2.1 2.1 C484 2.4 2.1 2.6 2.1 2.3 2.1 2.4 1.9	C376	1.7	2.1	1.9	1.45	1.3	1.38	P07	PO8	PO9	0.9	0.73	0.56
C478 2.5 2.34 2.2 1.65 1.35 1.73 1.02 1.54 2.1 2.47 2.01 1.63 C481 1.76 2.36 0.6 1.18 0.98 PO6 PO7 PO8 PO9 PO10 1.57 0.8 C4824 1.89 2.51 1.23 1.25 1.06 PO6 PO7 PO8 PO9 PO10 1.67 0.84 C483 2.3 2.1 2.4 2.1 2.6 2.1 2.6 2.1 2.3 1.8 2.1 2.1 C484 2.4 2.1 2.6 2.1 2.3 1.9 2.1 2.1 2.4 1.9	C377	1.7	2.1	1.9	1.45	1.3	1.38	PO7	PO8	PO9	0.9	0.73	0.56
C481 1.76 2.36 0.6 1.18 0.98 PO6 PO7 PO8 PO9 PO10 1.57 0.8 C4824 1.89 2.51 1.23 1.25 1.06 PO6 PO7 PO8 PO9 PO10 1.67 0.84 C483 2.3 2.1 2.4 2.1 2.6 2.1 2.6 2.1 2.3 1.8 2.1 2.1 C484 2.4 2.1 2.6 2.1 2 2.3 2.7 1.9 2.1 2.1 2.4 1.9	C4753	2.14	1.8	1.8	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C4824 1.89 2.51 1.23 1.25 1.06 PO6 PO7 PO8 PO9 PO10 1.67 0.84 C483 2.3 2.1 2.4 2.1 2.6 2.1 2.6 2.1 2.3 1.8 2.1 2.1 C484 2.4 2.1 2.6 2.1 2 2.3 2.7 1.9 2.1 2.1 2.4 1.9	C478	2.5	2.34	2.2	1.65	1.35	1.73	1.02	1.54	2.1	2.47	2.01	1.63
C483 2.3 2.1 2.4 2.1 2.6 2.1 2.6 2.1 2.3 1.8 2.1 2.1 C484 2.4 2.1 2.6 2.1 2 2.3 2.7 1.9 2.1 2.1 2.4 1.9	C481	1.76	2.36	0.6	1.18	0.98	PO6	P07	PO8	PO9	PO10	1.57	0.8
C484 2.4 2.1 2.6 2.1 2 2.3 2.7 1.9 2.1 2.1 2.4 1.9	C4824	1.89	2.51	1.23	1.25	1.06	P06	P07	PO8	PO9	PO10	1.67	0.84
	C483	2.3	2.1	2.4	2.1	2.6	2.1	2.6	2.1	2.3	1.8	2.1	2.1
C4105 24 24 22 40 24 22 24 24 25 24 22 22	C484	2.4	2.1	2.6	2.1	2	2.3	2.7	1.9	2.1	2.1	2.4	1.9
04100 2.1 2.1 2.3 1.9 2.1 2.3 2.1 2.1 2.3 2.1	C4I85	2.1	2.1	2.3	1.9	2.1	2.3	2.1	2.1	2.5	2.1	2.3	2.2

PO Attainment Level

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO Attainment	1.78	1.93	1.63	1.62	1.64	1.71	2.00	2.02	1.88	2.02	1.66	1.46
Direct Attainment	1.87	2.01	1.71	1.65	1.62	1.86	2.12	2.18	2.07	2.10	1.80	1.40
InDirect Attainment	1.4	1.6	1.3	1.5	1.7	1.1	1.5	1.4	1.1	1.7	1.1	1.7

PSO Attainment

Course	PSO1	PSO2
C111	2.1	2.3
C112	1.6	1.6
C113	2.1	2.3
C114	2.3	2.1
C115	2.2	2.1
C116	2.1	2.2
C117	2.3	2.1
C118	0.0	0.51
C121	2.3	2.1
C122	2.1	1.9
C123	2.0	2.1
C124	1.9	2.1
C125	2.1	2.1
C126	2.3	1.8
C127	1.9	1.8
C228	0.0	0.51

0004	40	40
C231	1.9	1.9
C232	2.1	2.3
C233	1.4	0.7
C234	1.47	2.20
C235	0.77	1.53
C236	1.66	1.66
C237	2.3	2.4
C238	2.1	2.3
C239	0.0	0.51
C241	1.6	1.8
C242	1.52	0.76
C243	1.64	1.64
C244	1.65	1.38
C245	1.44	0.72
C246	1.42	1.42
C247	2.5	2.4
C248	2.3	2.1
C351	1.92	1.92
C352	1.48	0.74
C353	1.79	1.79
C354	2.1	2.1
C355	1.23	0.61
C356	0.72	1.45
C357	2.1	2.3
C358	2.2	2.1
C359	0.0	0.5
C361	1.80	0.90
C362	1.79	1.79
C363	1.49	0.75
C3643	1.97	0.98
C3653	0.0	1.8
C366	0.0	1.8
C367	2.1	2.2
C368	2.0	2.1
C471	1.52	0.76
C472	0.0	2.0
C4734	0.0	2.0
C4743	1.81	1.00
C4753	1.8	2.0
C476	1.0	1.9
C477	1.1	2.0
C478	1.2	2.7
C481	1.6	1.57
C4824	1.67	0.84
C483	2.1	2.4
C484	2.1	2.1
C485	2.1	2.3

PSO Attainment Level

0	PSO1	B000
Course		PSO2
	I	

CO Attainment	1.64	1.81
Direct Attainment	1.58	1.69
InDirect Attainment	1.9	2.3

4 STUDENTS' PERFORMANCE (150)

Total Marks 113.96

Table 4.1

Item (Information to be provided cumulatively for all the shifts with explicit headings, wherever applicable)	2022-23 (CAY)	2021-22 (CAYm1)	2020- 21(CAYm2)	2019- 20(CAYm3)	2018- 19(CAYm4)	2017-18 (CAYm5)	2016-17 (CAYm6)
Sanctioned intake of the program(N)	60	60	60	120	120	60	60
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)	60	57	23	44	43	33	45
Number of students admitted in 2nd year in the same batch via lateral entry (N2)	0	5	0	0	0	0	1
Separate division students, If applicable (N3)	3	0	0	0	0	0	0
Total number of students admitted in the programme(N1 + N2 + N3)	63	62	23	44	43	33	46

Table 4.2

Year of entry	Total No of students admitted in	Number of students who have successfully graduated without backlogs in any semester/ (Without Backlog means no compartment or failures in any semester/ year of str				
	the program (N1 + N2 + N3)	l year	II year	III year	IV year	
2022-23 (CAY)	63	0	0	0	0	
2021-22 (CAYm1)	62	28	0	0	0	
2020-21 (CAYm2)	23	13	4	0	0	
2019-20 (CAYm3)	44	23	6	6	0	
2018-19 (LYG)	43	23	18	15	15	
2017-18 (LYGm1)	33	15	12	10	9	
2016-17 (LYGm2)	46	19	13	13	12	

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]			
		l year	II year	III year	IV year
2022-23 (CAY)	63	0	0	0	0
2021-22 (CAYm1)	62	57	0	0	0
2020-21 (CAYm2)	23	23	23	0	0
2019-20 (CAYm3)	44	44	44	44	0
2018-19 (LYG)	43	43	38	38	38
2017-18 (LYGm1)	33	33	28	26	26
2016-17 (LYGm2)	46	45	35	29	28

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]
2022-23 (CAY)	60	60	100.00
2021-22 (CAYm1)	60	57	95.00
2020-21 (CAYm2)	60	23	38.33

Average [(ER1 + ER2 + ER3) / 3]: 77.78

Assessment: 16.00

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

Total Marks 18.65

4.2.1 Success rate without backlogs in any semester / year of study (25)

Institute Marks: 7.25

Item	Latest Year of Graduation, LYG (2018- 19)	Latest Year of Graduation minus 1, LYGm1 (2017-18)	Latest Year of Graduation minus 2 LYGm2 (2016-17)
X Number of students admitted in the corresponding First year + admitted in 2nd year via lateral entry and seperated division, if applicable	43.00	33.00	46.00
Y Number of students who have graduated without backlogs in the stipulated period	15.00	9.00	12.00
Success Index [SI = Y / X]	0.35	0.27	0.26

Average SI [(SI1 + SI2 + SI3) / 3]: 0.29

Assessment [25 * Average SI]: 7.25

4.2.2 Sucess rate in stipulated period (15)

Institute Marks: 11.40

Item	Latest Year of Graduation, LYG (2018- 19)	Latest Year of Graduation minus 1, LYGm1 (2017-18)	Latest Year of Graduation minus 2 LYGm2 (2016-17)
X Number of students admitted in the corresponding First year + admitted in 2nd year via lateral entry and seperated division, if applicable	43.00	33.00	46.00
Y Number of students who have graduated in the stipulated period	38.00	26.00	28.00
Success Index [SI = Y / X]	0.88	0.79	0.61

Average SI[(SI1 + SI2 + SI3) / 3]: 0.76

Assessment [15 * Average SI]: 11.40

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 10.20

Institute Marks: 10.20

Academic Performance	CAYm3 (2019-20)	LYG (2018-19)	LYGm1 (2017-18)
Mean of CGPA or mean percentage of all successful students(X)	6.65	7.21	7.05
Total number of successful students(Y)	44.00	38.00	26.00
Totalnumber of students appeared in the examination(Z)	44.00	38.00	28.00
API [X*(Y/Z)]:	6.65	7.21	6.55

Average API [(AP1 + AP2 + AP3)/3]: 6.80

Assessment [1.5 * AverageAPI]: 10.20

4.4 Academic Performance in Second Year (15)

Total Marks 10.18

Institute Marks: 10.18

Academic Performance	CAYm2 (2020-21)	CAYm3 (2019-20)	LYG (2018-19)
Mean of CGPA or mean percentage of all successful students(X)	6.75	7.26	7.19
Total number of successful students (Y)	23.00	44.00	38.00
Total number of students appeared in the examination (Z)	23.00	44.00	43.00
API [X * (Y/Z)]	6.75	7.26	6.35

Average API [(AP1 + AP2 + AP3)/3]: 6.79

Assessment [1.5 * AverageAPI]: 10.18

4.5 Placement, Higher Studies and Entrepreneurship (40)

Total Marks 38.93

Institute Marks: 38.93

Item	LYG (2018- 19)	LYGm1 (2017- 18)	LYGm2 (2016- 17)
Total No of Final Year Students(N)	38.00	26.00	29.00
No of students placed in the companies or government sector(X)	33.00	22.00	25.00
No of students admitted to higher studies with valid qualifying scores(GATE or equivalent State or National Level tests, GRE, GMAT etc.) (Y)	2.00	1.00	2.00
No of students turned entrepreneur in engineering/technology (Z)	0.00	3.00	2.00
x + y + z =	35.00	26.00	29.00
Placement Index [(X+Y+Z)/N] :	0.92	1.00	1.00

Average Placement [(P1 + P2 + P3)/3]: 0.97

Assessment [40 * Average Placement]: 38.93

Program Name:

Assessment Year Name : CAYm1

S.No	Student Name	Enrollment No	Employee Name	Appointment No
1	ASHWINI UPPALADINNI	1AH18EC005	VIRTUSA SYSTEM PRIVATE LTD	ACSCE/T&P/2021-22/VIRTUSA/1
2	ASHWINI V	1AH18EC006	HEXAWARE	ACSCE/T&P/2021-22/HEXAWARE/1
3	CHARAN V	1AH18EC007	INFOSYS	ACSCE/T&P/2021-22/INFOSYS/1
4	CHETAN D	1AH18EC008	INFOSYS	ACSCE/T&P/2021-22/INFOSYS/2
5	HARISH KUMAR M V	1AH18EC011	CONTINENTAL	ACSCE/T&P/2021-22/CONTINENTAL/1
6	KAVYA M S	1AH18EC014	COMPUTACENTER	ACSCE/T&P/2021-22/COMPUTACENTER/1
7	POOJA G	1AH18EC021	NTT DATA FA INSURENCE	ACSCE/T&P/2021-22/NTT/1
8	RAHUL M	1AH18EC023	ROBERT BOSCH	ACSCE/T&P/2021-22/BOSCH/1
9	RANJEET K	1AH18EC026	FACE	ACSCE/T&P/2021-22/FACE/1
10	RASHMITHA P	1AH18EC027	TEACHNOOK	ACSCE/T&P/2021-22/TEACHNOOK/1
11	SADHANA K V	1AH18EC029	ACCORD	ACSCE/T&P/2021-22/ACCORD/1
12	SALLAPALLIRAKSHAINDHU	1AH18EC030	CAPGEMINI	ACSCE/T&P/2021-22/CAPGEMINI/1
13	SOWMYA M	1AH18EC033	6D TECHNOLOGY	ACSCE/T&P/2021-22/6DTECHNOLOGY/1
14	SWATHI S	1AH18EC036	ACCORD	ACSCE/T&P/2021-22/ACCORD/1
15	TEJAS K B	1AH18EC037	STRATEGENT	ACSCE/T&P/2021-22/STRATEGENT/1
16	VARSHINI M U	1AH18EC038	CAPGEMINI	ACSCE/T&P/2021-22/CAPGEMINI/2
17	VASAVI B L	1AH18EC039	CAPGEMINI	ACSCE/T&P/2021-22/CAPGEMINI/3
18	VIJAY K	1AH18EC040	INFOSYS	ACSCE/T&P/2021-22/INFOSYS/1
19	VIJAY KUMAR S	1AH18EC041	NEWT GLOBAL	ACSCE/T&P/2021-22/NEWT/1
20	VIJETHA RAO A V	1AH18EC042	CAPGEMINI	ACSCE/T&P/2021-22/CAPGEMINI/4
21	ABAYNAGESH H A	1AH15EC001	SEPIC TECHNOLOGIES	ACSCE/T&P/2021-22/SEPIC/1
22	CHANDRA KIRAN S	1AH15EC008	SSI PEOPLE	ACSCE/T&P/2021-22/SSI/1
23	Aarthi Swamy	1AH18EC001	Indian NAvy	ACSCE/T&P/2021-22/INDIANNAVY/1
24	Nishanth	1AH18EC400	SLOKY TECHNOLOGY	ACSCE/T&P/2021-22/SLOKY/1
25	Ajay M N	1AH18EC003	CAPGEMINI	ACSCE/T&P/2021-22/CAPGEMINI/5
26	Gagan B R	1AH18EC009	MUWT GLOBAL	ACSCE/T&P/2021-22/MUWT/1

Assessment Year Name : CAYm2

S.No	Student Name	Enrollment No	Employee Name	Appointment No
1	Abhinav Anand	1AH17EC001	GOVERNMENT SECTOR, BIHAR	ACSCE/T&P/2020-21/GOVN/1
2	Akshay Aradhya.M	1AH17EC004	Tessolve, Electrono Solutions	ACSCE/T&P/2020-21/Tessolve/1
3	Ashwini.M	1AH17EC006	Grassroots, Electrono Solutions, ak AEROTECH	ACSCE/T&P/2020-21/Grassroots/1
4	Athira.K	1AH17EC007	Cognizant	ACSCE/T&P/2020-21/Cognizant/1
5	Chandana.R	1AH17EC010	VRIZE	ACSCE/T&P/2020-21/VRIZE/1
6	Chandan Gowda.K R	1AH17EC011	AVIN SYSTEMS PVT LTD	ACSCE/T&P/2020-21/AVIN/1
7	Chethan Kumar.B	1AH17EC012	VALIANT COMMUNICATION LTD	ACSCE/T&P/2020-21/VALIANT/1
8	Chethan Kumar.L	1AH17EC013	HCL (SmartBrain)	ACSCE/T&P/2020-21/HCL/1
9	Dilip.K	1AH17EC015	GSAS MICROSYSTEM	ACSCE/T&P/2020-21/GSAS/1
10	Drupad.N	1AH17EC017	TCS	ACSCE/T&P/2020-21/TCS/1
11	Hitha Suresh	1AH17EC018	BOSCH	ACSCE/T&P/2020-21/BOSCH/1
12	Jeshwanth. Y R	1AH17EC019	WIPRO	ACSCE/T&P/2020-21/WIPRO/1
13	Kala.N.S.	1AH17EC020	FUJITSU	ACSCE/T&P/2020-21/FUJITSU/1
14	Monish.D	1AH17EC022	DXC TECH	ACSCE/T&P/2020-21/DXC/1
15	Prajwal.N	1AH17EC023	WIPRO	ACSCE/T&P/2020-21/WIPRO/2
16	Samarth Kulkarni	1AH17EC027	EDGE GATE	ACSCE/T&P/2020-21/EDGEGATE/1
17	Sarwesh	1AH17EC028	HCL (SmartBrain), HCL Technologies	ACSCE/T&P/2020-21/HCL/2
18	Shreyas. D K	1AH17EC030	MainTec, Accenture	ACSCE/T&P/2020-21/MainTec/1
19	Vidya.M	1AH17EC032	BEL, Electrono Solutions	ACSCE/T&P/2020-21/BEL/1
20	Sathyashree G	1AH15EC034	ACCORD	ACSCE/T&P/2020-21/ACCORD/1
21	Chinmaya Naik	1AH15EC009	CODOSPHERE	ACSCE/T&P/2020-21/CODOSPHERE/1
22	Lithin K Dani	1AH15EC017	FIRST HIRE	ACSCE/T&P/2020-21/FIRSTHIRE/1
23	Ravikumar K	1AH15EC029	MainTec	ACSCE/T&P/2020-21/MainTec/2
24	Monica Gladise k	1AH16EC400	AROGYA ENTREPRICE	ACSCE/T&P/2020-21/AROGYA/1
25	Prajwal C N	1AH16EC035	BRIGHT CHAMPS	ACSCE/T&P/2020-21/BRIGHTCHAMPS/1
26	Nakul H	1AH15EC023	ALORICA	ACSCE/T&P/2020-21/ALORICA

Assessment Year Name : CAYm3

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S.No	Student Name	Enrollment No	Employee Name	Appointment No		
1	A SHREYA	1AH16EC001	NTT DATA/FREEN KART	ACSCE/T&P/2019-20/NTT/1		
2	AISHWARYA B K	1AH16EC003	QSPIDERS, Test Yantra	ACSCE/T&P/2019-20/QSP/1		
3	AKSHAY S	1AH16EC004	NTT DATA	ACSCE/T&P/2019-20/NTT/2		
4	AVINASH P RAO	1AH16EC007	SFO TECHNOLOGIES	ACSCE/T&P/2019-20/SFO/1		
5	BHAGYASHREE M	1AH16EC009	LUMEN TECHNOLOGIES	ACSCE/T&P/2019-20/LUMEN/1		
6	BHARATH S	1AH16EC010	CONCENTRIX	ACSCE/T&P/2019-20/COCENT/1		
7	CHANDAN R	1AH16EC013	VISIONET SYSTEM PVT LTD	ACSCE/T&P/2019-20/VISIONENT/1		
8	CHARITHA N	1AH16EC014	QUALITEST GROUP INDIA	ACSCE/T&P/2019-20/QUALITEST/1		
9	DEVIKA S	1AH16EC015	SONATA SOFTWARE	ACSCE/T&P/2019-20/SONATA/1		
10	IMPANA S	1AH16EC020	FREEN KART SOLUTION	ACSCE/T&P/2019-20/FREENKAR/1		
11	KISHAN NANDAVARIK N	1AH16EC022	ADA	ACSCE/T&P/2019-20/ADA/1		
12	MANASA C	1AH16EC028	DIGIADD, INFOSYS	ACSCE/T&P/2019-20/INFOS/1		
13	MONISHA D	1AH16EC029	FREEN KART SOLUTION	ACSCE/T&P/2019-20/FREENKAR/2		
14	NAMRATHA V	1AH16EC030	UFABER	ACSCE/T&P/2019-20/UFABER/1		
15	PAVAN KUMAR	1AH16EC032	XACTLY	ACSCE/T&P/2019-20/XACTLY/1		
16	POOJA B R	1AH16EC034	FREEN KART SOLUTION/ BEL	ACSCE/T&P/2019-20/FREENKAR/3		
17	RAMYASHREE B K	1AH16EC037	HYDAX	ACSCE/T&P/2019-20/HYDAX/1		
18	RINCY MARIA T	1AH16EC038	IBM	ACSCE/T&P/2019-20/IBM/1		
19	SWATHI H	1AH16EC040	HUDL PVT LTD, AMAZON	ACSCE/T&P/2019-20/HUDL/1		
20	TEJASWINI B	1AH16EC042	FREEN KART SOLUTION	ACSCE/T&P/2019-20/FREENKAR/4		
21	VEENA K	1AH16EC043	Wistron infocom manufacturing india pvt LTD,	ACSCE/T&P/2019-20/Wistron/1		
22	SOUNDARYA R	1AH16EC047	CONTEXT SOFTWARE DEVELOPMENT-Assistant system engineer	ACSCE/T&P/2019-20/CONTEXT/1		
23	VARSHA M	1AH14EC031	SMILE ELECTRONICS PVT LTD	ACSCE/T&P/2019-20/SMILEPL/1		
24	ARPITHA M L	1AH15EC003	HIYAMEE PVT LTD	ACSCE/T&P/2019-20/HIYAMEE/1		
25	ASHMITHA B S	1AH15EC005	BYJU'S	ACSCE/T&P/2019-20/BYJU'S/1		
26	KRUTHIKA S	1AH15EC014	HIYAMEE PVT LTD	ACSCE/T&P/2019-20/HIYAMEE/2		
27	PRAJWAL GOWDA	1AH15EC025	COMPETING ZP ELECTION	ACSCE/T&P/2019-20/COMPETING/		
28	R RAKESH NAIK	1AH15EC027	FREEN KART SOLUTION	ACSCE/T&P/2019-20/FREENKAR/5		
29	UTHPALA V L	1AH15EC043	HIYAMEE PVT LTD	ACSCE/T&P/2019-20/HIYAMEE/3		
30	SANGEETHA R	1AH15EC048	MYND INTELLIGENCE	ACSCE/T&P/2019-20/MYND/1		

4.6 Professional Activities (20)

Total Marks 20.00

4.6.1 Professional socities/ chapters and organizing engineering events (5)

Institute Marks: 5.00

Professional Activities (20)

4.6.1 Professional socities/ chapters and organizing engineering events (5)

These student chapters are active in a variety of student-centric professional activities that expose students talents. One of the most important functions of these societies is dissemination of technical expertise, which aids in ensuring that aspiring engineers are aware of recent trends in technological advancements in this complex and ever-changing world.

Proposes to establish the IETE Students Forum in Engineering College through a massive membership drive in these institutions. IETE Students Forums play a useful and improving standard of education, counselling students on emerging new opportunities, encouraging outside-the-classroom studies / practical work / seminars, and so

Professional society activities provide valuable resources for students, networking opportunities, as well as perfect platform for sharing ideas with each other

List of Professional society/chapters



		EVEN Semester 2022		
Si. No	Month & Year	Title of the Events	Number of Participants	Date
1	April 2022	Career guidance program	75	09.04.2022
2	May 2022	Workshop - Microwave Technology	85	06.05.2022
3	May 2022	Workshop - IOT and its Implementation	70	09.05.2022
4	May 2022	Seminar - Career guidance	90	10.05.2022
5	July 2022	Project Exhibition	70	29.07.2022
	I	ODD Semester 2021		1
Si. No	Month & Year	Title of the Events	Number of Participants	Date
1	October 2020	Webinar on "National Education Policy"	80	22/09/2020
2	November 2020	Webinar - Introduction to Industry 4.0 & its human application	85	9/11/2020
3	November 2020	Webinar - Digital Transformation & its Impact in industries	110	9/11/2020
4	November 2020	Webinar - Introduction to IOT in Manufacturing Industries	75	13/11/2020
5	November 2020	Webinar - Recent trends in AR & BR in Manufacturing Industries	90	14/11/2020
6	November 2020	Webinar - Introduction to Industry 4.0 & its human application	85	23/11/2020
7	November 2020	Webinar - Digital Transformation & its Impact in industries	70	23/11/2020
8	November 2020	Webinar - Applications of Industry 4.0 in Education Sector	85	24/11/2020
	l	EVEN Semester 2021		
Si. No	Month & Year	Title of the Events	Number of Participants	Date
1	May 2021	WEBINAR ON MAGIC OF SWITCH WORDS AND HEALING	85	18/05/2021
2	June 2021	WEBINAR ON E- MOBILITY	70	3/06/2021
3	June 2021	WEBINAR ON 3D PRINTING TECHNOLOGY	85	5/6/2021

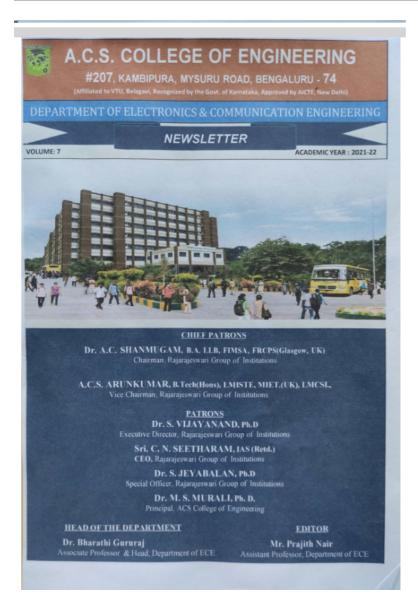
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4	June 2021	WEBINAR ON CAMPUS TO	70	5/6/2021
		CORPORATE WEBINAR ON CAREER PLANNING FOR FUTURE		11/6/2021
5	June 2021	ENGINEERS	NEERS 85	
		ODD Semester 2020		
Si. No	Month & Year	Title of the Events	Number of Participants	Date
1	October 2020	Webinar on "National Education Policy"	80	22/09/2020
2	November 2020	Webinar - Opportunities for ECE students in Pharma & Health Care	90	11/11/2020
3	November 2020	Webinar - Introduction to Data Validation & Analytics	75	12/11/2020
4	November 2020	Webinar - Introduction to IOT in Manufacturing Industries	90	26/11/2020
	<u> </u>	EVEN Semester 2020		
Si. No	Month & Year	Title of the Events	Number of Participants	Date
1	January 2020	Internal Hackathon for Smart India Hackathon 2020	75	10-01-2020
2	February 2020	Application of Electronics in automobiles industry	85	20/02/2020
3	February 2020	QSoCs	75	15/02/2020
4	February 2020	Innovation and entrepreneurship	85	26/02/2020
5	February 2020	One day 2020	75	29/02/2020
6	February 2020	Yoga	85	29/2/2020
7	March 2020	Vidhyunman	70	05/03/2020
8	May 2020	5 days spoken tutorial on	70	20/05/2020 to
Ü	Way 2020	Ardiuno	70	24/05/2020
		ODD Semester 2019		
Si. No	Month & Year	Title of the Events	Number of Participants	Date
1	August 2019	Seminar - Robotics & IoT	75	20/08/2019
2	August 2019	Seminar - Soft Skill Development	85	21/08/2019
3	August 2019	Seminar - VLSI Technology	70	24/08/2019
4	September 2019	Campus to Corporate		
5	September 2019	Mobile Applications	85	01/10/2019
6	October 2019	Seminar - Al & Application in Modern Industries	70	03/10/2019

 $\textbf{4.6.2 Publication of technical magazines, newsletters, etc.} \ (5)$

Institute Marks: 5.00

Publication of Technical magazine, newsletters.

Newsletter	AY-2022-23	AY-2021-2022	AY-2020-2021	AY 2019-2020
Volume& Issue	1		VOLUME-6, ISSUE-1	VOLUME-5, ISSUE-1
Editors	Gururaj Dr. Prajith Prakash	Gururaj Dr. Prajith Prakash		Dr.H.B. Bhuvaneswari Dr. Mathivanan





4.6.3 Participationininter-institute events by students of the program of study (10)

Institute Marks: 10.00

STUDENT EVENTS PARTICIPATION-ACADEMIC YEAR-2021-22

SI. No.	Student Name	USN	Name of the Programme	Date	Venue
1	Tejash K B & Team	1AH18EC035	Cricket Winner	20/04/2022	ACSCE Sports Meet
2	Akshay	1AH20EC003	Practipated in 10 th South India Level All Style Karate & Kung – Fu Championship	10/10/2021	Bangalore
3	Akshay	1AH20EC003	Basics of Martial Arts Awarded with Rank of Red	20/02/2022	Bangalore
4	Swathi S	1AH18EC036	Presented Paper in International Conference	23/06/2022 to 24/06/2022	RRCE, Bangalore
5	Varshini	1AH18EC038	Presented Paper in International Conference	23/06/2022 to 24/06/2022	RRCE, Bangalore
6	Nidhi	1AH18EC019	Presented Paper in International Conference	23/06/2022 to 24/06/2022	RRCE, Bangalore
7	Ramya	1AH18EC026	Presented Paper in International Conference	23/06/2022 to 24/06/2022	RRCE, Bangalore

STUDENT EVENTS PARTICIPATION-ACADEMIC YEAR-2019-20

SI.No.	Student Name	USN	Name of the Programme	Date	Venue
1	Hita Suresh	1AH17EC018	Workshop	25/08/2019	Techfortune Technologies
2	Chandhan Gowda K R	1AH17EC011	NECSES	21/09/2019 to 22/09/2019	National Engineering College, Tamilnadu
3	Chandhan Gowda K R	1AH17EC011	Texas Instruments & DST	Aug - 2019	Texas Instruments, India
4	Chandhan Gowda K R	1AH17EC011	Project Demonstration	13/04/2019	Dr. AIT,Bangalore
5	Chandhan Gowda K R	1AH17EC011	Project Demonstration Jnana – Vijnana – Tantrajnana Mela	19/01/2019 to 20/01/2019	Jnana – Vijnana – Tantrajnana Mela, Sri Kshetra Adichunchanagiri
6	Chandhan Gowda K R	1AH17EC011	National Conference	29/03/2019 to 30/03/2019	Amruta Institute of Engineering & management Sciences, Bangalore
7	Chandhan Gowda K R	1AH17EC011	Paper Presentation	21/05/2019	ACS College of Engineering, Bangalore

8	Chandhan Gowda K R	1AH17EC011	Innovative Project Exhibition	08/05/2019	ACS College of Engineering, Bangalore
9	Ashwini M	1AH17EC006	Innovative Project Exhibition	08/05/2019	ACS College of Engineering, Bangalore
10	Chetan Kumar L	1AH17EC013	Project Demonstration	13/04/2019	Dr. AIT, Bangalore
11	A Shreya	1AH16EC001	National Conference – Image Processing	03/05/2019	RNSIT, Bangalore
12	Aishwarya B K	1AH16EC003	Volley Ball Runner	26/04/2019	ACS College of Engineering, Bangalore
13	Akshay S	1AH16EC004	Programming in C++	29/04/2019	ACS College of Engineering, Bangalore

STUDENT EVENTS PARTICIPATION-ACADEMIC YEAR-2018-19

SI.No.	USN	Name	Certificate	Venue	Date
1	1AH15EC007	CHAITHRA R	National Conference- SPBCN-19	ACS College of Engineering	21.05.2019
2	1AH15EC010	DINESH NAIDU J	National Conference- SPBCN-19	ACS College	21.05.2019
	7411023010	DINLETTI WILDER	Best paper award at SPBCN-2019	of Engineering	21.00.2010
3	1AH15EC012	HARSHAD JAIN A	National Conference- SPBCN-19	ACS College of Engineering	21.05.2019
4	1AH15EC013	HEMA R	National Conference- SPBCN-19	ACS College of Engineering	21.05.2019
			UTSARGA MARATHON	RVCE, B'LORE	10.02.2019
5	1AH15EC015	LIKITHA M	National Conference- SPBCN-19	ACS College of Engineering	21.05.2019
6	1AH15EC016	LISHA S	National Conference- SPBCN-19	ACS College	21.05.2019
	IAITISESSIS	LIGHAG	Best paper award at SPBCN-2019	of Engineering	21.05.2019
7	1AH15EC018	LOHITH R	National Conference- SPBCN-19	ACS College of Engineering	21.05.2019

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8	1AH15EC019	M VARSHINNI	National Conference- SPBCN-19	ACS College of Engineering	21.05.2019
9	1AH15EC020	MADHUSUDHAN S	National Conference- SPBCN-19	ACS College of Engineering	21.05.2019
10	1AH15EC021	MOHAMMED ARSHAD S	National Conference- SPBCN-19	ACS College of Engineering	21.05.2019
11	1AH15EC028	RASHMI KANABUR	National Conference- SPBCN-19	ACS College of Engineering	21.05.2019
12	1AH15EC031	REVATHI A	National Conference- SPBCN-19	ACS College of Engineering	21.05.2019
13	1AH15EC032	SANIA TABASSUM	National Conference- SPBCN-19	ACS College of Engineering	21.05.2019
14	1AH15EC036	SHWETHA SUBBARAO	National Conference- SPBCN-19	ACS College of Engineering	21.05.2019
15	1AH15EC037	SONYA A	National Conference- SPBCN-19	ACS College of Engineering	21.05.2019
			National Conference- SPBCN-19		21.05.2019
16	1AH15EC038	SOUNDARYA C D	Volleyball Runner	ACS College of Engineering	26 th & 27 th April 2019
			Best paper award at SPBCN-2019		21.05.2019
17	1AH15EC039	SUHAS K S	National Conference- SPBCN-19	ACS College	21.05.2019
.,	TATTOLOGO	OUTING NO	Volunteer in cultural fest	of Engineering	11 th And 13 th May 2019
18	1AH15EC040	SUMANSUREKHA V	National Conference- SPBCN-19	ACS College of Engineering	21.05.2019
19	1AH15EC041	SUSHMA P	National Conference- SPBCN-19	ACS College of Engineering	21.05.2019
20	1AH15EC042	SWATHI S	National Conference- SPBCN-19	ACS College of Engineering	21.05.2019
21	1AH15EC044	VINUTHA G N	National Conference- SPBCN-19	ACS College of Engineering	21.05.2019
22	1AH15EC045	YASHASH KUMAR K E	National Conference- SPBCN-19 Best paper	ACS College of Engineering	21.05.2019
			award at SPBCN-2019 National		
23	1AH15EC046	YASHMITHA B S	Conference- SPBCN-19	ACS College of Engineering	21.05.2019
24	1AH14EC022	PUNEETH KUMAR R	National Conference- SPBCN-19	ACS College of Engineering	21.05.2019

25	1AH14EC029	SRIKANTH S	National Conference- SPBCN-19	ACS College of Engineering	21.05.2019
26	1AH14EC030	SUSHMA R	National Conference- SPBCN-19	ACS College of Engineering	21.05.2019
			UTSARGA MARATHON	RVCE, B'LORE	10.02.2019
27			National Conference- SPBCN-19	ACS College	21.05.2019
21	1AH14EC018	NIRANJAN KUMAR	Volunteer in cultural fest	of Engineering	11 th And 13 th May 2019
28	1AH13EC029	RETHUMON BABY	National Conference- SPBCN-19	ACS College of Engineering	21.05.2019

List of funded/sponsored major projects.

SI. No.	Academic year	Name of Students	Title	Funding agency	Year	Amount	Guide
1	2021-2022	Swathi S Ramya C Nidhishree Varshini M U	Women's Safety Device Using Panic Button	KSCST	2021-22	7000	Dr. Bharathi Gururaj
2	2020-2021	Chandan Gowda Samarth K Vidya M Deepika S	Industry boiler Monitoring Using IoT	VTU	2020-21	5000	Dr.H.B. Bhuvaneswari
3	2020-2021	Manoj Kumar Yashpal Gowda Prajwal C N	Distancing	VTU	2020-21	5000	Mr. Harish L
4	2019-2020	Akshay S	Drowsiness detection using EEG signal Analysis	FAER	2019-2020	5000	Dr. Mathivanan M

STUDENT ACHIEVEMENTS-VTU FIRST RANK WITH SEVEN GOLD MEDALS-Ms SWATHI

7	To the student who secures highest marks in Electronics &	Jain University Gold Medal
5	the student who secures 1st rank in B.E. Electronics Communication Engineering To the First Rank Holder in Electronics & Communication Engg.	Jyothi Gold Medal R N Shetty Gold Medal
4	To the student who secures 1st rank in B.E. Electroni Communication Engg.	Dr. N. R. Shetty Gold Medal
3	To the student who secures first rank in B.E. Electronic & Communication Engineering.	Late Sanjay Shripati Koimattur Memorial Gold I
2	To the student who secures first rank in B.E. Electronic & Communication Engineering.	VTU Gold Medal
1	To the student who passes B.E. degree in Electronics & Communication Engineering course of VTU in first attempt securing highest marks in aggregate in the last four semesters.	SJCE Silver Jubilee-1988 Gold Medal



STUDENT ACHIEVEMENTS IN COCURICULAR AND EXTRA CURICULAR ACTIVITIES





BASAVESHW VEERASHAIVA VIDYAVARDHA SANGHA

AMRUTA INSTITUTE OF ENGINEERING & MANAGEMENT SCIENCES AIEMS

(Approved by AICTE, New Delhl, Recognized by Government of Karnataka and Affiliated to VTU, Belagavi)

Bidadi Industrial Area, Bidadi, Bengaluru - 562109 www.aiems.in 2nd National Conference on

"Recent Advances in Engineering & Management"

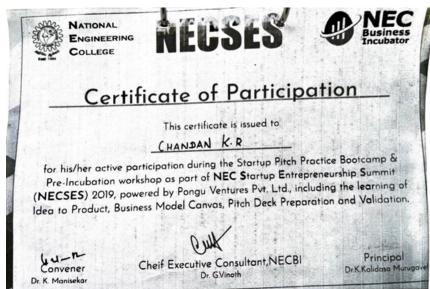
NCRAEM-19 Certificate

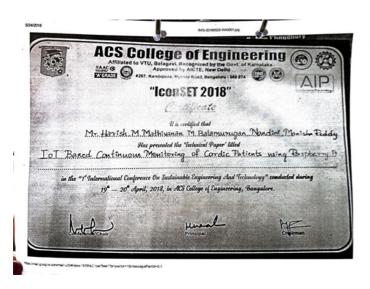
This is to certify that Mr. /Ms. /Mrs. CHANDAN K.R, NANDAN.M, Dr. RAMESHA.M.

have been awarded First / Second prize in the 2nd National Conference on "Recent Advances in Engineering & Management" – NCRAEM-19 held on 29th and 30th of March 2019 at Amruta Institute of Engineering & Management Sciences, Bidadi, in association with International Journal of Engineering Research & Technology (IJERT) for his / her technical paper titled "_____SAFE RYDER

AIEMS - NCRAEM - ECE - 119

Dr. Suresha C N Chief Coordinator, NCRAEM-19 Dr. Mahendra K V Principal





5 FACULTY INFORMATION AND CONTRIBUTIONS (200)

Total Marks 172.56

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.).	Initial Date of Joining	A Ty
Dr.Bharathi Gururaj	AHUPG0719R	ME/M. Tech and PhD	03/04/2021	IMAGE AND SIGNAL PROCESSING	8	0	0	Associate Professor	07/07/2021	30/07/2012	R
Dr.A.M.Prasanna Kumar	AMDPK2253N	ME/M. Tech and PhD	20/02/2020	SIGNAL PROCESSING & SPEECH PROCESSIONG	10	0	0	Professor	03/08/2009	03/08/2009	R
Mr. Nagesh H B	AWHPN9976B	M.E/M.Tech	26/08/2013	VLSI DESIGN	02	0	0	Assistant Professor		01/08/2013	R
Dr.Mathivanan	ALFPM8382B	ME/M. Tech and PhD	15/11/2014	SPEECH PROCESSING	05	04	1	Associate Professor	18/02/2015	18/02/2015	R
Dr.Prajith Prakash Nair	AQKPN5154A	ME/M. Tech and PhD	18/05/2022	IMAGE AND SIGNAL PROCESSING	5	0	0	Associate Professor	06/10/2022	19/07/2019	R
Mrs. Vijaya Dalawai	BEQPD9331C	M.E/M.Tech	10/02/2009	VHDL & VLSI DESIGN	0	0	0	Assistant Professor		20/09/2018	R
Mrs. Renuka Kelkar	CWJPK2009L	M.E/M.Tech	09/04/2012	VLSI DESIGN	0	0	0	Assistant Professor		21/10/2021	Re
Ms. Sumathi A	FIIPS0697J	M.E/M.Tech	15/01/2016	COMMUNICATION SYSTEMS	0	0	0	Assistant Professor		04/02/2019	Re
Ms. RAMYA K	CJTPR9742L	M.E/M.Tech	06/11/2014	VLSI DESIGN	0	0	0	Assistant Professor		20/08/2018	R
Dr.Bhuvaneswari	AGMPB6163B	ME/M. Tech	16/01/2006	VLSI DESIGN &TECHNOLOGY	0	1	0	Professor	27/07/2016	27/07/2016	R
Mr. Harish L	AHRPL4274D	M.E/M.Tech	09/04/2012	IMAGE AND SIGNAL PROCESSING	0	0	0	Assistant Professor		15/07/2017	R
Mrs. Vanishree Moji	ATNPM6652J	M.E/M.Tech	07/01/2010	DIGITAL COMMUNICATION & ELECTRONICS SYSTEMS	0	0	0	Assistant Professor		21/12/2020	Re
Mr. Baswaraj Swamy	BDNPB4136K	M.E/M.Tech	05/04/2013	VLSI AND EMBEDDED SYSTEMS	0	0	0	Assistant Professor		14/12/2020	R
Mrs. Vijayanandini	AIBPV7534M	M.E/M.Tech	08/11/2014	VLSI DESIGN	0	0	0	Assistant Professor		22/07/2015	R
Mr. Ganeshraj	AVDPG1433H	M.E/M.Tech	20/06/2013	COMMUNICATION SYSTEMS	0	0	0	Assistant Professor		20/06/2019	R
Mrs. Ashwini A M	BTHPA1116Q	M.E/M.Tech	30/12/2015	ELECTRONICS AND COMMUNICATION	1	0	0	Assistant Professor		19/07/2019	R
Prof. Sundersha N	AKQPS9355Q	M.E/M.Tech	03/01/1995	ELECTRONICS AND COMMUNICATION ENGINEERING	0	0	0	Associate Professor	26/08/2020	26/08/2020	R
Mr. Panchaxari Mamadapur	ASBPM4148A	M.E/M.Tech	13/02/2006	INFORMATION AND COMMUNICATION SYSTEMS	0	0	0	Assistant Professor		04/04/2022	R
Mrs.Aishwarya L	AZWPA2318N	M.E/M.Tech	08/06/2015	COMMUNICATION SYSTEMS	0	0	0	Assistant Professor		25/07/2022	R
Mr.GowriShankar I	AZGPG6914J	M.E/M.Tech	12/06/2013	COMMUNICATION SYSTEMS	0	0	0	Assistant Professor		26/08/2019	R

5.1 Student-Faculty Ratio (20)

Total Marks 16.00

Institute Marks: 16.00

UG

No. of UG Programs in the Department 1

							B.E				
Year of	CAY			CAYm1 (2021-22)					CAYm2		
	(2022-23)							(2020-21)			
Study			actual admitted through	ı lateral	Sanction Actual admitted through lateral entry students		ough lateral	Sanction Intake	Actual admitted through lateral entry students		
2nd Year	60	1			60		0		120	0	
3rd Year	60	0			120		0		120	0	
4th Year	120	0			120		0		60	0	
Sub-Total	240	1			300		0		300	0	
Total	241			300		300					
Grand 1	Total 24	41				300			300		

PG

No. of PG Programs	in the Department 0	
Grand Total		

SFR

No. of UG Programs in the Department 0

Description	CAY(2022-23)		CAYm1 (2021-22)		CAYm2 (2020-21)	
Total No. of Students in the Department(S)	241 all (UG+PG) students	Sum total of	all (UG+PG) students	Sum total of	all (UG+PG) students	Sum total of
No. of Faculty in the Department(F)	14	F1	16	F2	17	F3
Student Faculty Ratio(SFR)	17.21	SFR1=S1/F1	18.75	SFR2=S2/F2	17.65	SFR3=S3/F3
Average SFR	17.87	SFR=(SFR1+SF	FR2+SFR3)/3			
F=Total Number of Faculty	Members in the Departme	ent (excluding firs	st year faculty)			

Note: All the faculty whether regular or contractual (except Part-Time), will be considered. The contractual faculty (doing away with the terminology of visiting/adjunct faculty, whatsoever) who have taught for 2 consecutive semesters in the corresponding academic year on full time basis shall be considered for the purpose of calculation in the Faculty Student Ratio. However, following will be ensured in case of contractual faculty:

- 1. Shall have the AICTE prescribed qualifications and experience.
- 2. Shall be appointed on full time basis and worked for consecutive two semesters during the particular academic year under consideration.
- 3. Should have gone through an appropriate process of selection and the records of the same shall be made available to the visiting team during NBA visit

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(2022-23)	14	0
CAYm1(2021-22)	16	0
CAYm2(2020-21)	17	0

Average SFR for three assessment years: 17.87

Assessment SFR: 16

5.2 Faculty Cadre Proportion (25) Total Marks 25.00

Institute Marks: 25.00

Vari	Profess	ors	Associate Pro	ofessors	Assistant Professors	
Year	Required F1	Available	Required F2	Available	Required F3	Available
CAY(2022-23)	1.00	1.00	2.00	3.00	8.00	10.00
CAYm1(2021-22)	1.00	1.00	3.00	2.00	10.00	13.00
CAYm2(2020-21)	1.00	2.00	3.00	1.00	10.00	14.00
Average Numbers	1.00	1.33	2.67	2.00	9.33	12.33

Cadre Ratio Marks [(AF1 / RF1) + [(AF2 / RF2) * 0.6] + [(AF3 / RF3) * 0.4]] * 12.5 : 25.00

5.3 Faculty Qualification (25)

Total Marks 15.56

Institute Marks: 15.56

	x	Y	F	FQ = 2.5 x [(10X + 4Y) / F)]
2022-23(CAY)	4	10	12.00	16.67
2021-22(CAYm1)	3	13	14.00	14.64
2020-21(CAYm2)	3	14	14.00	15.36

Average Assessment: 15.56

5.4 Faculty Retention (25)

Total Marks 20.00

Institute Marks: 20.00

Description	2021-22	2022-23
No of Faculty Retained	15	12
Total No of Faculty	17	17
% of Faculty Retained	88	71

Average: 79.00

Assessment Marks: 20.00

$\textbf{5.5 Innovations by the Faculty in Teaching and Learning} \ (20)$

Total Marks 20.00

Institute Marks: 20.00

Innovative ideas in teaching learning process have helped the educators of our department to develop a holistic approach that has helped to encompass all the learning needs of our students. The major goal of identification and implementation of such innovations were to keep not only our students up to date with the current knowledge but also make them suitable for tackling all types of technical problems that they may face. To achieve this our faculty members continously implementing the following techniques:

- 1) implementation and usage of ICT tools for delivering lectures
- 2) Conduction of student participatory activities such as Quiz programmes, GD and Seminars on recent trends and cutting edge technologies.
- 3) Providing Advanced Value added courses for student benifits
- 4) Encouragement of Institute Industry Interaction activities
- 5)Pursuing online courses

List of Innovative practises implemented in department include :

SI.NO	Innovations by Faculty in Teaching -Learning Process				
1	Implementation of ICT tools for delivering lectures				
2	Conduction of Quiz and seminars on cutting edge technology				
2	Organising and Attending various workshops , Seminars and other types				
3	of Value Addded Courses				
4	Learning through Analysing Research Papers in the subjects				
5	Learning through Industrial Visits				
6	Learning through Alumni Interaction				
7	Mini project competitions and student seminars				
8	Virtual teaching techniques (MS teams)				
9	Project based learning				

 $\textbf{5.6 Faculty as participants in Faculty development/training activities/STTPs} \ (15)$

Total Marks 15.00 Institute Marks: 15.00

	Max 5 Per Faculty				
Name of the faculty	2021-22 (CAYm1)	2020-21 (CAYm2)	2019-20 (CAYm3)		
Dr.Bharathi Gururaj	5.00	5.00	3.00		
Dr.A.M.Prasanna Kumar	3.00	5.00	3.00		
Dr.Mathivanan	3.00	5.00	3.00		
Dr.Prajith Prakash Nair	3.00	5.00	3.00		
Mr.Nagesh H B	3.00	5.00	3.00		
Mrs.Vijaya Dalawai	3.00	5.00	3.00		
Mrs.Renuka Kelkar	3.00	0.00	0.00		
Ms.Sumathi A	3.00	5.00	3.00		
Mrs.Ramya K	3.00	5.00	3.00		
Dr.H B Bhuvaneswari	0.00	5.00	3.00		
Mr.Harish L	0.00	5.00	3.00		
Mrs.Vanishree Moji	3.00	3.00	0.00		
Mr.Basawaraj Swamy	3.00	3.00	0.00		
Mrs.Vijayanandhini K	3.00	5.00	3.00		
Mr.Ganeshraj	3.00	3.00	3.00		
Mrs.Ashwini	5.00	5.00	3.00		
Prof Sundersha n	3.00	3.00	0.00		
Mr.Panchaxari Mamadapur	0.00	3.00	0.00		
Mrs.Aishwarya L	0.00	3.00	3.00		
Mr.Gowrishankar I	3.00	3.00	3.00		
Sum	52.00	81.00	45.00		
RF = Number of Faculty required to comply with 20:1 Student Faculty Ratioas per 5.1	12.05	15.00	15.00		
Assessment [3*(Sum / 0.5RF)]	25.89	32.40	18.00		

Average assessment over 3 years: 25.43

5.7 Research and Development (30)

5.7.1 Academic Research (10)

	PhD Guidance Details During Assessment Period						
SI. No.	Research Guide	Research Guide Name of Scholar		Status			
1	Dr.H.B.Bhuvaneswari	Ms.Manasa Charitha	VTU, Belgaum & 2017	Pursuing			
		Mrs.Vanishree Moji	VTU, Belgaum & 2017	Pursuing			
	Dr.M.Mathivanan	Mr.Rahul R Rai	VTU, Belgaum & 2016	Pursuing			
2		Ms. Vamsha Deepa N	VTU, Belgaum & 2017	Pursuing			
		Mr. Panchaxari Mamadapur	VTU, Belgaum & 2017	Pursuing			
		Mr.Vijaya Kumar H R	VTU, Belgaum & 2015	Pursuing			
		Ms. Niveditha H R	VTU, Belgaum & 2017	Pursuing			
3	Dr.Aniths.S	Ms.Chaitanya D J	VTU, Belgaum & 2017	Pursuing			
		Mr. S CH Vijaya Bhaskar	VTU, Belgaum & 2017	Pursuing			
		Mr.Madhusudhanan S	VTU, Belgaum & 2019	Pursuing			

Title of paper	Name of the author/s	
women safety device using panic button	Dr.Bharathi Gururaj	
Artificial intelligence–based neural network for the diagnosis of diabetes and COVID	Dr.Bharathi Gururaj	International jo
Multiple Parameter Patient Health Monitoring System	A.M. PRASANNA KUMAR, S.M. VIJAYA	International
Bizarre Object Recognition Under Surveillance	A.M. PRASANNA KUMAR, S.M. VIJAYA	International
ANNHRPAA Based Deep Learning Image Processing for Pneumonia Detection	A.M. PRASANNA KUMAR, S.M. VIJAYA	Journal of Ele
A Novel Face Biometric Framework based on Various Levels of Distinctions of Faces (https://scholar.google.co.in/citations?view_op=view_citation&hl=en&user=QQ7xQDcAAAAJ&sortby=pubdate&citation_for_view=QQ7xQDcAAAAJ:M3ejUd6NZC8C)	M Mathivanan , Vijaya Kumar H. R	The Inte
Retraction Note to: Secure routing scheme with multi-dimensional trust evaluation for wireless sensor network (https://scholar.google.co.in/citations? view_op=view_citation&hl=en&user=QQ7xQDcAAAAJ&sortby=pubdate&citation_for_view=QQ7xQDcAAAAJ:qxL8FJ1GzNcC)	M Mathapati, TS Kumaran, A Muruganandham, M Mathivanan	Journal of Am
Investigation on large vocabulary continuous Kannada speech recognition (https://scholar.google.co.in/citations? view_op=view_citation&hl=en&user=QQ7xQDcAAAAJ&sortby=pubdate&citation_for_view=QQ7xQDcAAAAJ:YOwf2qJgpHMC)	M. Mathivanan, Puttaswamy Gowda Vanajakshi T. Senthil Kumaran	Internatior
Cross Coupled Power Effective Quick Level Shifter	Sai Kiran,N.Arun Vignesh,Prajith Prakash Nair,S.Kanithan,K.Srava ni,	2022 Internation
Hybrid Reverse Propagation ANN Adaptive Algorithm Based	A.M. PRASANNA KUMAR, S.M. VIJAYA	ACS

Fu	zzy rule-based fault location technique for thyristor-controlled series-compensated transmission lines	Dr.Bharathi Gururaj	International J
Support v	ector machine based fault section identification and fault classification scheme in six phase transmission line	Dr.Bharathi Gururaj	IAES Inte
	Deterrence of Piracy Employing IR Transmitter and Steganography System		ACS
ANNHBPAA	A BASED NOISE CANCELLATION EMPLOYING ADAPTIVE DIGITAL FILTERS FOR MOBILE APPLICATIONS	A.M. PRASANNA KUMAR, S.M. VIJAYA	JOURNAL
	Low complexity and efficient implementation of wimax interleaver in transmitte	Dr.Anitha S	
	Power Generation using sound by Piezo Electric Material	Dr.Anitha S	Journal of Phy International Electrical and
	Development and Validation of QT Interval Measurement Algorithm using windows/CVI	Dr.Anitha S	Journal of Phy International Electrical and
	Implementation of image enhancement and image segmentation in disease diagnosis (lung cancer)	Dr.Anitha S	7th Internati C
	Review on Campus Mithra: Design of Voice Based Attender Robot	Dr.Anitha S	
Rapid Low Power Voltage Level Shifter Utilizing Regulated Cross Coupled Pull Up Network		Sai Kiran,N.Arun Vignesh,Prajith Prakash Nair,S.Kanithan,K.Srava ni,	2021 Internation
	Study and Analysis of BTED Error Correction Codes for Cryptography Applications		Internationa
	Design and development of low power BTED cryptography algorithm on FPGA	Ramesha M,Bharathi Gururaj	Internationa
	A Survey on Recent Techniques in Face Recognition for Various Databases	Vijaya Kumar HR, M Mathivanan	2021 10th IEE System (https://ieeexplo
MOVEMENT	PREDICTION AND ALERT GENERATION IN SLACK USING MOTION SENSORS INTEGRATED WITH MOBILE ADHOC NETWORKS	R GOPAL, M KUMARESAN, S ANNAMALAI, S VIJAYAKUMAR, M MATHIVANAN	Turkish Jo
A	novel hybrid face recognition framework based on a low-resolution camera for biometric applications (https://scholar.google.com/scholar?cluster=15062975844879109458&hl=en&oi=scholarr)	M. Mathivanan Vijaya Kumar H. R.	Indonesian Jo
	Secure routing scheme with multi-dimensional trust evaluation for wireless sensor network	A. Muruganandham & M. Mathivanan Mahantesh Mathapati, T. Senthil Kumaran	Journal of Am
	NOISE CANCELLATION EMPLOYING ADAPTIVE DIGITAL FILTERS FOR MOBILE APPLICATIONS	A.M. PRASANNA KUMAR, S.M. VIJAYA	INDONESIAN
	Channel Encoding System for Transmitting Image over Wireless Network	Dr.Bharathi Gururaj, Dr.G.Sadashivappa	International J
Fpga	implementation of low power high speed bted algorithm for 8 bit error correction in cryptography system	Ramesha M,Bharathi Gururaj	Internationa
	Design and Modeling of a large deflection Micro cantilever using rectangular SCR",	Bhuvaneswari.H.B	

Arduino Energy Consumption Sensing System with LabVIEW User Interface	Bhuvaneswari.H.B ,Rahul R Rai and Kalyan Ram B	Тє
Continuous kannada speech segmentation and speech recognition based on threshold using MFCC and VQ	Vanajakshi Puttaswamy Gowda Mathivanan Murugavelu,SenthilKumaran Thangamuthu	International Jo

List	List of Faculties Completing PhD During Assessment Period				
SI. No.	Name of faculty	Details of Faculty	University	Year of Completion	
1	Dr. A. M. Prasanna Kumar	Professor	VTU , Belgaum	2020	
2	Dr.Bharathi Gurruraj	Associate Professor	VTU , Belgaum	2021	
3	Dr.Prajith Prakash Nair	Associate Professor	Jain University , Bangalore	2022	

FACULTY PURSUING PHD				
SL.NO	NAME OF FACULTY	DESIGNATION	UNIVERSITY	STATUS
1	Mr.Nagesh H B	Professor	, ,	Registered
2	Mrs.Aishwaryaa L	Assistant Professor	Bharath University , Chennai	Registered

5.7.2 Sponsored Research (5) Institute Marks : 1.00

2021-22 (CAYm1)

Project Title	Duration	Funding Agency	Amount
Womens safety device using panic button	6 months	KSCST	7000.00
FDP ON INDUSTRY 4.0	ONE MONTH	AICTE	93000.00
			Total Amount(X): 100000.00

2020-21 (CAYm2)

Project Title	Duration	Funding Agency	Amount
Industry boiler Monitoring Using IoT	6 MONTHS	VTU	5000.00
Social Distancing detection and Monitoring using Yolo v3	6 MONTHS	VTU	5000.00
STTP ON INDUSTRY 4.0	6 MONTHS	AICTE	396667.00
			Total Amount(Y): 406667.00

2019-20 (CAYm3)

Project Title	Duration	Funding Agency	Amount
Drowsiness detection using EEG signal Analysis	6 MONTHS	FAER	5000.00
			Total Amount(Z): 5000.00

Cumulative Amount(X + Y + Z) = 511667.00 5.7.3 Development Activities (10)

Development Activities (10) Institute Marks: 10.00

Research laboratories and Product Development

- 1. Intel Fice Laboratories
- 2. CADANCE Laboratories
- 3. Signal Processing Laboratories
- 4. Embedded Laboratories
- 5. VLSI Laboratories
- 6. Microwave Laboratories

WORKING MODEL/Charts/Monogramset

WORKING MODELS

2021-22

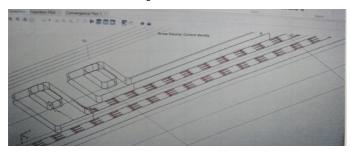
WOMEN SAFETY DEVICE USING PANIC BUTTON

In this work a novel technique to generate a smart device that is capable of using technologies such as GPS,GSM and other microcontroller based circuits together to provide a safety device for women and individuals in general by monitoring external and internal threats



Design and Simulation of MEMS using Thermal Actuators for RF Application

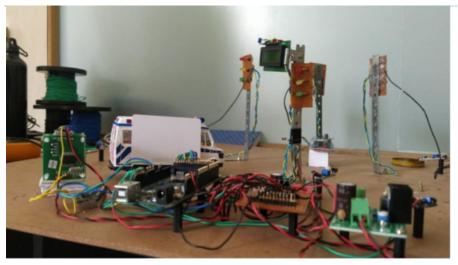
In this work an analytical model of two hot arm horizontal thermal actuator at the begining. The experimental results are provided to prove the accuracy of the analytical model. It then documents the design and model of a bidirectional vertical thermal actuator



2020-21

GREENWAY FOR AMBULANCE BY AUTOMATIC CONTROL OF TRAFFIC LIGHTS

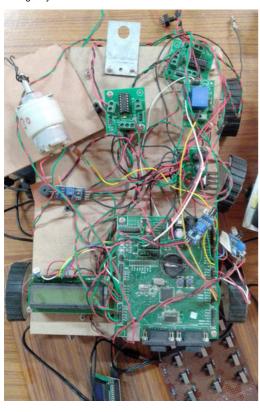
In proposed system we are trying to reduce the delay for the ambulance. To smoothen the ambulance movement, we come up with "Intelligent Traffic Signals Control System for Ambulance". We are developing a prototype" GREEN WAY" for clearing a way for ambulances during heavy traffic in roads. This project are trying to provide the green signals for ambulance by switching the signals



2019-2020

MOVABLE TRAFFIC DIVIDERS

The aim of the project is to formulate a mechanism of automated movable road divider that can shift lanes so that tey can have more number of lanes in the direction of the rush. The cumalative impact of the time and fuel that can be saved by adding extra lane to the direction of the rush will be significant and provides the clearence to the emergency vechicle.



5.7.4 Consultancy(from Industry) (5)

Institute Marks : 0.00

2021-22 (CAYm1)

Project Title	Duration	Funding Agency	Amount
Market strategy, evaluation of new R&D based methodologies on electric power generation using solar energy harvesting and pane manufacturing	2 YEARS	M/S SUN JEEVAN SOLAR SYSTEMS	50000.00
			Total Amount(X): 50000.00

2020-21 (CAYm2)

Project Title	Duration	Funding Agency	Amount

2019-20 (CAYm3)

Project Title	Duration	Funding Agency	Amount

Cumulative Amount(X + Y + Z) =

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

Total Marks 30.00

Institute Marks: 30.00

The Management of ACSCE motivates the faculty to perform better and improve themselves by appreciating their dedication to the profession through the following methods

- Reimbursing registration fees for attending conferences for paper presentation.
- Felicitating the faculty members for their exemplary service in the Institution.
- Reimbursing fees for the paper publications in reputed journals (Web of Science/ Scopus, etc)

Feedback about faculty is collected twice a semester from the students and is evaluated by HOD and the Principal. If the feedback is less than 75 %, the concerned faculty is informed and asked to improve their performance. They are encouraged to undergo FDPs that help to improve themselves.

The feedback form collected from students include the following points

- · Punctuality/class time utilization
- · Ability to explain
- · Interaction/Motivating students
- Subject Knowledge
- · Presentation of the subject/communication
- · Motivating the Students

Every year the assessment of faculty is based on their self-appraisal form. The key sections in the faculty appraisal form include

- Journal Publications
- · Conferences Attended
- · Book/Chapter Publications
- Training Programmes / Workshops/ Seminars/ FDPs/Webinars attended
- Training Programmes / FDPs / Workshops / Seminars organized
- · Patents · Academic achievements
- Faculty Interaction with the outside world
- Membership of Professional Bodies (ISTE/ IEEE/ CSI/ IEI etc)

Every year the faculty members of the department submit the appraisal form to the HOD. The HOD reviews self-appraisal forms and provides remarks/ comments and submits them to the principal along with the academic results & students feedback. The principal reviews the self-appraisal and provides remarks/ comments and submits it to the Management for further processing. The sample copy of Faculty Appraisal Form is as follows

FACULTY APPARAISAL FORM 2019-20



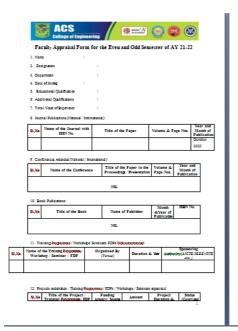


FACULTY APPRAISAL FORM 2020-21





FACULTY APPRAISAL FORM 2021-22





GLXia.	Name of the		Area of	Title of the	Status of	Year of
	Scholar	the Scholar	Research	Theda	Research	Confirmation
10. Any	other nd ovare in	Errration				
Declara	hereby deduce	tlat the information	an grovided abo	ve letrucand com	et to the best of a	ny knowledge
and belt	er.					
Date:						
Places					Signature of t	e Fixulty

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

Total Marks 10.00

Institute Marks: 10.00

Visiting Faculty Details

1) Dr. G. Vinoth, B.E, M.S, Ph.D (U.S.A), Innovation Management Services, Pongu Ventures Pvt Ltd

Actvities of Pongu Ventures

- To organize periodic workshops/ seminars/ interactions with entrepreneurs, investors, professionals and create a mentor pool for student innovators.
- To conduct various innovation and entrepreneurship-related activities prescribed by Central MIC in time bound fashion.
- · Identify and reward innovations and share success stories.
- · Network with peers and national entrepreneurship development organizations.
- · Create an Institution's Innovation portal to highlight innovative projects carried out by institution's faculty and students.
- Organize Hackathons, idea competition, mini-challenges etc. with the involvement of industries.
- In the academic year 2019-20 18 IIC driven activities, 32 MHRD driven activities and 20 self driven activities were conducted and 485 participants actively participated in these activities
- Students and faculty members were motivated to join the innovative culture and give solutions for innovative projects and make a significant contribution to an existing product, process or service.

2) Dr Kalyana Kannan ,Center for Test and Data Sciences

Center for Test an Data Sciences (CTDS) is for real time industry projects, internships, sponsored research from companies and government agencies and technology training. CTDS is composed of industry professionals playing the role of mentors and serves as a bridge between industry and institutions, The center focuses on building talent and technology solutions for industries through early collaboration and mutual engagements. Currently the center is working on projects related to Data Analytics, Software Quality Management, Mechanical testing and Characterization.

Areas of Interest

- · Agile Technology
- DevOps
- Data Sciences
- Microsoft ERP Materials Testing
- HR Platform Select Smart
- PLM, Compliance Pharma Quality
- Al and Machine Language
- Open Source Mean Stack
- Design Thinking

Projects

- · Live Industry projects
- Sponsored Research
- Technology Training

6 FACILITIES AND TECHNICAL SUPPORT (80)

Total Marks 80.00

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

Total Marks 30.00 Institute Marks : 30.00

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		Number of		Weekly utilization status(all	Techn	ical Manpowe	r Support
Sr. No	Name of the Laboratory	students per set up(Batch Size)	Name of the Important Equipment	the courses for which the lab is utilized)	Name of the Technical staff	Designation	Qualification
1	Electronic Devices and Instrumentation Laboratory(18ECL37	20	4 Trace Oscilloscope, Function generator, Dual output preset DC power supply, CRO, DC Regulated Single Power Supply &Dual Power Supply. Linear IC Trainer Kit,D C Power Supply Unit, Signal Generator,CRO, 30 MHz, CADDO 804, Power supply Tech lab dual scope oscilloscope-20 MHz,Digital Storage Oscilloscope with colour LCD 60MHz,AC Multi voltmeter 3MHz,Signal generator 2Mhz - AD2025,Signal Generator, MODULATOR,Attenuators,CRO,Optical Fibre Communication ,Solid State Klystron Power supply,Klystron Mount with Klystron tube,Solid State VSWR Meter,X-Band Signal generator,Klystron mount ,Power Divider,RF Detector,Micro Strip Ring resonator,OFC Kit,QPSK &DPSK Trainer Kit ACER Intel ® core (TM) 2 Duo CPU E7500@ 3GHz,1.58GHz, 1Gb RAM.	6hrs/week	Barath kumar	Tutor	BE
2	Digital System Laboratory(18ECL38	20	Digital IC Trainer Kits, Digital IC Tester. 10 - Dell Intel Core i5 6th Gen, 4Gb DDR3 RAM, 1Tb HDD, 2Gb Graphics, DVD Writer , Wi-fi, LED Display.LPC 1768 ARM Cortex M3 starter kit with accessoriesACER Intel ® core (TM) 2 Duo CPU E7500@ 3GHz,1.58GHz, 1Gb RAM40 AH Tubular Battery Lenovo Intel ® core ™ i3-7100 CPU @ 3.90GHz,3.91GHz 4Gb RAM, 64-bit operating system ACER Intel ® core (TM) 2 Duo CPU E7500@ 3GHz,1.58GHz, 1Gb RAM	12hrs/week	santosh	Instructor	Diploma
3	Microcontroller Laboratory(18ECL47)	20	MSP430 Development Kit,8051 Microcontroller kit with adapter & cables, DSP Starter Kit (DSK) Products includes C6713 development Board with 512K flash & 5MB SDRAM &softwares with experiments & Power supply, programmer quick start & customer support guide, Matlab Software,20-Lenovo Intel ® core ™ i3-7100 CPU @ 3.90GHz,3.91GHz 4Gb RAM, 64-bit operating system, ALS-NIFL-39 Matrix Keyboard, Multiplexed 1 Segment Display, Logic Controller I/F, Stepper Motor I/F, 14A Printer I/F-with Cable & 07 48 Lines D/I/O card with timer.	12hrs/week	Philip	Instructor	Diploma
4	Analog Circuits Laboratory(18ECL48)	20	4 Trace Oscilloscope, Function generator, Dual output preset DC power supply, CRO, DC Regulated Single Power	6hrs/week	Barath kumar	Tutor	BE
5	Digital Signal Processing Laboratory(18ECL57	20	MSP430 Development Kit,8051 Microcontroller kit with adapter & cables, DSP Starter Kit (DSK) Products includes C6713 development Board with 512K flash & 5MB SDRAM & softwares with experiments & Power supply, programmer quick start & customer support guide, Matlab Software,20-Lenovo Intel ® core ™ i3-7100 CPU @ 3.90GHz,3.91GHz 4Gb RAM, 64-bit operating system, ALS-NIFL-39 Matrix Keyboard, Multiplexed 1 Segment Display, Logic Controller I/F, Stepper Motor I/F, 14A Printer I/F-with Cable & 07 48 Lines D/I/O card with timer.	12hrs/week	santosh	instructor	Diploma
6	HDL Laboratory(18ECL58	20	LENOVO Intel(R) core(TM) i5- Universal Multivendor development 6500T CPU@ 2.50GHz 8.00 GB SD RAM 250GB HDD Kit, Interfacing cards, Pattern Generator Cards	12hrs/week	Philip	Instructor	Diploma

7	Embedded System Laboratory(18ECL66	20	Digital IC Trainer Kits, Digital IC Tester. 10 - Dell Intel Core i5 6th Gen, 4Gb DDR3 RAM, 1Tb HDD, 2Gb Graphics, DVD Writer , Wi-fi, LED Display.LPC 1768 ARM Cortex M3 starter kit with accessoriesACER Intel ® core (TM) 2 Duo CPU E7500@ 3GHz,1.58GHz, 1Gb RAM40 AH Tubular Battery Lenovo Intel ® core ™ i3-7100 CPU @ 3.90GHz,3.91GHz 4Gb RAM, 64-bit operating system ACER Intel ® core (TM) 2 Duo CPU E7500@ 3GHz,1.58GHz, 1Gb RAM	12hrs/week	Barath kumar	Tutor	BE
8	Communication Laboratory(18ECL67	20	Signal Generator, MODULATOR,Attenuators,CRO,Optical Fibre Communication ,Solid State Klystron Power supply,Klystron Mount with Klystron tube,Solid State VSWR Meter,X-Band Signalgenerator,Klystron mount ,Power Divider,RF Detector,Micro Strip Ring resonator,OFC Kit,QPSK &DPSK Trainer Kit Lenovo Intel ® core ™ i3-7100 CPU @ 3.90GHz,3.91GHz 4Gb RAM, 64-bit operating system, RF Power Meter, Microwave Test Bench Detector Diode.	12hrs/week	Santosh	Instructor	Diploma
9	Computer Networks Lab(18ECL76)	20	LENOVO Intel(R) core(TM) i5-6500T CPU@ 2.50GHz 8.00 GB SD RAM 250GB HDD Universal Multivendor development Kit, Interfacing cards, Pattern Generator Cards	18hrs/week	Philip	Instructor	Diploma
10	VLSI Laboratory(18ECL77	20	18-Acer systems with Dual core processor,1-HCL system,1-Lenova system,4G RAM, Mentor Graphic Higher Education Program, Cadence Tools, Printer.	18hrs/week	Barath kumar	Tutor	BE

$\textbf{6.2 Additional facilities created for improving the quality of learning experience in laboratories } \\ (25)$

Total Marks 25.00

Institute Marks: 25.00

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	Wi-fi	Wi-fi facility available in each department	For accessing Internet	Students and Faculties	Knowledge Updation and Sharing	PO5,PSO2
2	Green Board	All labs are equipped	For better explanation	Students	Knowledge Updation	PO10
3	MSP 430	16 bit CPU,Watch Dog Timer,UART,SPI Bus,ADC	Facility for Project work in Microcontroller based Systems	Students	Microcontrollers	PO 4,5,12, PSO1
4	Power Converters	Inverters, Controlled Rectifiers, Choppers, AC voltage Controllers	Facility for Project work in Power Electronics based Systems	Students	Power Electronics	PO4,12, PSO2

6.3 Laboratories: Maintenance and overall ambiance (10)

Total Marks 10.00

Institute Marks: 10.00

*All the laboratories are well equipped with internet facilities and installed with the necessary softwares to be needed for the conduction of laboratory experimentation as per university curriculum and also enable the students and faculty members to carry out additional experimentation relevant to the curriculum the labouratories are well equipped to carry out mini project as well as an acadamic project work and demonstration and exhibition.

- 1.WI-Flinternet facility has been provided to the students and faculty members.
- 2.computers are provided with necessary licensed softwares in each lab to facilitate the students and faculty members to carry out their practical sessions.
- 3.all the laboratories are maintained by qualified and experianced lab instructors and lab assistants.
- 4.students are permitted to utilize the laboratory facilities to carry out their academic project work and mini project work beyond the college working hours on demand and request basis.
- 5.Remedial lab sessions and sdditional lab sessions are provided to the students to carry out missed practical sessions due to holidays snd leave taken by students on medical reasons and other reasons.
- 6.the labs are kept open from 8:30 am to 4:00 pm for the benifit of students.
- 7.Laboratory facilities are extended to the students during weekends and holidays to enable the students to complete their acadamic project and mini project work.

All the labs are equipped with requisite lab equipments as per the university curriculum. all the components and equipments are in working condition

- *all the students should carry out their experimentation individually and they will be assessed for each experiment separately.
- *each students is alloted with an individual computer or Trainer kits to carry out their practical experimentation during the practical classes/sessions.
- *the lab has good ambience as the PCs are arranged in a way that student can feel comfortable during laboratory experimentation.
- *all equipments are calibrated before conduction of the experimentation.
- *serviving and maintenance of computer hardware, lab equipments and components are done at department level and college level.
- *Air Conditioned (A/C)seminar hall with LCD Projector and Audio visual equipments are available in the department for conducting technical seminars, placement preparation sessions and workshops
- *Auditorium/conference room for conducting conference and workskop.

6.4 Project laboratories (5)

Total Marks 5.00

Institute Marks: 5.00

SI. No.	Facility Name	Utilization
	Softwares	
1	a. MATLAB b. XILINX c. KEIL d. CABENCE e. HFSS ANTENA	Softwares are used to carryout respective domain related Projects.
	Hardwares	
2	a. Trainer kits b. Power supply c. Digital CRO'S d. Signal generators e. Microcontroller kit	Hardwares are used to carryout respective domain related Projects.

6.5 Safety measures in laboratories (10)

Total Marks 10.00

Institute Marks: 10.00

Sr. No	Laboratory Name	Safety Measures
	Electronic Devices and Instrumentation Laboratory Digital	First Aid Box, Fire Extinguisher First Aid Box, Fire Extinguisher
	System Laboratory Microcontroller Laboratory Analog Circuits	First Aid Box, Fire Extinguisher First Aid Box, Fire Extinguisher
1	Laboratory Digital Signal Processing Laboratory HDL Laboratory	First Aid Box, Fire Extinguisher First Aid Box, Fire Extinguisher
	Embedded System Laboratory Communication Laboratory	First Aid Box, Fire Extinguisher First Aid Box, Fire Extinguisher
	Computer Networks Lab VLSI Laboratory	First Aid Box, Fire Extinguisher First Aid Box, Fire Extinguisher

7 CONTINUOUS IMPROVEMENT (50)

Total Marks 50.00

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

Total Marks 20.00

Institute Marks : 20.00

POs Attainment Levels and Actions for Improvement- (2021-22)

POs	Target Level	Attainment Level	Observations			
PO 1 : Engineer	ing Knowledge					
PO 1	1.8	1.98	Target achieved.			
	wledge updating of the students, recent to on 3:For slow learners extra classes are c		sed with students. Action 2:More number of problems are solved in			
PO 2 : Problem	Analysis					
PO 2	1.8	2.13	Target achieved.			
Action 1: Assignments having complex problems will be given to students for further improvement in the course. Action2: Complex problems are solved in classrooms						
PO 3 : Design/d	evelopment of Solutions					
PO 3	1.8	1.83	Target achieved.			
	ed teaching will be enhanced to explain a t understand better. Action 3: Using tools	• •	ontinuous monitoring is done. Action 2: Extra classes will be handled to			
PO 4 : Conduct	Investigations of Complex Problems					
PO 4	1.8	1.82	Target achieved.			
	damental courses like 18EC33-Electronic	,	dled to make the student understand better. Action 2: ICT based teaching			
PO 5 : Modern T	Tool Usage					
PO 5	1.8	1.84	Target achieved.			
	ke Cadence,Matlab, Xilinx are provided in were conducted to know the modern too		ops are conducted to provide hands on training on modern tools. Action			
PO 6 : The Engi	neer and Society					
PO 6	1.8	1.90	Target achieved.			
Astion 1. Ctudon	to are advised to de prejects which fulfille	the weeds of equipty booth monit				
advised to be me participate in cult safety, legal and	ember of IETE society to build network wi tural events. Action 4: Students are advis cultural issues and share the information	th outside world and contribute to t ed to read newspapers, magazine	oring, safety aspects in hazardous environments etc Action 2: Students and the needs of society. Action 3: Students are advised to host and also			
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1.66

Target is not achieved

PO 12 : Life-long Learning

1.8

PO 12

Action1: Library hours are properly utilized by monitoring the students to ensure the effective use of journals, Magazines, Reference Books, NPTEL videos and internet facilities to browse and update the latest technological developments and current happenings in the industries and society. Action 2: Faculty members may adopt ICT based teaching to improve the teaching-learning process. Number of library hours for students may be increased to facilitate them to update and upgrade their knowledge. Action 3: Students are encouraged to read newspapers, magazines, technical and non-technical articles daily to know about societal, health, safety, legal and cultural issues and share the information among other students Action 4: Students are advised to be members in professional societies like IEEE, IETE society etc. to build a rapport with outside world and contribute to the needs of society Action 5:Students are motivated to publish papers in National and International journals

PSOs Attainment Levels and Actions for Improvement- (2021-22)

SOs Target Level	Attainment Level	Observations
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PSO 1: To Analyze, design and develop solutions by applying foundational concepts of Electronics and Communication Engineering.

PSO 1	1.8	1.64	Target is not achieved. In the course 18EC32-Network Theory, the understanding and solving complex problems is tedious for students In the course 18EC33-Electronic Devices, the student have difficulty in understanding the basic concepts behind the design of circuits. In the course 18EC52-Digital Signal Processing, the understanding and solving complex problems is tedious for students.
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Action 1: For slow learners extra classes will be handled to make the student understand better. Action 2: Assignments will be given to students to analyze the methods which are used to solve and arrive at solutions. Action 3: To enhance professional skills: seminars, guest lectures, technical talks will be arranged with academic and industrial experts.

PSO 2 : Design and implement the products using cutting edge technologies in hardware and software, to demonstrate leadership qualities among students, to promote research and development activities for betterment of organization and society.

- 17				
	PSO 2	1.8	1.81	Target achieved.
_		-		

Action 1: Along with project work, the students are advised to think Innovatively in their interested subjects and take up that idea to implement. Action 2; IIC activities is conducting for students. Action 3: Motivating students to choose multi disciplinary projects.

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

Total Marks 10.00

Institute Marks: 10.00

Academic audit was conducted in the institution by an internal expert committee (AAC: Academic Audit Committee) constituted by the Principal. The academic audit team meets UG students for taking their feedback about the teaching, research and infrastructure.

The academic audit focuses on:

- · Assuring quality of learning process
- · Determining desired learning outcomes
- · Assessing teaching and learning process
- · Implementing quality education
- · Student assessment and evaluation

The academic audit is based on

- · Annual Reports of the Departments
- · Annual Quality Assurance Report AQAR of the institution
- · Feedback from stakeholders
- · Visits to Departments
- · Presentation of Achievements by the Departments

The following documents are made available to the AAC committee.

- · Copy of the Time Table
- · Course File
- · Lab. Equipment Details
- · Students Projects
- Various Grants received by the Institute/Department
- · Internal evaluation marks
- · Details of Remedial classes
- · Result Analysis

AAC Members

SI. NO	Name	Role in AAC	Affiliation			
1	Dr. M. S. Murali	Chairman	Principal, ACSCE			
2	Dr. S Selvanandam	Member Secretary	Vice Principal, ACSCE			
3	Dr. S Siddesh	Member Secretary	Professor, ACSCE			
4	Dr. Bharati Gururaj	Member Secretary	HOD-ECE, ACSCE			
5	Dr.A M Prasannakumar	Member	Professor, ACSCE			
6	Dr. Prajith Prakash Nair	Member	Associate Professor, ACSCE			

The institution has an **Internal Quality Assurance Cell (IQAC)** to monitor and maintain the standard of academic affairs of the institution. The cell is chaired by the Principal and the activities of the cell are being planned, executed and coordinated by the department heads.

The Internal Quality Assurance Cell of ACS College of Engineering (ACSCE) is performing following tasks on regular basis:

- 1. Improvement in quality of teaching and research by regular inputs to all concerned based on feedback from students.
- 2. Providing inputs for best practices in administration for efficient resource utilization and better services to students and staff.
- 3. Providing inputs for Academic and Administrative Audit and analysis of results for improvement in areas found weak.

The major activities of IQAC are

- Documentation of all academic and outreach programs activities
- Prepare the annual report to be sent to the UGC (All AQARs prepared till the academic year 2021-2022 has been submitted to the National Accreditation and Assessment Council (NAAC) and the same has been uploaded in the institution's website)
- Preparation of periodic reports to be read by the Principal in the BOM meeting Conducting academic audit
- Documentation of the self-appraisal reports of the faculty members
- Documentation of annual student feedback reports
- · Planning and execution of quality assurance measures in academic and curricular aspects Provision of data to be published in the News letter (half-yearly)
- Organizing seminars/workshops related to quality assurance aspects of the University

Student Mentor Process:

Each faculty member mentors around 20 students. For each student, a mentor book is maintained where academic details are noted. Regular counselling has been done by mentors.

Action taken during the period of assessment:

- 1. Encourage Faculties to do NPTEL, IIT Bombay Spoken Tutorial, ATAL program, etc.
- 2. Organized STTP/ conference/FDP program in collaboration with reputed agencies like AICTE/DST etc at the institute.
- 3. Encourage faculties to attend more numbers of FDP, Workshops, etc.
- 4. Increase the number of department library books.
- 5. Initiation of getting accreditation from reputed organizations.
- 6. Encourage faculties to use more numbers of pedagogies.
- 7. Encourage faculties to do more online courses.
- 8. Encouraging existing faculties to register for Ph.D.
- 9. Encourage faculties to apply for funding and consultancy work.

The variety of elements for continuous assessment and feedback mechanisms in ACS College of Engineering enable effective direct and indirect monitoring and measurement of outcomes and appropriately identify and address gaps. The learning outcomes are also reviewed regularly by external examiners and external experts in the Departmental and Faculty Board of Studies Meetings, Academic Audit Committee (AAC) and IQAC on Education.

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

Total Marks 10.00 Institute Marks : 10.00

Placement and Higher studies

- · Pre-pacemet traning will be given to the students in third year only
- In pre-placment training the students ae trained on the soft skills like Aptitude, Group discussion etc.. by the experts.
- · Techincal traing on various core subjects will given by the faculty
- · Mock interviews will be conducted by the placement department
- · Career guidance programmes are conducted.
- Students are motivated to go for higher studies.
- Students are guided to prepare for competitive exams like GRE, GMAT, GATE and TOEFEL.
- The students are motivated through guest lectures to go for higher studies in India and abroad.
- The Letter of Recommendation is verified and given by the faculty members to students to pursue their higher studies in various Universities

	LYG	LYG	LYG
		m1	m2
	2021-	2020-	2019-
Item	2022	2021	2020
Total No. of Final year students (N)	47	43	36
No. of students placed in companies or Government sector (X)	26	26	30
Number of students admitted to Higher studies with valid qualifying scores/ranks (GATE or equivalent state or National level Tests, GRE, GMAT etc.) (Y)	0	1	2
No. of students turned entrepreneur in engineering/technology (Z)	0	2	0
X+Y+Z	26	29	32
Placement Index : (X+Y+Z) / N	55.31%	67.44%	88.88%

 $\textbf{7.4 Improvement in the quality of students admitted to the program } \ensuremath{(10)}$

Total Marks 10.00

Institute Marks: 10.00

ltem		2022-23	2021-22	2020-21
National Level Entrance Examination	No of students admitted	0	0	0
	Opening Score/Rank	0	0	0
	Closing Score/Rank	0	0	0
State/ University/ Level Entrance Examination/ Others	No of students admitted	36	21	7
,	Opening Score/Rank	51499	52450	64286
CET	Closing Score/Rank	166209	181016	202698
Name of the Entrance Examination for Lateral Entry or lateral entry	No of students admitted	4	0	0
details	Opening Score/Rank	4623	0	0
DCET	Closing Score/Rank	11767	0	0
Average CBSE/Any other board result of admitted students(Physics, Chemistry&Maths)		74	76	71

8 FIRST YEAR ACADEMICS (50)

Total Marks 45.75

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

Total

Institute N

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

Name of the			Date of Receiving	Area of		Date of	Teach	ning loa	ad (%)	Currently	Nature Of Association
faculty member	PAN No.	Qualification	Highest	Specialization	Designation	joining	I		CAYm2	Associated (Yes / No)	(Regular /
			Degree								Contract)
Dr.B H Veena	ABVPV4837A	M.Sc. and PhD	03/10/1992	Mathematics	Professor	03/08/2015	100	100	100	Yes	Regular
Dr.Pradeep Ku	BWHPP1151K	M.Sc. and PhD	26/06/2013	Mathematics	Associate Professor	01/08/2013	100	100	100	Yes	Regular
Mrs.Deepa	BGHPD4862K	M.Sc	06/02/2005	Mathematics	Assistant Professor	27/08/2009	100	100	100	Yes	Regular
Dr.Selvananda	BEPPS2037R	M.Sc. and PhD	31/01/2009	Physics	Professor	28/07/2014	100	100	100	Yes	Regular
Mrs.Anandhi D	BQNPA3860N	M.Sc	08/09/2007	Physics	Assistant Professor	05/02/2014	100	100	100	Yes	Regular
Dr.Pradeepa S	BQYPP5794F	M.Sc. and PhD	18/06/2015	Chemistry	Assistant Professor	21/12/2015	100	100	100	Yes	Regular
Dr. M S Shiva I	AKCPM6895R	M.Sc. and PhD	17/07/2017	Chemistry	Associate Professor	10/08/2009	100	100	100	Yes	Regular
Dr. Siddesha H	ALXPS3767N	ME/M. Tech and PhD	16/03/2017	Composite Materials Process BySevere Plastic Deformation	Associate Professor	01/08/2011	100	100	100	Yes	Regular
Mr. Kumar B M	BXEPK1086N	M.E/M.Tech	09/12/2008	Thermal Engineering	Assistant Professor	08/08/2011	100	100	100	Yes	Regular
Dr. Sunil Raj B	BCAPB6294G	ME/M. Tech and PhD	24/02/2023	Solar Thermal Engineering	Assistant Professor	23/07/2012	100	100	100	Yes	Regular
Dr. Suresh P N	ADBPP0581H	ME/M. Tech and PhD	09/03/2011	Fluid mechanics	Professor	01/07/2016	100 100 100		Yes	Regular	
Mrs. Gayathri (AXQPG5162N	M.E/M.Tech	30/03/2009	Environmental Engineering	Assistant Professor	23/07/2015	100	100	100	Yes	Regular
Mr. Praveen A	BZRPP5653B	M.E/M.Tech	08/12/2010	Power Electronics	Assistant Professor	25/07/2019	100	100	100	Yes	Regular
Mr. Ram Kuma	AKKPK7249K	M.E/M.Tech	15/04/1993	Industrial Electronics	Assistant Professor	03/03/2021	100	100	0	Yes	Regular
Mr. Gowtham ŀ	BLYPG3275K	M.E/M.Tech	01/06/2017	Electrical Drives Embedded Control	Assistant Professor	02/11/2017	100	100	100	Yes	Regular
Dr.Raghavendı	BFZPR7142P	M.Sc. and PhD	08/02/2020	Mathematics	Associate Professor	30/07/2012	100	100	100	Yes	Regular
KAVYA C H	EHUPK8680K	M.Sc	13/06/2016	Mathematics	Assistant Professor	18/03/2019	100	100	100	Yes	Regular
VENKATESH 1	AOQPV2695Q	M.Sc	14/03/2010	BIOCHEMISTRY	Assistant Professor	09/11/2012	100	100	100	Yes	Regular
Mr. GOWRI SH	AZGPG6914J	M.E/M.Tech	01/11/2013	COMMUNICATION SYSTEMS	Assistant Professor	26/08/2019	100	100	100	Yes	Regular
Mrs. ASWINI S	EFWPS5240P	M.E/M.Tech	18/03/2019	CSE	Assistant Professor	01/08/2018	100	100	100	Yes	Regular
Mrs. SHRUTHI	ENUPS5284R	MA	22/04/2019	CONSTITUTIONAL AND ADMINISTRATIVE LAW	Assistant Professor	10/08/2022	100	0	0	Yes	Regular
Mr. VINAY KUN	BDXPP9221K	MA	19/08/2015	KANNADA	Assistant Professor	23/08/2022	100	0	0	Yes	Regular
Mrs. IRAMMA	AOTPH6496L	MA	27/01/2017	ENGLISH	Assistant Professor	10/08/2022	100	0	0	Yes	Regular
Mrs.NAVYA	NRBPS8914J	M.E/M.Tech	03/04/2021	STRUCTERAL ENGINEERING	Assistant Professor	10/08/2022	100	0	0	Yes	Regular
Mr.Santhosh K	FUTPS7739J	M.Sc	21/12/2022	Physics	Assistant Professor	08/08/2022	100	0	0	Yes	Regular

/0/23, 10.12 AIVI					PII	rit.						
Mr.NagendraBa	CPBPP7881Q	M.Sc	01/12/2022	Physics	Assistant Professor	21/12/2022	100	0	0	Yes	Regular	
Mr.Guruswamy	AVNPG2757L	M.Sc	05/03/2010	Mathematics	Assistant Professor	10/08/2022	100	0	0	Yes	Regular	
Mrs.Bhargavi k	EJEPB2992F	M.Sc	30/01/2021	Mathematics	Assistant Professor	11/07/2022	100	0	0	Yes	Regular	
Mrs.SANDHYA	DGAPG8806D	M.E/M.Tech	14/10/2020	CSE	Assistant Professor	29/08/2022	100	0	0	Yes	Regular	
Mrs.GANGA	VWBPG3564M	M.E/M.Tech	11/11/2019	CSE	Assistant Professor	24/02/2021	100	100	0	Yes	Regular	
Mrs.SAHANA E	CTJPB4025L	M.E/M.Tech	10/03/2022	STRUCTURES	Assistant Professor	04/10/2021	100	100	0	Yes	Regular	
Mrs.DIVYA P	BRSPD7696F	M.E/M.Tech	01/06/2013	CSE	Assistant Professor	29/08/2022	100	0	0	Yes	Regular	
Mrs. NISHANT	BFWPA3633P	M.Sc	15/02/2011	Chemistry	Assistant Professor	08/08/2022	100	0	0	Yes	Regular	
Mr.ABHISHEK	BOAPA5762E	M.Sc	28/02/2019	Mathematics	Assistant Professor	04/06/2022	100	0	0	Yes	Regular	
Mrs.SHRUTHI	FQWPS0877Q	M.Sc	07/02/2012	Mathematics	Assistant Professor	30/07/2014	0	100	100	No	Regular	31
Mrs.DIVYA S	BCPPD7749P	M.Sc	30/04/2014	Mathematics	Assistant Professor	16/08/2019	0	100	100	No	Regular	0!
Mr. GUNASEK	AZNPG2274N	M.Sc. and PhD	01/10/2019	Physics	Assistant Professor	25/10/2017	0	100	100	No	Regular	01
Ms.DIVYA HEC	AKFPH8961C	M.Sc	01/07/2016	Physics	Assistant Professor	17/08/2017	0	100	100	No	Regular	1!
Dr.SELVA GAN	FEOPS0367R	M.Sc. and PhD	31/08/2015	Chemistry	Associate Professor	02/08/2017	0	100	100	No	Regular	1:
Ms.SHWETHA	BLSPS3935E	M.Phil	07/07/2010	ENGLISH	Assistant Professor	17/09/2018	0	100	100	No	Regular	2
Dr.JYOTHIRLII	AZUPJ2564M	M.A and Ph.D	12/04/2012	KANNADA	Assistant Professor	12/10/2018	0	100	100	No	Regular	01
Dr.KAVITHA S	DQRPK9480E	ME/M. Tech and PhD	01/11/2018	STRUCTURES	Associate Professor	01/02/2018	0	0	100	No	Regular	1!
Ms.PALLAVI G	CSSPP4842D	M.E/M.Tech	09/02/2014	GEO TECHNICAL ENGINEERING L	Assistant Professor	01/08/2018	0	100	100	No	Regular	0.
Mrs.VIJYALAX	CUECK5370A	M.E/M.Tech	04/05/2013	CSE	Assistant Professor	19/07/2019	0	100	100	No	Regular	0!
Mrs.GAYATHR	CNNPK2224G	M.E/M.Tech	06/01/2015	CSE	Assistant Professor	26/08/2019	0	100	100	No	Regular	01
Mr.VISHWANA	ANRPN0680P	M.E/M.Tech	02/02/2014	SOFTWARE ENGINEERING	Assistant Professor	30/08/2019	0	100	100	No	Regular	01
Mrs.Sumathi	FIIPS0697J	M.E/M.Tech	15/01/2016	COMMUNICATION SYSTEMS	Assistant Professor	04/02/2019	100	100	100	Yes	Regular	
Dr. S. Anitha	ALQPA0498R	ME/M. Tech and PhD	01/08/2013	Signal and Image Processing	Professor	06/02/2017	100	100	100	Yes	Regular	

Year		Number Of Students(approved		umber of Faculty embers(considering fractional ad) F	FYSER (N/F)		ssessment= 20)/FYSFR(Limited to Max.5)
2020-21(CAYm2)	020-21(CAYm2) 540		33	1	16	6 5.00	
2021-22(CAYm1)	1-22(CAYm1) 540		35		15 5.00		00
2022-23(CAY) 63		630		;	18	5.0	00
Average		0		0	0		0

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

Total Marks 3.67

Institute Marks: 3.67

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]		
2020- 21	13	19	27	4.00		
2021- 22	12	21	27	4.00		
2022- 23	9	25	31	3.00		

Average Assessment: 3.67

8.3 First Year Academic Performance (10)

Total Marks 7.08

Institute Marks: 7.08

Academic Performance	2022-23	2021-22	2020-21
Mean of CGPA or mean percentage of all successful students(X)	6.84	7.23	7.17
Total Number of successful students(Y)	57.00	23.00	44.00
Total Number of students appeared in the examination(Z)	57.00	23.00	44.00
API [X*(Y/Z)]	6.84	7.23	7.17

Average API[(AP1+AP2+AP3)/3]: 7.08

Assessment [1.5 * Average API]: 7.08

8.4 Attainment of Course Outcomes of first year courses (10)

Total Marks 10.00

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

1.THEORY COURSES:

(The data for Co attainment is considered from the performance of students in internal tests and final university examinations)

- •Three internal tests are conducted during 5th, 10th and 15th week of the semester. Common question papers are set for all the courses common to all the programs.
- ·For the 2018 CBCS Scheme from the academic year 2018-19 onwards 40% of weightage is given for the performance in the internal test and 60% of weightage is given for the performance in final VTU examinations. Three internal tests were conducted for 50 marks and average of all the three tests were correspondingly reduce to 30 marks. Remaining 10 marks is towards assignment /unit test/written test/quizzes. A university examination for all courses under Semester End Examination (SEE) is conducted for a maximum of 100 marks and correspondingly is reduced to 60 marks for awarding the results.
- ·For the academic year 2019-2020 and 2020-21 of even semester due to COVID-19 pandemic situation the internal tests were conducted online. The procedure was as follows:
- oGoogle link MS Team link was provided to the students in the whattsup group for the question paper just before 10 minutes from the commencement of test timing.
- oThe student had to login to the MS team for his attendance and also the test session was monitored by the class teacher in MS team.
- oStudents have to submit the scanned copy of the internals and upload in the google from link-MS team link within 30 minutes of the closer the test timing.
- For the 2021 CBCS Scheme from the academic year 2020-21 onwards 40% of weightage is given for the performance in the internal test and 60% of weightage is given for the performance in final VTU examinations. Three internal tests were conducted for 50 marks and average of all the three tests were correspondingly reduce to 30 marks. Remaining 10 marks is towards assignment

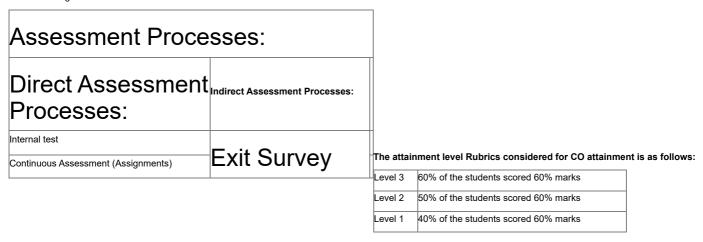
/unit test/written test/quizzes. A university examination for all courses under Semester End Examination (SEE) is conducted for a maximum of 100 marks and correspondingly is reduced to 60 marks for awarding the results.

2.LABORATORY COURSES:

- For the academic year 2019-20, 2020-21 batch 40% of weightage is given for the performance in the internal tests called Continuous Internal Evaluation (CIE) and 60% of weightage is given for the performance in University examination/ Semester End Examination (SEE). The CIE marks awarded shall be based on the weekly evaluation of laboratory journals/ reports after the conduction of every experiment evaluated for 30 marks and internal test will be conducted for 10 marks. Total internal marks are awarded for 40 marks and final university were conducted for 100 marks and correspondingly reduced to 60marks for awarding the results.
- ·For the academic year 2019-2020 and 2020-21 of even semester due to COVID-19 pandemic situation lab sessions and lab tests are held online. The lab rubrics will be changed as evaluation for all departments

3. CALUCLATION OF CO ATTAINMENT:

- CO attainment is based on 2 parameters: Internal Assessment (IA) and University End Examination (SEE).
- Internal Assessment (IA) is considered as direct method and University End Examination (SEE) is considered as indirect method for CO attainment.
- The target set for the CO attainment is 60% of Marks scored.



Target and attainment levels /Rubrics are same for the Internal Assessment (IA) and University End Examination.

Following procedure is followed for calculation of course outcomes attainment:

- Internal Assessment questions and assignment questions are mapped to COs.
- All the mapped questions from the Internal Assessment papers and assignment questions are considered for overall course attainment.
- · The semester end examinations marks are mapped to all CO's and the same is considered for calculation of CO attainment
- Percentage of students scoring target marks in the internal assessment tests. Assessment and University semester end examination is calculated.
- All satisfying values obtained are considered for deciding various levels of course outcome attainment.

8.4.2 Record the attainment of Course Outcomes of all first year courses (5)

Institute Marks: 5.00

Course Name	Course Outcomes	CIE attainment		SEE attainment	Total attainment
Calculus and Linear Algebra	CO1		2	2	2
18MAT11 C101	CO2		3	2	2.5
	CO3		3	3	3
	CO4		3	2	2.5
	CO5		3	3	3
Engineering physics	CO1		3	2	2.5
18PHY 12/22 C102	CO2		3	3	3
	CO3		3	2	2.5
	CO4		3	3	3
	CO5		3	2	2.5
Basic electrical engineering	CO1		3	2	2.5
18ELE13/33 C103	CO2		3	3	3
	CO3		3	2	2.5
	CO4		3	3	3
	CO5		3	2	2.5
Elements of Civil Engineering	CO1		3	2	2.5
18CIV14/24 C104	CO2		3	3	3
	CO3		3	2	2.5
	CO4		3	3	3
	CO5		3	2	2.5
Engineering	CO1		2	3	2.5
graphical Design Lab	CO2		3	3	3
18EGDL15/25 C105	соз		2	2	2
Engineering physics lab	CO1		2	3	2.5
18PHYL16/26 C106	CO2		3	2	2.5
	CO3		2	2	2
	CO4		3	3	3
	CO5		2	2	2
Basic Electrical Engineering Lal	CO1		3	2	2.5
18ELEL17/27 C107	CO2		3	2	2.5
Technical English –I	CO1		3	2	2.5
18EGH18 C108	CO2		3	3	3
	CO3		3	2	2.5
	CO4		3	3	3
	CO5		3	2	2.5
Advanced					
Calculus and Numerical Methods	CO1		3	2	2.5
18MAT 12/22 C109	CO2		3	3	3

4/6/23, 10:12 AIVI				Pfi		
	CO3	 3	2	2.5		
	CO4	3	3	3		
	CO5	3	2	2.5		
Engineering Chemistry	CO1	3	2	2.5		
18CHE 12/22 C110	CO2	3	3	3		
	СОЗ	3	2	2.5		
	CO4	3	3	3		
	CO5	3	2	2.5		
C programming for problem solving	CO1	3	2	2.5		
18CPS13/23 C111	CO2	3	3	3		
	CO3	3	2	2.5		
	CO4	3	3	3		
	CO5	3	2	2.5		
Basic electronics	CO1	3	2	2.5		
18ELN14/24 C112	CO2	3	3	3		
	СОЗ	3	2	2.5		
	CO4	3	3	3		
	CO5	3	2	2.5		
Elements of mechanical engineering	CO1	3	2	2.5		
18ME15/25 C113	CO2	3	3	3		
	соз	3	2	2.5		
	CO4	3	3	3		
	CO5	3	2	2.5		
Engineering Chemistry Lab	CO1	2	3	2.5		
18CHEL16/26 C114	CO2	3	1	2		
Programming in c laboratory	CO1	3	2	2.5		
18CPL17/27 C115	CO2	3	3	3		
	СОЗ	2	3	2.5		
	CO4	3	2	2.5		
Technical English –II	CO1	3	2	2.5		
18EGH28 C116	CO2	3	3	3		
	СОЗ	3	2	2.5		
	CO4	3	3	3		
	CO5	3	2	2.5		

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

Total Marks 20.00

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

Institute Marks: 15.00

POs Attainment:

Cauraa	DO4	PO2	PO3	PO4	PO5	PO6	P07	PO8	PO9	PO10	DO44	PO12
Course	PO1		2	2	PO5				PO9		PO11	PO12
C111	2	2	2			PO6	P07	PO8		PO10	PO11	PO12
C112	1	1	2	2 PO4	PO5	PO6	2 PO7	PO8	PO9 PO9	PO10 PO10	PO11	PO12
C113	2		1	2	2	P06	P07	PO8	PO9	PO10	PO11	PO12
C114	2	2	2	2	2	P06	P07	P08	P09	PO10	PO11	PO12
C116	2	2	2	2	2	P06	P07	3	2	2	2	3
C116	2		2	2	2	P06	P07	2	3	2	3	2
C117	PO1	1 PO2	PO3	PO4	PO5	P06	P07	PO8	2	2	PO11	2
			1									
C121	2	2		2	PO5 PO5	PO6	P07	PO8	PO9	PO10	PO11	PO12
C122	2	2	2	2		PO6	P07	PO8	PO9	PO10	PO11	1
C123	2	2	2	1	1	PO6	P07	PO8	PO9	PO10	PO11	1
C124	2	2	2	2	PO5	P06	P07	PO8	PO9	PO10	PO11	PO12
C125	1	2	2	2	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C126	2	2	3	2	2	2	3	3	2	3	2	2
C127	2	2	1	2	3	2	2	1	2	2	2	1
C128	PO1	PO2	PO3	PO4	PO5	PO6	P07	PO8	2	2	PO11	2
C231	2	2	2	2	PO5	P06	P07	PO8	PO9	PO10	PO11	PO12
C232	1	3	2	3	2	P06	P07	PO8	PO9	PO10	PO11	PO12
C233	2	2	2	2	1	PO6	P07	PO8	PO9	PO10	PO11	PO12
C234	2	2	3	2	2	P06	P07	PO8	PO9	PO10	PO11	PO12
C235	2	3	3	3	3	PO6	P07	PO8	PO9	PO10	PO11	PO12
C236	2	2	2	2	3	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C237	2	2	2	2	2	2	1	3	2	2	3	3
C238	2	2	2	2	2	PO6	P07	2	2	2	2	2
C239	PO1	PO2	PO3	PO4	PO5	PO6	P07	3	1	2	PO11	2
C241	2	3	2	PO4	PO5	PO6	P07	PO8	PO9	PO10	PO11	PO12
C242	2	2	3	3	2	PO6	P07	PO8	PO9	PO10	PO11	1
C243	2	2	2	2	1	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C244	2	2	1	PO4	PO5	P06	P07	PO8	PO9	PO10	PO11	PO12
C245	3	3	3	PO4	PO5	P06	P07	PO8	PO9	PO10	PO11	PO12
C246 CL247	3	2	2	PO4	PO5	PO6	P07	PO8	PO9	PO10	PO11	PO12
	2	3	2	2	2		P07	2	2	2	1	2
CL248	1	1	1	2	2	PO6	P07	2	2	2	1	2
C249	2	3	PO3	PO4	PO5	2	P07	1	2	PO10	PO11	PO12
C351	2	3	2	2	PO5	P06	P07	PO8	PO9	PO10	PO11	PO12
C352	3	3	3	PO4	3	P06	P07	PO8	PO9	PO10	PO11	1
C353	2	2	3	PO4	PO5	PO6	P07	PO8	PO9	PO10	PO11	PO12
C354	2	2	3	PO4	PO5	PO6	P07	PO8	PO9	PO10	PO11	PO12
C355	2	3	3	PO4	PO5	PO6	P07	PO8	PO9	PO10	PO11	PO12
C356	2	3	1	2	3	PO6	P07	2	2	1	2	1
C357	1	1	1	1	2	PO6	P07	3	2	2	2	1
C358	2	2	2	PO4	PO5	P06	3	PO8	PO9	PO10	PO11	PO12
C359	3	3	2	PO4	PO5	PO6	P07	PO8	PO9	PO10	PO11	PO12
C361	2	2	3	2	PO5	P06	P07	PO8	PO9	PO10	PO11	PO12
C362	2	2	2	PO4	PO5	PO6	P07	PO8	PO9	PO10	PO11	PO12
C363	2	2	2	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C3642	2	3	2	PO4	PO5	1	1	PO8	1	PO10	PO11	PO12
C3653	1	1	1	2	3	P06	P07	2	3	2	2	2
C366	2	2	1	2	2	PO6	P07	2	2	1	2	2

C367	2	2	3	2	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C368	2	2	3	2	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C471	2	2	2	1	PO5	PO6	P07	PO8	PO9	PO10	PO11	PO12
C472	2	2	2	2	PO5	PO6	P07	PO8	PO9	PO10	PO11	PO12
C4733	2	2	2	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C4743	2	2	2	PO4	PO5	1	2	PO8	PO9	PO10	PO11	PO12
C4753	2	2	3	2	2	2	P07	PO8	PO9	1	1	1
C476	2	1	1	2	2	1	2	1	2	1	1	1
C477	2	2	3	PO4	PO5	PO6	P07	PO8	PO9	PO10	PO11	PO12
C481	2	2	2	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C4824	2	3	2	2	1	2	3	2	3	1	2	1
C483	3	2	2	2	3	1	1	2	2	2	2	2
C484	3	3	3	2	2	1	1	2	3	2	2	2
C485	3	3	3	2	2	1	1	2	3	2	2	2

PO Attainment Level

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
Direct Attainment	2.02	2.15	2.10	2	2.1	1.46	1.83	2.11	2.14	1.81	1.89	1.68
CO Attainment	2.02	2.15	2.10	2	2.1	1.46	1.83	2.11	2.14	1.81	1.89	1.68

PSOs Attainment:

Course	PS01	PSO2
C111	1	1
C112	2	2
C113	3	1
C114	2	2
C115	2	2
C116	3	2
C117	2	2
C118	PSO1	2
C121	2	2
C122	2	2
C123	2	3
C124	3	1
C125	2	2
C126	2	1
C127	PS01	3
C128	PS01	2
C231	2	2
C232	2	3
C233	2	2
C234	1	2
C235	PS01	PSO2
C236	3	PSO2
C237	3	3
C238	2	2
C239	2	1
C241	2	2
C242	2	1
C243	2	2
C244	3	3
C245	2	2
C246	3	2
CL247	2	3
CL248	2	3
C249	1	1
C351	3	2
C352	2	1
C353	2	2
C354	1	1
C355	1	1
C356	1	2
C357	2	1
C358	PSO1	PSO2
C359	1	1
C361	2	1
C362	2	2
C363	1	2
C3642	PSO1	2
C3653	PSO1	2
C366	2	1

C367	1	1
C368	2	1
C471	PS01	2
C472	PS01	2
C4733	2	2
C4743	2	PSO2
C4753	PS01	2
C476	1	2
C477	2	2
C481	1	1
C4824	1	2
C483	1	2
C484	1	2
C485	1	2

PSO Attainment Level

Course	PSO1	PSO2
Direct Attainment	1.87	1.83
CO Attainment	1.87	1.83

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

Institute Marks: 5.00

POs Attainment Levels and Actions for Improvement- (2021-22)

POs	Target Level	Attainment Level	Observations	
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PO 1: Engineering Knowledge

PO 1 2 1.73 Basic Engineering fundamental knowledge of studimproved.	ents needs to be
----------------------------------------------------------------------	------------------

Action 1: Emphasized on Mathematical fundamentals before actually teaching concerned subject topics and made them solve more problems. Action 2: More problems will be given for practice. Action 3: More emphasis is given to teach fundamental concepts.

PO 2: Problem Analysis

DO 2	1.99	1 70	Students analytical skills are to be improved to analyze complex
PO 2	1.99	1.72	Engineering Problems.

Action 1:Mini projects are done to improve the analytical skills in the higher semesters Action 2: Preference given to hands on sessions during class hours in the coming semesters

PO 3: Design/development of Solutions

PO 3 2 1.66	Students ability to design solutions for complex problems needs to be improved
-------------	--------------------------------------------------------------------------------

Action 1:Encourage to carry out Projects on societal and environmental concerned issues Action 2:Students were made to design and implement additional programs during lab sessions.

PO 4: Conduct Investigations of Complex Problems

PO 4 1.85 1.66 synthesis of results.		PO 4	1.85	1.66	The state of the s	
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Action 1:Students were advised to refer relevant sources during literature survey to gain research-based knowledge. Action 2:Case studies are assigned to Students. Workshops are conducted to conduct investigations on complex problem with exhaustive input sets.

PO 5: Modern Tool Usage

PO 5	1.5	1.43	Usage of modern tool in the program needs to be improvised.			
Action 1:Hands-on sessi	Action 1:Hands-on session is conducted to learn modern tools.					

PO 6: The Engineer and Society

PO 6 1.5 1.39	Ability to map technology to give solutions to societal problems, needs to be strengthene
---------------	-------------------------------------------------------------------------------------------

Action 1:Students are encouraged to consider the impact of engineering solutions on Society, Health, safety etc., during induction program Action 2: Awareness created among students by conducting socio economic lectures. development.

PO 7: Environment and Sustainability

ositioning at a hipatron of the install contains	PO 7 1.9 1.41 Student need to be motivated to develop real time a considering the impact on environmental contexts.	application by
--------------------------------------------------	---------------------------------------------------------------------------------------------------------------------	----------------

Action 1:Students are encouraged to carry out projects related to environment and design sustainable solutions. Action 2: NSS activities are planned for socio economic development.

PO 8 : Ethics

	PO 8	1.5	0.96	Student knowledge to be enhanced more on professional ethics and responsibilities.
Action 1:Students were briefed about Ethics in Constitution of India and Professional Ethics. Action 2:Guest Lectures on professional ethics is conducted.		ction 2:Guest Lectures on professional ethics is conducted.		

Action 1. Students were briefed about Ethics in Constitution or India and Professional Ethics. Action 2. Guest Lectures on professional ethics is conducted.

PO 9 : Individual and Team Work

PO 9	1.5	1.2	Few Students need to be improved in Functioning effectively as an individual and as a team leader.
Action 1:Students are ma	ade to present individually in Techn	ical seminar. Action 2:Group activiti	es are conducted Action 3: Promote students leadership qualities by

providing platform for co-curricular and extra-curricular activities.

PO 10 : Communication

PO 10 2 0.9	The communication and presentation skills areto be further improved among the students.
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Action 1:Students were advised to speak in English Action 2:Training and Placement department conducts soft skills training, technical training, Group Discussions and etc., to improve the communication and write-ups. Action 3:Course wise student presentations are conducted

PO 11: Project Management and Finance

PO 11	1.5	1.03	Planed to attain in the next academic year.
Action 1:Guest lecture is conducted to learn cost estimation and cost-effective techniques by taking practical examples.		aking practical examples.	

PO 12: Life-long Learning

PO 12	1.6	1.58	Learning habit among students can be strengthened.
	1		

Action 1:Students were instructed to understand and learn the concepts well, because they have to use certain concepts throughout their profession. Action 2:Motivate students for higher studies Action 3:Motivate students for learning new technologies

PSOs Attainment Levels and Actions for Improvement- (2021-22)

PSOs	Target Level	Attainment Level	Observations
	I .	I .	

PSO 1: To Analyze, design and develop solutions by applying foundational concepts of Electronics and Communication Engineering.

PSO 1	1.8	1.64	Target is not achieved. In the course 18EC32-Network Theory, the understanding and solving complex problems is tedious for students In the course 18EC33-Electronic Devices, the student have difficulty in understanding the basic concepts behind the design of circuits. In the course 18EC52-Digital Signal Processing, the understanding and solving complex problems is tedious for students.
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Action 1: For slow learners extra classes will be handled to make the student understand better. Action 2: Assignments will be given to students to analyze the methods which are used to solve and arrive at solutions. Action 3: To enhance professional skills: seminars, guest lectures, technical talks will be arranged with academic and industrial experts.

PSO 2 : Design and implement the products using cutting edge technologies in hardware and software, to demonstrate leadership qualities among students, to promote research and development activities for betterment of organization and society.

PSO 2	1.8	1.81	Target achieved.	

Action 1: Along with project work, the students are advised to think Innovatively in their interested subjects and take up that idea to implement. Action 2; IIC activities is conducting for students. Action 3: Motivating students to choose multi disciplinary projects.

9 STUDENT SUPPORT SYSTEMS (50)

Total Marks 50.00

 $\textbf{9.1 Mentoring system to help at individual level} \ (5)$

Total Marks 5.00

Institute Marks: 5.00

The institution has well defined mentoring process for all the programs. The mentoring system is established with the following objectives.

- 1. Interact with the students and help them to face challenges.
- 2. Monitor the academic progress.
- 3. Enhance interpersonal skills
- 4. Understanding the student potential and enhance their career planning skills.
- 5. Motivate the students to participate in Co-curricular and extra-curricular events

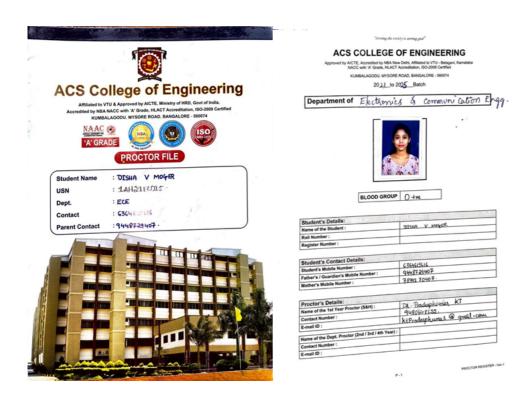
Process of mentoring:

At the start of the first semester, a Mentor is assigned with 20 students. Each mentor keeps a Mentor Book that includes information about the mentors, parents or guardians, including name, address, phone number, and academic information. The Mentee is instructed to fill out the entire mentor book with relation to his/her personal information. The Mentor book includes information on attendance, performance on internal examinations, information about counseling following the internal tests, and university results, followed by an undertaking from the student and parent. The mentor records every exchange between himself and his mentee over the whole semester. For the eight semesters, this data on mentor-mentee interactions is maintained. The mentor book also includes information about the academic details like projects, internships,

conferences, and seminars, as well as co-curricular and extracurricular activities.

SI.No.	Proctor level	Particulars	
	i loctor level	Mentor	Faculty act as a Mentor
		No. of students	20
1	Level-1, Mentor System	Frequency of meeting	Meeting is conducted every month after the internal assessment.
		Parent Teacher interaction	The parent feedback is collected.
2	Level-2, Mentor System	Mentor Coordinator /HOD counselling	The feedback collected will be referred by mentor coordinator/HOD for corrective measures based on the requirement.
3	Level-3, Mentor System	Counselling by Principal	After the second level ,the students will be counselled by Principal if required.
4	Level-4, Mentor System	Professional Counselling	After the third level of counselling ,the students may be referred to Professional counsellors based on the need.

SAMPLE MENTOR BOOK



Behavioral / Psychological Profile during (1st Semester)

	rear (18t 5	emester) U	niversity Ex			SH1342079	200	F 2 (F 15)
SL No.				Grades Secured (Attempt			4th	SGPA
1.	DI MW II	Calculus and	1 Atlandal	91	-		The gallet	D
2.	2174721		"	77				
3.	PIELE 13	Baye elubi		72	1		1	-
4.	SICIVL4	Closural go		73				
5.	PIEV IS	Engineering	COURT N	93		1	12.114	100
6.	RIPHY16	Engineering	thy lab	92				
7.	AIREI7	D	Istal	78			11	100
8.		Technical		88				
144				77.962	talled 55	SPER .	7575 Sa 167	o vien
	Year (1st S	iemester) S	ubject Teac	her's De	T 11 (10 A 10 A	SCHOOL S	1211.9.6	2 15 15 15
SI. No.	Narr	ne of the Cour	se / Subject		Subject	Teacher's N	lame	Dept.
1.	Calulus	and diffuse	Halowet	en M	Divug.	Dr. Pradu	kumar KT	
2,		."						
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3.		ning physic					Arondhi D	
3.	Bance	1 . 10	nginearing.	N	r Ramk	umaš		
4.	Basic	و لنبت ا	engineering and mediani engintering	CF Dr	r Ramk HI Gov	ordhon s	Swarry	
4. 5.	Bance	و لنبت ا	nginearing.	G Dr	nr Ramk HI Gov ir Chand	umat ordhan s loshekar	Swany	
4. 5. 6.	Basic	didicial a	engineering and mediani engintering	M Dr	nr Ramk H1 Gov ir Chand Selvarib	umas ordhon s koshekas o 5/ms	Ssearny Arardhi D	
4. 5.	Basic of Stements	didicial a	engineering and mediani engintering	M Dr	nr Ramk HI Gov ir Chand	umas ordhon s koshekas o 5/ms	Searry Arardhi D	
4. 5. 6.	Engine Engine	dedicial a of child oring Kissi oring Physic electrical	adiosering any metering alreation is lab	M Dr	nr Ramk H1 Gov ir Chand Selvarib	umal ordhan s koshekar o s/ms en Pate	Searry Arardhi D	
4. 5. 6. 7. 8.	Basic of Stevens	electrical a of could uring release uring playsis electrical and conf	adration s lab	Dr.	or Ramk HI Gov Chand Selvarible	umal ordhan s koshekar o s/ms en Pate	Searry Arardhi D	
4. 6. 7. 8.	Basic of Stevens	district of conditions of conditions of conditions of conditions of the conditions o	alration s lab lab raining Det	Dr.	or Ramk HI Gov Chand Selvarible	wmas widson s widson on s/ms on Pate hwetha	Searry Arardhi D	
4. 6. 7. 8.	Basic Standard English	district of conditions of conditions of conditions of conditions of the conditions o	alration s lab lab raining Det	Dx ails:	or Ramk HI Gov Chand Selvarible	wmas widson s widson on s/ms on Pate hwetha	Arandhi pi	
4. 5. 6. 7. 8.	Basic Standard English	district of conditions of conditions of conditions of conditions of the conditions o	alration s lab lab raining Det	Dx ails:	or Ramk HI Gov Chand Selvarible	wmost ordbon lowbekes or 5/ms en Pate Dwetha	Arandhi pi	
4. 5. 6. 7. 8.	Range of Training	ductions of child	anglessing and anglessing angless	Dx ails:	nr Ramk HI Gov Vr Chand Starth	umal ordhan : lrashekan organiza organiza	Arrandli Di	
4. 5. 6. 7. 8. Typ	Route (Stemanh English English English Tellor Year (1st Stee of Training	dictrical of child of	anglessing and anglessing angless	Dx ails:	hr Ramk Ht Gov V Chand Scharble MIK S Departm	ordion stratekan ordinas stratekan ordinas pate	Arrandli Di	sct No.
4. 5. 6. 7. 8. Typ	Range of Training	dictrical of child of	anglessing and anglessing angless	Dx ails:	nr Ramk HI Gov Vr Chand Starth	ordion stratekan ordinas stratekan ordinas pate	Arrandli Di	sct No.
1 st Type	Route (Stemanh English English English Tellor Year (1st Stee of Training	dictrical of child of	anglessing and anglessing angless	Dx ails:	Departm	ordion stratekan ordinas stratekan ordinas pate	Arrandices Arrandices Grantis Contails	sct No.

The mentoring process has improved the overall performance of the students.

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

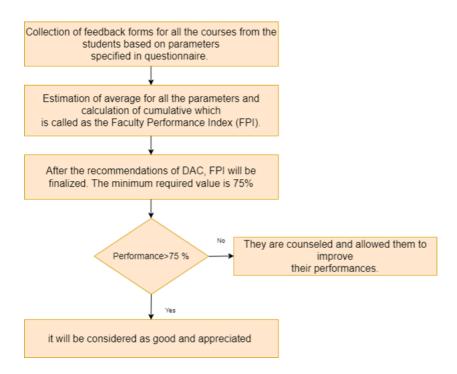
Total Marks 10.00

Institute Marks: 10.00

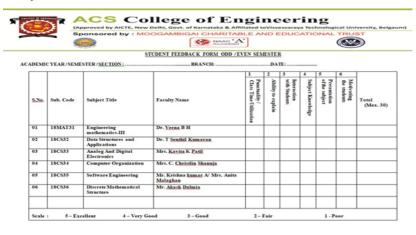
- A scale from 1 to 5 is used to rate Faculty feedback (5-point scale).
- An Assessment Committee led by the Head of the department analyses the student response after it has been collected.

The feedback collected from students is analyzed by Department Advisory Board (DAB). Performance of each individual faculty is assessed and corrective measures are listed (if any). Feedback will be shared to individual faculty with necessary advice on the factors to be improved.

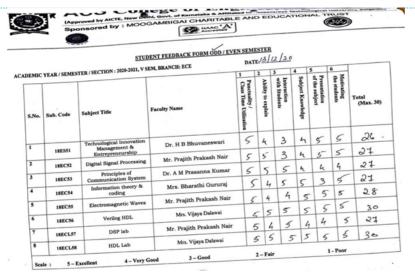
All the courses mentioned in the feedback form are analyzed as follows



Faculty Feedback Form



Student Feedback Form Sample Report



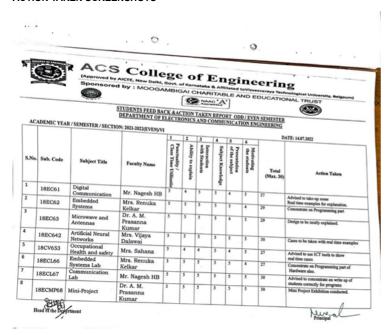
A list of the corrective actions taken by the Head of the department

- Remedial measures are suggested for improvement and are documented if feedback is less than 80%.
- Necessary advice by the Head of the department
- · Encouraging faculty to participate in Faculty Development Programs (FDP) that focus on efficient teaching techniques.

Effectiveness

The improvement of the faculty performance with respect to parameters is reflected in the subsequent feedback.

ACTION TAKEN SCREENSHOTS



9.3 Feedback on facilities (5) Total Marks 5.00

Institute Marks: 5.00

Student's feedback about college facilities are gathered annually. In accordance with the comments, necessary actions are done. The students can share their opinions and recommendations regarding the amenities. After discussions, the institutions head, in consultation with the management, took corrective action. Student feedback is gathered, analyzed, and corrected actions are used as the basis for assessment.

The following procedures are followed for collecting facility feedback:

- 1. The procedure of gathering Feedback
- 2. Feedback evaluation
- 3. Corrective measures

Feedback gathering procedure:

Objectives	Descriptions
Feedback gathered regarding college facilities.	Yes
Feedback collection process	Feedback forms are given to the students
Feedback cumulative reports are Collected	Head of the Department/Principal
The frequency of feedback gathering	Once in an academic year
Measurements used in calculations	5 point- scale(excellent, very good, good, fair, poor)
Purpose	To improve the quality of teaching

Students Feedback Survey on Facilities

Rate the availability of the following facilities:

(Excellent)) 5 4 3 2 1	(Not Satisfactory)
-------------	-------------	--------------------

Class Rooms	5	4	3	2	1
Laboratories	5	4	3	2	1
Restrooms	5	4	3	2	1
Common Rooms	5	4	3	2	1
Cafeterias / Canteen	5	4	3	2	1
Parking	5	4	3	2	1
Drinking Water	5	4	3	2	1
Fire Extinguisher	5	4	3	2	1
Play Ground	5	4	3	2	1
Sports Equipments	5	4	3	2	1
Auditorium	5	4	3	2	1
Swimming Pool	5	4	3	2	1
Gymnasium	5	4	3	2	1

Rate the satisfaction of the following facilities:

(Excellent) 5 - - 4 - - 3 - - 2 - - 1 (Not Satisfactory)

State of Technology used in laboratories

5 4 3 2 1

State of equipments in laboratories

5 4 3 2 1

ICT Tools

(5) (4) (3) (2) (1)

Cleanliness

5 4 3 2 1

Orderliness

3 2

9.4 Self-Learning (5) Total Marks 5.00

Institute Marks: 5.00

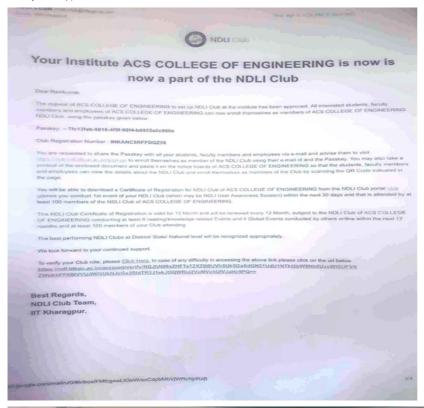
Self-Learning: The academic performance of the student enhances through self-learning. It helps the students to gain the knowledge and learning beyond syllabus. The Institution takes maximum care to provide the necessary facilities to ensure self-learning. The facilities include Library(at college level and at department level), Internet facility, online journal subscription, VTU e consortium resources, VTU Edusat program.

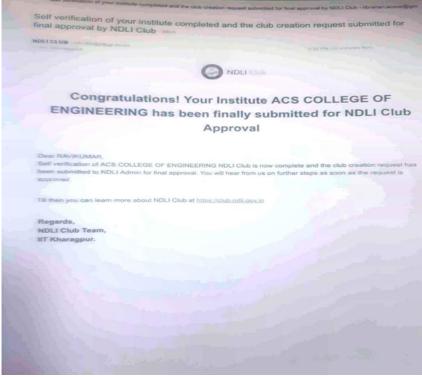
A. The Institution needs to specify the facilities, materials for learning beyond syllabus, Webinars, Podcast, MOOCs etc. and demonstrate its effective utilization. Detailed list of resources for self-directed learning:

LIBRARY

The ACSCE Library and Information Centre started in the year 2009 at Kambipura, Bengaluru managed by the Moogambigai Charitable and Educational Trust with an initial collection of 6000 volumes of textbooks, 82 National & International Print Journals and with other necessities. It has housed in the college building Ground Floor with a total area of 360 Sq. Mtrs. with good and well equipped with lightings, furniture's & ventilation. Presently it is moved to 6th floor of the same building with the 15,488 Sq. Ft. with all the advanced facilities & services (details mentioned in the next slides). To catering to the needs of all specialties of UG & PG, Research & Developmental activities having the collection of around 16500 volumes, 62 National & International Print Journals, Back Volume of Journal, e- Resources and many more with seating capacity of 320 students & faculty well ventilation, lightings & furnitures.

Library NDL Approval





LIBRARY FACILITIES

- Automated through RFID circulation counters.
- · Reference Section.
- Digital Library service.
- e-Journals facility.
- Print version Journals and Magazines.
- Previous Question papers.
- Internet centre for browsing.

LIBRARY VIEW





















LIBRARY ADVISORY COMMITTEE

S.No	Name of the Faculty	Designation a	Library Advisory committee (LAC) Designation
1.	Dr. M S Murali	Principal	Chairperson
2.	Dr. Prasanna Kumar	Professor	Member
3.	Prof. Sivasankar	Asst. Professor	Member
4.	Mr. Kiran. R	Chief Librarian, Library	Member
5.	Mr. Ravikumar. N	Librarian, Library	Member

Library Resources as on February, 2020

Sr. No.	Source Details	Collection
1.	Collection of Titles/Textbooks	
	Total No. of Textbooks	19860
	Total No. of Title	3598
2.	Current Year Periodicals	
	National Journals	53
	International Journals	17
	New Papers	12
3.	e-Resources (Online Journals) through VTU Conso	rtium
		of Civil Engineers, Emerald (Mgt.) Datebase:BSB BIS etual Acecess) Remote access, Turnitin (Plagiarism
4.	Institutional Membership	British Library
5.	Bound Volume of Journals	88
6.	Non-Book Materials	
	CD-ROM/DVDs	657
	In addition we have EDUSAT e-Learning Program & NPTEL Lecture notes	
	Computers	25
	Book Bank	

Books & Journals details as on February, 2020

SL. No	Department	No of Titles	No of Volumes	No. of Jou	rnals	E – journals Member of VTU
		THES	Toldines		Consortium	
1	Comp. Science Engg.	546	3104	8	2	Elsevier Taylor & Francis, Springer
2	Electronics & Communication Engg.	696	3910	8	2	Nature, Institute of Civil Engineers, Emerald
3	Mechanical Engg.	440	2542	8	2	(Management) Databases :BSB BIS Standards,
4	Civil Engg.	454	2589	8	2	Scopus Database (only for VTU) E-Books
5	Aeronautical Engg.	465	2126	6	2	(Prepetual Acecess)Packt, Taylor & Francis,
6	Biomedical Engg.	514	1898	6	2	MGH, Elsevier SD, New Age K-
7	Aerospace Engineering	32	179	6	2	Nimbus e- library+ Remote Acces,
8	Science & Humanities	451	3512	3	3	Netanalytiks Platforms & Turnit in (
	TOTAL-	3598	19860	53	17	Plagiarism Software Online Tool)

E-Learning

ACS College of Engineering has the E-learning facility that helps teachers to provide opportunities for mutual discussion, access to online resources. This basically enhances the quality of education by making communication smooth and fast between the teacher and learner. E-learning is the innovative mode of learning with the help of communication technologies (ICTs). It comprises of the use of ICT based tools (e.g. Internet, computer, telephone, radio, video, and others) and content created with technology (e.g. animations) to support teaching and learning activities. [su_accordion] [su_spoiler title="Online Data Base" style="fancy"] NPTEL Jgate [/su_spoiler] [su_spoiler title="E-Reference" style="fancy"] 1.Camb 2. Foreign Language Dictionary-French 3. Foreign Language Dictionary-Spanish 4.Glossary 5.Librarian's Index to the Internet 10.Subject Dictionary-Library and Information Science 11.Subject Dictionary-Science 11.3 subject Dictionary-Technology
13. Wikipedia [/su_spoiler] [su_spoiler] [su_spo 5. Selected internet resources in all subjects 6. Social Science Information gateway [/su_spoiler] [su_spoiler title="Open Access E-Books" style="fancy"] 1.Access to Global online Research in Agriculture (AGORA) Research in Agriculture (AGUNA)

2. Bioline international – Open Source Journals

3. CIMMYT: an international Maize and Wheat Improvement Centr

4. Directory of Open Access Journals

5.EPW (Economic and Political Weekly) 6.European Scientific Co-operative on Phyto therapy - European Phyto journal - free online 7.Evidence-Based Complementary and Alternative Medicine

8. Electronic Resources for Mathameticians Science

9.Free Medical Journals

10.Free On-line Chemistry journals

11. Health Inter Network Access to Research Initiative

12. High Wire Press hosts the largest repository of free full-text peer-reviewed content

13.Indian Academy of Sciences (IAS)

14.International Network for the Availability of Scientific Publications (INASP)

15.INSPIRE- HEP L iterature Database

16.Indian Academy of Sciences Publications

17. Journal of Postgraduate Medicine

18.myownjournal

19.Med Indian-medical journals - full text of 33 Journals

20. Molecular Diversity Preservation International (MDPI)

21.National Preservation Office - NPO

22. Nature Proceedings - Preprint server for the Life Science community.

23. Nature Publishing Group - Open Access Journals

24. Nutrition Bytes - Free full text

25.0MICS Publishing Group - Open Access Journals

26. Open Access Library (OALIB) - Free Access to 263,388 Academic Articles

27.Open Science Directory - Developed by EBSCO and the Hasselt University Library

28.Palgrave Macmillan - Open Access Journals

29. Physics related free access journals

30.PSI gate provides access to evaluated network based information services and resources in the physical sciences.

31. Public Library of Science - premier open-access journals in Biology and Medicine

32. Publisher of more than 150 peer-reviewed Open Access Journals

33.SAGE Open Subject Collections

34. Social Science Research Network (SSRN) - Worldwide dissemination of social science research.

35. Springer Open gives you free access in Science, Technology and Medicine.

36. The African Journal Archive

37.The U.S. National Institutes of Health (NIH) free digital archive of biomedical and life sciences journal literature.

38. University of Tennessee - Research Guides - Citation Formats and Style Manuals, Databases and other e-resources collection.

39. Wiley Open Access Journal [/su_spoiler] [/su_accordion]

Encouragement for e-shikshana and online courses:

The institute has registered with multiple portals in order to give students and staff access to sign up for various online courses and certifications through the organizations listed below, as well as to stay up to date with cutting-edge technical innovation.

Infosys Limited

PRIVACY & DATA PROTECTION AGREEMENT On the Processing of Personal Information/Data by Contract ("Data Processing Agreement"/ "DPA")

By and Between "Infosys"

[InfosysLimited](and their subsidiaries, parent, and affiliates)

with its registered office at

[Plot No. 44 & 97A, Electronics City, Hosur Road, Bangalore -560100, Karnataka, India]

And "Partner"

[ACS College of Engineering, Bangalore] (and their subsidiaries, parent, and affiliates)

with its registered office at

[#202,Kambipura,Mysore Road,Bangalore-560074,Karnataka,India]

each a "Party"; together "Partles"

1. Definitions:

- I. 'Personal data/information'(hereinafter "PI") shall mean any information/data relating to an identified or identifiable natural person ("data subject"). For the purpose of this definition, PI may also include Sensitive Personal Information, as per Applicable Privacy Laws, including without limited to (I) a first name, last name or initials; (II) a home or other physical address; including street name and name of city or town; (II) an email address or other online contact information; (IV) a telephone number; (v) a social security number, tax ID number or other government-issued identifier; (vi) an internet Protocol ("IP") address or host name that identifies an individual; (vii) a persistent identifier held in a "cookie" that is combined with other available data that identifies an individual; (viii) birth dates, (Ix) Personally identifiers, racial or ethnic origin, political opigions, religious or philosophical beliefs, trade-union membership, health or sex life. Additionally, to the extent any other information (such as, but not necessarily limited to, IP addresses, other unique identifier, or biometric information is associated or combined with PI, then such information also will be considered PI. PI may as well include information relating to legal entities, if so required by the applicable law.
- ii. 'Applicable Privacy Laws' refers to all laws, rules, regulations and standards that are designed to protect the privacy rights or privacy expectations of the Partin's (the term includes all subsidiaries and affiliates of the Parties), their employees, clients and client - customers and any other third party worders.
- El. 'Data Controller' or 'Controller' means the entity that determines the purposes and means of Processing of Personal Data, either alone or jointly with another entity.
- Iv. 'Data Subject' means any individual whose Personal Information is collected, used and/or processedunder this DPA for the business purpose(s) of the Parties. Explanation: list includes employees, clients, client customers, agents, contractors.
- v. "Technical and Organizational Security Measures' means those measures aimed at protecting personal data against accidental or unlawful destruction or accidental loss, alteration, unauthorized

· University of Aberdeen



School of Engineering Fraser Noble Building, King's College Aberdeen AB24 3UE, Scotland, UK

> Direct Tel: +44 (0) (224-272817 Fax: +44 (0) 1224-272497 Mobile: +44 (0) 7908-003241 email: k.nakkeeran@abdn.ac.uk

MEMORANDUM OF AGREEMENT FOR ACADEMIC COLLABORATION Between

Between
ACS COLLEGE OF ENGINEERING
(A UNIT OF RAJARAJESWARI GROUP OF INSTITUTIONS, BANGALORE, INDIA)

and
SCHOOL OF ENGINEERING, UNIVERSITY OF ABERDEEN
SCOTLAND, United Kingdom

Whereas the above named institutions recognize that academic collaboration would be of mutual benefit and would provide strengths in research and education and their mutual interest in engaging themselves in academic cooperation with the Rajarajeswari Group of Institutions and the School of Engineering, University of Aberdeen, Scotland, UK, it is agreed that:

Faculty

Each institution will promote the exchange of faculty for teaching and/or for collaborative research programs in the area of Engineering.

Students

2.01 Each institution will promote internship or/and semester exchange of qualified undergraduate and/or graduate students in the other's academic programs.

a. Exchange: Each student involved in an exchange program will be subject to the admission requirements, tuition and fees of the host institution. Language competency must be at a level that will allow participating students to attend classes in the language of the host institution.

b. Internship: Students will not pay tuition or fees that are involved at the host institution in an internship program as it does not include enrolling in classes. Application for the internship should be submitted to the faculty coordinators of this agreement.

2.02 Students will be responsible for their own transportation to and from the host institution, as well as for their room board, insurance and any other necessary fees while attending the host institution.

·ICT Academy



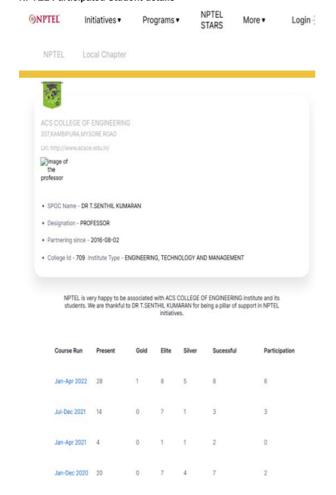
Value Added Courses

These courses are conducted by professionals and industry experts and help students stand apart from the rest in the job market by adding further value to their resume.





NPTEL Participated Student details



Spoken Tutorial -IIT Bombay





IIT Bomb

Letter of Association

19th August 2021

: (+91-22) 2572 2545

To, The Principal, ACS College of Engineering Mysore Road, Bengaluru, Karnataka 560074

We are happy to announce the ASSOCIATION of Knowledge Partner Spoken Tutorial MOOCs Training Program, IIT Bombay with ACS College of Engineering, Bengaluru, Karnataka.

The Program is a part of the National Mission on Education through ICT, MoE, Govt. of India, to spread IT Literacy all over India. We are promoting the learning and usage of Free & Open Source Software (FOSS), through an Audio-Video teaching tool, viz, 'Spoken Tutorial'. We support and motivate colleges to train students on Basic Computer Skills, Software and IT. The course and the training is offered for Rs. 25,000 per year to all the Colleges.

You are making an outstanding contribution by using ICT based teaching and learning methodology for students of your College.

Yours Sincerely,

For and On behalf of Spoken Tutorials,

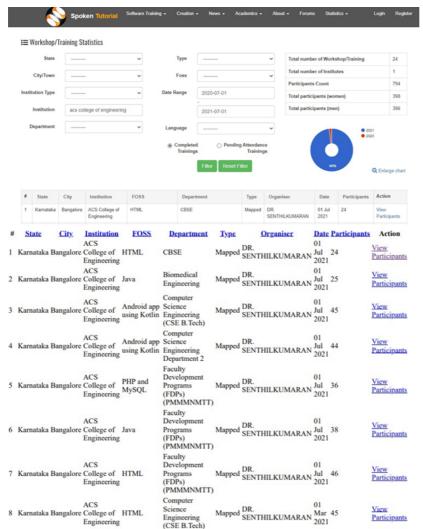
Indian Institute of Technology Bombay

Shyama Tyes.

Mrs. Shyama Iyer
National Coordinator

Spoken Tutorial Project, IIT Bombay

Student registration in Spoken tutorial in the year of 2021



12 Karnataka Bangalore	ACS College of Engineering		(FDPs) (PMMMNMTT) Faculty Development Programs (FDPs) (PMMMNMTT)	Mapped	DR. SENTHILKUMARAN	01 Mar 2021	24	<u>View</u> Participants
13 Karnataka Bangalore	ACS College of Engineering		Electronics and Communication Engineering (B.Tech)	Mapped	DR. SENTHILKUMARAN	01 Mar 2021	40	View Participants
14 Karnataka Bangalore	ACS College of Engineering		Electronics and Communication Engineering (B.Tech)	Mapped	DR. SENTHILKUMARAN	01 Mar 2021	31	<u>View</u> <u>Participants</u>
15 Karnataka Bangalore	ACS College of Engineering		Computer Science Engineering Department 2	Mapped	DR. SENTHILKUMARAN	01 Feb 2021	44	View Participants
16 Karnataka Bangalore	ACS College of Engineering		Computer Science Engineering Department 2	Outside	DR. SENTHILKUMARAN	01 Jan 2021	44	View Participants
17 Karnataka Bangalore	ACS College of Engineering		Computer Science Engineering (CSE B.Tech)	Mapped	DR. SENTHILKUMARAN	01 Jan 2021	45	View Participants
18 Karnataka Bangalore	ACS College of Engineering		Computer Science and Engineering (B.Tech)	Mapped	DR. SENTHILKUMARAN	01 Jan 2021	99	View Participants
19 Karnataka Bangalore	ACS College of Engineering	C and Cpp	Biomedical Engineering	Mapped	DR. SENTHILKUMARAN	01 Jan 2021		View Participants
20 Karnataka Bangalore	ACS College of Engineering		Computer Science and Engineering	Mapped	DR. SENTHILKUMARAN	01 Jan 2021	2	View Participants

HACKTHON CONDUCTED BY ACSCE IN 2020



Smart India Hackathon -2022







Events conducted details for the Academic Year 2021-2022

SI.No.	Name of the Conference/Webinar/FDP etc. organized	Date-Month- Year	Resource Person with Designation	% of students	
1	Webinar on Embedded System & IOT	06-Dec-2021	Satish Pantech Solutions Pvt.Ltd	85%	
!	Webinar on Industry 4.0 Smart Factories	31-Jan-2022	Dr. S. V. Sathish, Professor & HOD Mechanical Department, PES University	80%	
3	Webinar on Hands on LabVIEW & Virtual Instrumentation	31-Jan-2022	Mr.Vasanth Kumar V, Assistant Manager, VI Solutions	70%	
1	Webinar on 5G Key Technologies for Industry 4.0 & Hands-on Using Matlab 5G toolbox OMNET++ & NS3	01-Feb-2022	Dr. Siddalingappa Birader, Dayananda Sagar Acadamey of Technology & Management	70%	
5	Webinar on Hands on LabVIEW Based Data Acquisition & Sensor Integration Mr. Rajkumar, Senior Application Engineer, VI Solution		90%		
5	Webinar on Industry 4.0,Implementation with IOT & its research challenges	02-Feb-2022	Dr. Muralidhar Kulkarni, Professor, Department of ECE, NIT	85%	
7	Webinar on Digital Transformation Technologies 03-Feb-2022 Cloud Overview with Industry 4.0		Mr. Santhosh A Chachadi, Manager, Cloud Operations, SAP LABS India	80%	
3	Webinar on Hands-on LabVIEW Based Control System Design & UI Development	d Control System Design & 03-Feb-2022 Application Engineer, VI		80%	
)	Webinar on Implementation of Industry 4.0, Adoption in Various Sectors and Case Studies	04-Feb-2022	Mr. Vasanth Kumar & Mr. SatyaNarayan, Assitant Manager, VI Solutions	70%	
10	Webinar on Stress Management, Emotion & Physical Health	04-02-2022	Dr. Shivashankar P Shenoy	85%	
l1	Seminar on Carrer Guidance Program	09-Apr-2022	Mr. Ramesh P	75%	
12	Industrial Visit on Di-facto Robotics & Automation Pvt Ltd	28-Apr-2022	Mr. Arun Kumar Singh	80%	
13	Workshop on Microwave Technology	06-May-2022	Mr. RaviKumar, Technilab Instruments	85%	

14	Workshop on IOT & its Implementation	09-May-2022	Mr. Kushal, Edgate Technologies	75%
15	Seminar on Career Guidance	10-May-2022	Mr. Chowdary, BE Pratical Solution	90%
16	Project Exhibition	29-Jul-2022	Dr. A M Prasanna Kumar	85%

9.5 Career Guidance, Training, Placement (10)

Total Marks 10.00

Institute Marks: 10.00

Training and Placement Cell of A C S College of Engineering has evolved and emerged as a destination for many National and Multi-National organizations to recruit the fresh talent nurtured in the campus. In the journey towards excellence, many milestones were also set by the Department in terms of Quality and Quantity. The excellent infrastructure facilitates the smooth functioning of various Training & Placement activities.

Training and Development Programs are conducted for students and faculty in a phased manner in order to achieve the desired results and set targets. Regular mentoring and one-on-one counseling has been done to the students facing difficulties in recruitment activities.

The consistent placement record illustrates the commitment towards progress of the institution. Many high profile companies like SRIT-Dubai, Capgemini, Tech Mahindra, Mphasis, hp, Siemens, Robert Bosch, L&T Infotech, IBM, Microland, Infosys Technologies, PARK Controls & Communications, SUBEX, Alpha9Marine solutions, visit and conduct Placement activities regularly.

Vision

To reduce the gap between candidate skills and industry needs by producing competent resources equipped with personality development and campus recruitment training along with professional etiquette & providing them the best possible opportunities to thrive in their career.

Mission

The training and Placement team of ACS college of Engineering is dedicated towards achieving maximum placements and spares no effort in maintaining sterling rapport with industries. Preparing the recruitment schedule of the year by inviting corporations for association and coordinating with the HR Team to ensure the smooth functioning of the final recruitment process are its major responsibilities. Meanwhile, numerous training programs, workshops, seminars, Industry interactions, and also industry visits are conducted by the team. Regular one-on-one counseling is done for the betterment of the students facing difficulties in different rounds of interviews. Faculty Development Programs are conducted concentrating on 360 degree improvement in student performance along with the skill development of the faculty. The department also holds the responsibility of entrepreneurship development cell that nurtures job givers. The training and placement cell, guided by certain rules and principles, majorly the team strives for the well-organized and successful processing of all the events taken up.

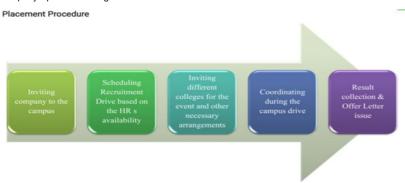
Training Activities

Induction Program to the students in the 1st year of Engineering Personality Development Training

Career Guidance Seminars by experts

Personalized counseling to those students who need help in preparing for placements Campus Recruitment Training by experienced Industry professionals.

Company Specific Trainings

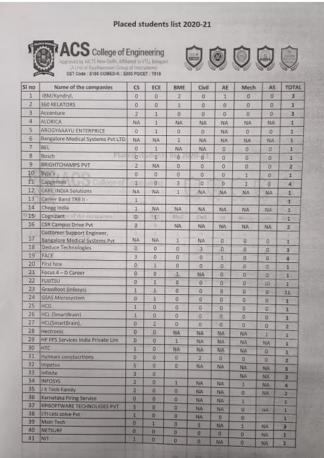


Facilities Provided to the Recruiters

- Auditorium with seating capacity of 3000 to conduct Pre-placement Talk
- Integrated Labs with around 200 computers having robust Internet connection for online tests
- Vast space for offline tests
- Separate rooms for conduction of Group Discussion and Personal Interview
- Enthusiastic team of volunteers for assistance
- · Excellent environment for smooth running of the process

Our Recruiting Partners





Sample Offer Letter

2021

Cognizant

6



22-Nov-2021

Dear Athira K, B.E., Electronics & Communication Engineering ACS College of Engineering, Bangalore

Candidate ID - 1896929

Thank you for exploring career opportunities with Cognitzant Technology Solutions India Private Limited ("Cognizant") You have successfully cleaned our initial selection process and we are pleased to make you an offer of employment. This offer is based on your profile and performance in the selection process.

You have been selected for the position of Programmer Analyst Traine

During your probation period of 12 months, which includes your training program, you will be entitled to an Annual Total Remuneration (ATR) of INR 461,888. This includes an annual target incentive of INR 22,506 — as well as Comparatins contribution of INR 18,060 clowards benefits such as Medical, Accident and Life Insurance. The incentive amount may vary, depending on Cogitizant's performance and your performance In other details about your comparation are detailed in Compensation and Benefits. Your compensation is highly confidential and if he need areas, you may discuss it only with your Manager.

On successful complete complete on the probation period, clearing the required training assessments and subject to you being part of a delivery project, your Annual Total Remuneration (ATR) would stand revised to INR Rs. 459,500.1 is set of the Rs. 459,500.1 is well as Cognizant's contribution towards benefits such as Medical, Accident and Life Insurance, as anoticable.

Your appointment will be governed by the terms and conditions of employment as presented in Employment Agreement. You will also be governed by the other rules, regulations and practices in vioque and those that may change from time to time. Your compensation is highly confidential and if the need arises, you may discuss it only with your Manager.

Please note:

 This appointment is subject to satisfactory background verification including professional reference checks and you securing a minimum of 60% aggregate (all subjects taken into consideration) with no standing arrears in your Graduation/Post-Graduation.

This offer from Cognizant is valid for 3 months and hence you are expected to accept or decline the offer through the company's ceitine portal within this time-period. In case we do not receive any response from you within this time-period, this offer shall stand withdrawm and will be considered as void. Any extension to the offer validity will be at the sole discretion of Cognizant.

Prior to commencing employment with Cognizant you must provide Cognizant with evidence of you right to work in India and other such documents as Cognizant may request.

Prior to joining Cognizant, you must successfully complete the prescribed Internship or Continuous Ski Development (CSD) program as detailed below:

At Cognizant, we invest in skill and capability development of our campus selects even before they join us. This is through Cognizant Internship and Continuous Skill Development (CSD) program. These programs focuses primarily on scirchical skills development. You could enroll in either of these as per your college processes while in the final senseties and continue with skill building unit you join Cognizant. This forms a critical part of your employment with Cognizant. Your onboarding with Cognizant would be prioritized.

Regd Office: 115/535, Old Mahabalipuram Road, Okkiam Thoraipakkam, Chennai - 600 097





Name : Shreyas D K

Be: Important information post your clearance of the interview process during the Campus Visit

Dear Shreyas D K,

This confirms you have cleared the initial interview process. Your journey for getting an Offer of Employment from Accenture has just begun. Please go through this communication to acquaint yourself of the various actions that your candidature will go through before a release of Offer of Employment by Accenture.

 Document verification and checks - Post accepting this Letter of Intent, you will have to submit certain premapalise! of occurrents. The Offer release will be contingent upon successful verification of your docurrents that this bushmistor by you choose the Critic Letter.

At all stages of the hiring process, you are expected to declare all facts honestly and act with utmost integrity while applying for any opportunity, in case of any minorpresentation of information/facts in your candidate registered process or at any stage of the hiring process, this Letter of intent or any subsequent offer issued to you shall stand revoked.

- Information on Accentur's Pre-joiner-Learning Module As part of providing our new joiners as urique learning experience, Accenture proposes a learning module - Technology Fundamentals Online. Learning prosper learninger program, Yes would like to share the details of this program in advance for your esser of information and familiarity with its conditions.
- The training module of this program is typically made available to potential new joiners at least 45 days before orbizarding to give them a reasonable time to learn at their pace and comfort. Details of which are as under;
- Under the program, the learning modules hosted on a technology platform will prepare the potential new joiner to be code ready.
- Post orboarding/joining Accenture, and after the Induction the potential new joiner will need to go through the Technology fundamental assessment (based on the pre on-boarding online learning program).
- . On successful completion of the program and clearance of the Technology fundamenta

2021



∭T≣SSOLVE

16th August 2021

Chethan Kumar L

Dear Chethan Kumar L,

With reference to your application and the subsequent interview you had with us, we are pleased to appoint you as "Test Engineer 1" as per the terms and conditions given below:

- You are required to undergo technical training for the period of one month, starting from 20th
 August 2021, during which period you will be paid a stipend of Rs.10000 (Rupees Ten
 Thousand Only). The salary and other emoluments and benefits, as per Annexure, will be
 applicable upon successful completion of Technical Training.
- The details pertaining to your appointment letter and salary are strictly confidential between you and the company and you should not discuss these details with anyone within or outside the company, except your Senior Manager or the HR in-charge.
- 3. You shall be on probation for a period of six months, with effect from the date of completion of Technical Training. Should your work be found satisfactory at the end of the period of probation, your appointment will be confirmed in writing. Unless so confirmed in writing, you shall continue to be on probation. The probation period is extendable at the sole discretion of the management.
- From the probation period start date, you will abide by the Provident Fund, Medical and LTA and Leave Rules, as applicable to you.
- 5. During the probationary period and after confirmation, your service will be terminable at the discretion of the company on giving ninety days of notice or on payment of ninety days pay in lieu of such notice. If you wish to resign from the services of the company during probation period and after confirmation, you will do so by giving ninety days prior notice.
- 6. During the period of your employment with the company you shall not secure or try to secure any other employment, whether full time or part time, or engage in any commercial business or pursuit on your own account or as an agent for others. During your employment with the company, you shall not undertake any course or study without getting permission from the management.
- 7. During the period of your employment with the company you may be required to work on customer projects. If you were to resign from the services of the company, you shall not work for the same customer or customer's customer (for the projects handled within last one year) either directly as an employee/contractor or through another organization, for a period of six months from your separation from the company.

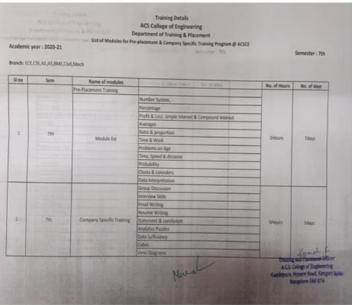
TESSOLVE SERICONDUCTOR PVI.LId
Plot Not 31 (P2), (lisctronic City, Phase II, Bangalore 550 100, India T; +91 80 4181 2526 F; +91 80 4120 2626
Winnwalesshels.com City, Phase II, 84 (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (199

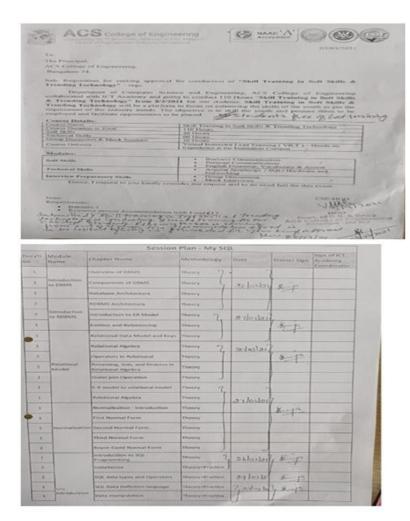
Course Name	Skill Training in Soft Skills & Trending Technology
Course Duration in Total:	110 Hours
Soft Skills:	40 Hours
Technical Skills:	60 Hours
Group Discussion & Mock Sessions:	10 Hours
Course Delivery:	Virtual Instructor Lead Training (VILT) – Hands on Experience at the Institution Campus
Modules:	
Soft Skills	Business CommunicationPersonal CommunicationEnglish Grammar, Vocabulary & Accent
Technical Skills	• SQL
Interview Preparatory Skills	Group Discussions Mock Interviews











Training Activities

The training and placement cell of the institute organize training activities for the students on the soft skills, aptitude, technical and Placement. The structure of training and placement and its content as follows.

SI. No	Year	Training Program	Contents	
1	1 st Year (I&II Semester)	Soft Skills Verbal	Resume Building Extempore Speaking Power Presentations Picture Perfect Group Discussion Personal Grooming Personal Interview Self Inventory Mgmt.	Parts of Speech, Tenses Subject Agreement Error Spotting Reading Comprehension Essay/ Paragraph writing E-mail Writing & Etiquettes Logical Reasoning and Verbal Ability Vocabulary Analogies
2	2 nd year (III & IV Semester)	Soft Skills Verbal Basics of Aptitude/ Case Studies	Basics of Aptitude / Case S Number Theory Percentag Rations, Proportions & Par Mixtures Time & Work Time, Speed & Distance S and set theory Permutatio Combination Probability Geometry Logical Reasoning	ge, Profit & Loss tnership Allegation & yllogism

		Basics of Aptitude / Case Studies Number
		Theory
		Percentage, Profit & Loss
		Rations, Proportions & Partnership Allegation & Mixtures
3 rd Year (V & VI		Time & Work
Semester)		Time, Speed & Distance Syllogism
		and set theory Permutation &
		Combination Probability
		Geometry
		Logical Reasoning
4 th Year (VII & VIII Semester)	Quantech Training	C & C++
		Data Structures Networking
		Java Microcontroller
		Microprocessor,
		Solid Edge, Catia, Auto CAD STAAD, Quality
		Control
•	Semester) 4 th Year (VII & VIII	Apulude Soft Skills Apulude Soft Skills 4 th Year (VII & VIII) Quantech Training

The summary of various training activities conducted by training and placement department is given in the table

SI. No	Academic Year	Name of the Program	No. Of Students Trained	Name of The Training Company	Program Details
1	2021-22	Pre Placement Training	47	Quan Tech Origin	Quantitative and Logical Reasoning
2	2020-21	Pre Placement Training	43	Quan Tech Origin	Quantitative and Logical Reasoning
3	2019-20	Pre Placement Training	41	Quan Tech Origin	Quantitative and Logical Reasoning

Placement activities

The training and Placement cell plans campus recruitment drives for all the programs. The placement cell conducts student registration process through which entire students' data will be collected. The department placement coordinator communicates the campus visit schedule to the students and placement drive will be conducted. The list of companies visiting the campus annually is shown in the following table

SI. No.	Name of the company	
1	Elintlabz	
2	SLK Software	
3	Infosys	
4	Qspiders	
5	NTT Data	
6	Palle Technologies	
7	Nestaway	
8	TCS	
9	Cognizant	
10	Wipro	
11	IBM	
12	Sonata software	
13	Huawei Technologies	
14	Bujus	
15	Main Tec(HCL)	

16	FACE
17	Wipro
18	Accenture
19	Capgemini
20	HCL Technologies
21	Statogent
22	VRIZE
23	Cinif Technologies
24	BrightChamp
25	Tech Mahindra
26	Sasken Technologies
27	Freenkart
28	Amazon
29	Mindtree
30	6D Technologies
31	Accord Global Technologies
32	NTT Data
33	Expleo Group
34	Hexaware
35	Agile Point
36	Vtiger
37	Unacademy
38	HUDL
39	Juspay
40	Aptean
41	Mphasis
42	ABC
43	24/7
44	VEE TECHNOLOGIES
45	KNOWX
-	

9.6 Entrepreneurship Cell (5) Total Marks 5.00

Institute Marks: 5.00

Entrepreneurship Cell (5)

About IIC Institute Institution's Innovation Council (IIC) at ACS College of Engineering established in the academic year 2019-20 under the guidance of AICTE and Ministry of Education to systematically foster the culture of Innovation. The primary objective of Innovation.

Council is to encourage, inspire and take care of young students by supporting them to work with new ideas and transform them into prototypes while they are informative years. The motto of ACS IIC is to create a vibrant local innovation ecosystem and prepare institute for Atal Ranking of Institutions on Innovation Achievements Framework. Establish function ecosystem for scouting ideas and pre-incubation of ideas. Develop better cognitive ability for technology students. Vision To provide the needs of students as well as faculty entrepreneurs with innovative ideas of social significance and there by disseminating a culture of entrepreneurship in campus which will boost our education system and there by growing the national economic and social development. Mission To develop a system with required infrastructure that can enable students, faculty to innovate, and prototype their ideas with industrial standards, support from Government, industry and reputed academic institutions around the world, and help them to realize their potentials Objectives of IIC.



- Students/Faculty associated with ICs will have exclusive opportunity to participate in various Innovation related initiatives and competitions organized from institution level to international level.
- Win exciting prizes/Certificates for Innovations.
- Meet/Interact renowned Business Leaders and lead academicians.
- Opportunity to build and prototype new ideas
- Mentoring by industry experts
- · Experiment with new technologies
- Visit new places and see new culture



Brief Mention Of Key Functionaries At The IIC Institute

St. No.	Name of the Member	Key Role/Position assigned in HC Head of the Institution		
1	Dr.M.S.Murali			
2 Dr.G.Ramanan		President		
3	Dr.P.Theorthamalai	Vice-President		
4	Mr.A.Krishna Kumar	Convener		
.5	Dr.G.Vinoth	External Member		
6	Dr.Marceswari V	ARIIA Coordinator		
7	Dr.S.Kavitha	IPR activity coordinator		
8	Dr.T.Senthil Kumaran	NIRF Coordinator		
9	Dr.R.Mukesh	Startup policy coordinator		
10	Dr.S.Anitha	Internship activity coordinator		
11	Mr.Inamul Hasan	Innovation activity coordinator		
12	Mrs.Sunita Chalgeri	Social media coordinator		
13	Mr.B.A.Sunil Raj	Faculty Member		
14 Mrs. Vijaya Dalwai 15 Mr.B. V. Vishal 16 Mrs. G. Kavya		Faculty Member		
		Faculty Member		
		Faculty Member		
17	Mr.Siva J	Faculty Member		
18	Mr.Ganesh	Faculty Member		
19	Mr.Hemanth	Faculty Member		
20	Mr.Hari	Faculty Member		
21	Mr.Syed Shabbaz	Student Member		
22	Mr.Amogh Raj	Student Member		
2.3	Mr.Vinay Kumar Pattar	Student Member		
24	Mr.Sharon V	Student Member		
2.5	Ms.Nivethidha R	Student Member		
26	Mr.Chandan	Student Member		
27	Mr. Nondan	Student Member		
28	Mr.Mohd. Shoaib	Student Member		
29	Mr.Sumit V Sawkar	Student Member		
30	Ms.Veethasmi	Student Member		

Highlight Achievements

27	Number of I&E and IPR activities Conducted
18	No. of students & faculty ideas generated
14	No. of students/faculty Innovation/prototypes developed
5	No. of Student/faculty Start- ups/Ventures established
19.89L	Amount spent on promotion and awareness on Innovation Entrepreneurship in the campus
1.15L	Amount grant or fund supported to student & Faculty lead Innovations, start-ups and IPR

Highlight Selected Start-Ups Established By Students/Faculties With Mention Of Founder/Co-Founder Name

No.	Name of the Students Title of Innovation Title of Award		Awarded by	
1	Syed shabbaz and Amulya gowda	Electro pot device	Won the best Prototype award with cash prize of Rs.40,000/-	NEC business Incubator
Sudhanva R Gowda and Harish R Gowda		Eco friendly fiber reinforced geoploymer concrete	won the Best Innovative award with Rs.20000/- case prize NEC busines Incubat	
3	Raghavendra L	Crop Analysis Using UAV	Best Innovation award	VTU cell
Tejas Chandra Tejaswini B M Narendra N		Solar Integrated Bio Composite Helmet	Co-Incubatee Award & Rs. 1500/ Cash Prize	NEC business Incubator
4	Bharath B Vishnu	Green tech power generator	Co-incubatee Award & Rs. 1500/ Cash Prize	NEC business Incubator

G. Highlight selected best Innovations & images with mention of







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

Total Marks 10.00

Institute Marks: 10.00

The Physical Education & Sports Department is quite active on campus. The school significantly supports students general growth and supports their participation in sports. For the students physical and mental health and fitness, sports are actually a way of life. The

school holds that a well-designed, comprehensive curriculum is crucial for the development of the body and mind.

Sports & Recreation

We encourage students to involve in extracurricular activities for their holistic personal developments. ACS has recreational excellent facilities for sports including gymnasium, swimming pool, tennis courts, basketball court, volleyball court, athletics tracks and a spacious ground for sports such as football, cricket and hockey.

There is an annual state-level swimming gala which is an extremely popular event, organized by the swimming club. Finally, there is Crosse, or the cross-campus race, an integral part of ACSCE athletic tradition. Our Science Club tries to infuse the fun of science into students and encourage them to focus on comprehending science than just learning it for exams.

There is an Aero modeling club, a HAM club, an electronics club and EPIC, HAM radio operators, designers and builders of aero planes, race cars and satellites. Most students are active in the Science Club events and publish an English magazine to keep all the students up to date on campus happenings. ACS also organizes competitions in music, drama, literature, debating, fine arts and Indian folk arts like Rangoli. Performing Arts Festival (PAF), a cultural extravaganza, is one of ACS College of engineering's finest attempts to bring the best of students' talents. From the joining, all students and staff in ACS are entitled to free medical facilities and insurance coverage.

SPORTS:

- The college has a basketball court which conforms to the national standards in the open field.
- The college has volley ball and throw ball courts in the open field.
- Cricket is practiced in the college field every day and more rigorously on holidays and
- Sundays. Cricket batting pitch with net for practice is created in the field.
- · Football is also practiced by the students in the evening in the ground.



VOLLY BALL COURT



BASKET BALL



CRICKET STADIUM



FOOTBALL COURT

Annual Sports Meet - 2019

The ACS College of Engineering organize sports meet on 26-04-2019 & 27-04-2019 Organized by : ACSCE

Date & Time : 26-04-2019 & 27-04-2019
Venue : ACSCE Campus & Ground

> The College playground of ACS College of Engineering was filled with great zeal, excitement and frolicsome atmosphere on 26-04-2019 & 27-04-2019 as the college celebrated its Annual Sports Extravaganza. Almost 1000 students from the college participated in the event.

The program began with our Management's support. The principal Dr.M.S.Murali welcomed the esteemed gathering and emphasized on the importance of sports in life. In his address, he also applauded the coordinators Dr.C.S.Pillai and Dr.R.Siva subramaniyam, for their outstanding contribution for the event.

The students displayed a wide array of colourful and reverberant events such as Volley Ball, Throw Ball, Basket Ball and Track events. The principal applauded the effort of the students and the teachers for making the event a huge success. The Physical Education Director Mr.Santhosha M S thanks all the volunteers, Teaching and Non Teaching staff for their support for making the event a huge success.

After the students' events the parents and staff members also participated enthusiastically in the events scheduled for them. The Principal and Vice Principal distributed the certificates and prizes for all categories. The day ended with a cheerful note, heralding the year 2019, also filled with promises for all the young























AAROHANA 2021

ACS College of Engineering hosted Virtual Cultural Fest AAROHANA 2021 on 16th and 17th of July 2021.

Fest was streamed live on YouTube with the below link: https://www.youtube.com/watch?v=4LK4o0ANJ68),youtube.com/watch?v=4LK4o0ANJ68),youtube.com/watch?v=4LK4o0ANJ v=4LK4o0ANJ68 (http://www.youtube.com/watch?v=4LK4o0ANJ68) Following 25 Interesting events were planned and executed

- 1. Drawing and Sketching
- 2. Painting
- 3. Creative writing
- 4. Essay(English)
- 5. Essay(Kannada)
- 6. Photography
- 7. Anthakshari and Cinema Quiz
- 8. Face painting
- 9. Meme making
- 10. Hair Styling
- 11. COD-Call of Duty(Online Game)
- 12. NFS-Need for speed(Online Game)
- 13. Cosplay
- 15. Calligraphy
- 14. Mehandi
- 16. Nail art
- 17. Collage
- 18. Instagram Reels
- 19. Singing
- 20. Dancing
- 21. Debate(Kannada)
- 22. Debate(English)
- 23. Mimicry
- 24. Dumb charades
- 25. Vegetable carving

The grand Virtual show commenced by the arrival of Dignitaries. It was accompanied by a melodious Saraswati Vandana from Chaithanaya shree, CSE, 8th sem, There was a colorful welcome followed by lighting of the lamp. hailing the goddess of knowledge and wisdom. It was followed by a welcome speech by Principal Dr M S Murali. Then there was bouquet presentation to the invited guests and the grand event began. Events started with the truly mesmerizing singing show followed by, dancing, Instagram reels, Drawing and Sketching Painting, Creative writing, Essay(English), Essay(Kannada), Photography, Anthakshari and Cinema Quiz, Face painting, Meme making, Hair Styling, COD-Call of Duty(Online Game), NFS-Need for speed(Online Game), Cosplay, Mehandi, Calligraphy, Nail art, Collage, Debate(Kannada), Debate (English), Mimicry, Dumb charades, Vegetable carving.Cultural heads Hemanth Kumar

G , Asst. Prof., Dept. of BME and Mrs Deepa , Asst. Prof., Dept. of Mathematics allotted 1 faculty and 6 students from every department to coordinate the events. All the faculty coordinators and student coordinators successfully executed all the events with ease.

SL. NO.	Department	Events	Faculty Coordinator	Student 0	Coordinator
				2 nd year	1.Gagana
		Drawing and Sketching Painting	Mr Radha krishnan	2 nd year	2.Sanjith
1.	Aeronautical			3 rd Year	1.Abhishek
١.	Engineering	3. Creative writing		J Teal	2.Yashaswini
				4 th year	1.Vishnu Prasad
				4 year	2.Sannidhi
			Mr Siva	2 nd year	1. Veethasmi
		Photography Anthakshari and Cinema Quiz Face painting		2 nd year	2. Bryan John
2.	Aerospace			3 rd year	1. kashyapa
	Engineering				2. Akasha
				4 th Year	1. Jiji C Joy
	Biomedical Engineering	COD-Call of Duty(Online Game) NFS-Need for speed(Online Game) Cosplay	Mrs Surekha	2 nd year	1. Rohith
					2. Lavanya
,				3 rd year	1. Pratheeksha
3.					2. Deepthi
				4 th Year	1. Rajeshwari
					2. Kosal
4.		Instagram Reels Singing Dancing	Mrs. Pallavi	2 nd year	1.Nanditha
				2 year	2.Immanuel
	Civil Engineering			3 rd year	1.Bhuvanashree
				J your	2.Sharathkumar
				4 th Year	1.Yeshwanth

					2.Varshitha M
		Debate(Kannada) Debate(English)		2 nd year	1.Harsh M
					2.Astha
5	Computer science		Ganga B.M	3 rd year	1.Ritu Shyam
	Computer solenice	3. Mimicry	9591416150	o year	2.Amshavi
				4 th Year	1.Chaitanayshree
					2.Swetha M
		1. Essay(English) on 2. Essay(Kannada) 3. Meme making		2 nd year	1.Pavan Raj
					2.Nikitha
6	Electronics and Communication		Ashwini A M	3 rd year 4 th Year	1.Niteesh
	Engineering		, 6		2.Nidhishree
					1.Akshay Aaradya
					2.Vidya
		1. Mehandi 2. Calligraphy 3. Hair Styling		2 nd year	1. Tejas
7 1					2. Rebekah
	Mechanical Engineering				1. PoOja
				you	2. Vishal
				4 th Year	1. Deepak Gowda

					1. Hemanthgreddy
8	Physics	Nail art	Mrs. Anandhi	1 st Year	2. nikithaM
					3. Poorvi
	Chemistry [Dumb charades	Dr. Pradeep S M	1 st Year	1.Archa Bajpai
9					2.AbhisheK Patil
					3. Prajwal K
10	Mathematics	Vegetable carving	Mrs. Divya S	1 st Year	1.SyeedMasood Ahmed
					2.linda sunil









































10 GOVERNANCE, INSTITUTIONAL SUPPORT AND FINANCIAL RESOURCES (120)

Total Marks 120.00

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:

Engineering the future of the nation by transforming the students to be technically skilled managers, innovative leaders and environmentally receptive citizens.

Mission:

To implement holistic approach in curriculum and pedagogy through Industry Integrated Interactions to meet the needs of Global Engineering Environment. To develop students with knowledge, attitude and skill of employability, entrepreneurship (Be Job creators than job seekers), research potential and professionally ethical citizens.

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

Institute Marks: 10.00

The Institute is run by Moogamibigai Charitable and Educational Trust, was founded in 1992 with the main objective of Promoting Higher Education in Karnataka. Various professional institutions like Medical, Dental, Nursing institutions and functioning under the aegis of the Trust generally termed as RajaRajeswari Group of Institutions. RajaRajeswari Group of Institutions was established by our founder Chairman Dr.A.C.Shanmugam, B.A.LLB, FIMSA, FRCPS (Glasgow, UK), his pioneering vision and mission has contributed for the establishment of valued educational institutions. ACS College of Engineering, an institution of academic excellence was established in the year 2009 with a cherished desire to serve the cause of humanity through education. This college is affiliated to Visvesvaraya Technological University, Belagavi and approved by the AICTE and the Govt. of Karnataka. Accredited by NAAC – "A", NBA of the branches of Aeronautical and Bio-Medical engineering, International Accreditation by HLACT, Texas, UK. It offers Under Graduate programs in eight engineering disciplines, besides masters programs. Departments such as Aeronautical Engineering, civil Engineering, Bio-Medical Engineering, Computer Science Engineering, Electronics and Communication Engineering, Mechanical Engineering, Science Humanities, offer research programs leading to Ph.D program of VTII

ACSCE equips its students not only with the technical knowledge to enable them to meet the challenges of global standards but also integrates value education, environmental awareness and communication skills into its curriculum to mould the students as responsible citizens.

The college is located in a beautiful lush green landscape, free from polluted environment and excellent atmosphere and ambience ideally suited for growth of the soul & mind. It is located behind RRMCH on the Bengaluru-Mysore Highway 15 Km from the Bengaluru City Railway Station and 2km from kengeri Railway Station.

Governing Council Members

S. No	Name	Qualification	Designation
1	Dr. A.C. Shanmugam Founder Chairman, Managing Trustee RRGI Bangalore.	B.A, L.L.B	Chairman
2	Sri. A.C.S. Arun Kumar President, Raja Rajeswari Group of Institutions, Bangalore	B. Tech (Hons), MBA	Member
3	Prof. R.M. Vasagam Former Vice-Chancellor, Anna University, Former Scientist ISRO, Bangalore	M.E	Member
4	Prof. Venkatachalappa. M Former Prof & Head, Department of Mathematics, Central College, Bangalore	Ph.D.	Member
5	Prof. Sundara Moorthy T.K Former Scientist ISRO & Mission Director Indian Communication Satellite System, Bangalore.	ME	Member
6	Mr. Vijayakumar Visvesvaraya Technological University, Nominee	ME	Visvesvaraya Technological University Nominee
7	Director Cum regional officer, AICTE South Regional office Bangalore	-	AICTE Nominee
8	Director of Technical Education, Government of Karnataka, Bangalore	-	Govt. Nominee
9	Dr. T. Senthil Kumaran Professor & Head, Department of Computer Science and Engineering	Ph.D.	Member
10	Dr. M.S. Shivakumar Professor & Head, Department of Chemistry	Ph.D.	Member
11	Dr. M.S. Murali Principal	Ph.D.	Ex-Officio Member Secretary

GOVERNING COUNCIL FUNCTIONS

- 1. To monitor the academic and other related activities of the college
- 2. To consider and execute the recommendations of the Staff Selection Committee

3. To consider the important communications, policy decisions received from the University, Government, AICTE/ PCI, etc. To monitor the students and faculty development programmes

- 4. To implement the recommendations of the Governing council
- 5. To pass the annual budget of the college.
- 6. To approve the income and expenditure of the college annually. General supervision and control of the affairs of the college
- 7. To maintain its own record of its proceedings
- 8. The Governing Council shall hold, control and administer the property and funds of the College as well as other funds placed at the disposal of the College for any specific object.
- 9. The Governing Council can enter into, vary, carry out, confirm and cancel contracts on behalf of the College. To consider the Annual Report, the Annual Accounts and the Financial Estimates. To fix admission, tuition and other fees to be charged from students reading and/or residing in the College (subject to any limitations laid down by the University).
- 10. To appoint Principals and other members of teaching and non-teaching staff excluding Class-IV employees of the College in accordance with the procedure laid down.

 To grant on the recommendation of the Principal, Study Leave and Leave without pay to the teaching staff of the College subject to the Rules and Regulations of the Institution
- 11. To institute, suspend or abolish such teaching and non-teaching posts, as may be considered necessary.
- 12. To open an account or accounts in the name of the College with such scheduled bank or banks as the Governing Body may think fit and to keep the funds of the College deposited with such banks.
- 13. To make rules and to alter, amend or repeal the same, provided, all such alterations and amendments and repeals receive the approval
- 14. To delegate, at its discretion, any of its power as may be necessary from time to time to the Principal.
- 15. To exercise such other powers and to do such other acts or things as may be necessary or expedient for the proper performance of its duties.

Governing Council Meeting Schedule

Governing Council Meeting

SI.No	Minutes of meeting scheduled	Members attended		
1		Dr. A C Shanumugam		
2		Sri A C S Arun Kumar		
3		Prof. R M Vasagam		
4		Sri. C N Seetharam		
5		Prof. Venkatachalappa M		
6	07-01-2019	Mr. Sundramoorthy		
7	07-01-2013	Dr. Manjunatha B		
8	1	Dr. Ramesh Unni Krishnan		
9		Prof. H U Talwar		
10		Prof. R R Elangovan		
11		Dr. Punal M Arabi		
12		Dr. M S Murali		

SI.No	Minutes of meeting scheduled	Members attended
1		Dr. A C Shanumugam
2		Sri A C S Arun Kumar
3		Prof. R M Vasagam
4		Sri. C N Seetharam
5		Prof. Venkatachalappa M
6	22-01-2020	Mr. Sundramoorthy
7		Dr. Manjunatha B
8		Dr. R Shaktivel
9		Prof. H U Talwar
10		Dr. T Senthil Kumaran
11		Dr. Punal M Arabi
12		Dr. M S Murali

SI.No	Minutes of meeting scheduled	Members attended	

1	13-11-2020	Dr. A C Shanumugam
2	30-01-2021	Sri A C S Arun Kumar
3	18-07-2021	Prof. R M Vasagam
4	19-02-2022	Sri. C N Seetharam
5	19-02-2022	Prof. Venkatachalappa M
6		Mr. Sundramoorthy
7		Shri. Vijaya Kumar K
8		Dr. R Shaktivel
9		Prof. H U Talwar
10		Dr. T Senthil Kumaran
11		Dr. Punal M Arabi
12		Dr. M S Murali

SI. No	Governing Council Meeting Schedu	ıled Members Attended
1		Dr. A.C. Shanmugam
2		Sri. A.C.S. Arun Kumar
3		Prof. R.M. Vasagam
4		Sri. C.N. Seetharam
5		Prof. Venkatachalappa M
6	01-07-2022	Mr. Sundramoorthy
7	20-02-2023	Shri. Vijaya Kumar K
8		Dr. R. Shaktivel
9		Prof. H.U. Talwar
10		Dr. T. Senthil Kumaran
11		Dr. M.S. Shivakumar
12		Dr. M.S. Murali

GOVERNING COUNCIL MEETING Circular



Ref: ACSCE-Bir/ACA-GCM-26/2022-23

Date: 03.02.2023

All the Members of the Governing Council ACSCE, Bengaluru

Respected Sir.

Sub: 26th Governing Council Meeting to be held on 20.02.2023 - reg.

I request you kindly make it convenient to attend 26th Governing Council Meeting on Monday the 20th February 2023 at Board Room of ACS College of Engineering, Bengaluru. The Agenda subjects for the meeting are as under:

- To read & record the minutes of 25^{th} Governing Council Meeting held on 02.07.2022. Ratification of Appointments made after 01.07.2022 and fresh appointments for the academic year 2023-24.
- To identify the scope for increasing intake and starting up of New Courses for the academic rear 2023-24.

- year 2023-24.

 Budget approval for the academic year 2023-24.

 Promotion and Revision of Salary for the academic year 2023-24.

 Readiness for NBA visits for the Department of Computer Science & Engineering and Submission of Application for getting Accreditation for Aerospace Engineering and Electronics & Communication Engineering.

 Approval for Vision, Mission, PO and PSO for Institute and Engineering Departments.

 Preparation for International Conference / Publication of Research Papers in Journals and Publishing Conference Proceedings.
- Publishing Conference Proceedings.

 Celebration of Arohana and Sports Day 2023.

 Any other subjects with the permission of the chair.

Thanking you,

Mueal Dr. M S Murali Principal & Member Convener ACSCE, Bengaluru

Yours faithfully,

Minutes of Meeting



ACS College of Engineering

ed by AICTE, New Delhi, Govt. of Karnataka & Affiliated to Visvesvaraya Techr

Sponsored by : MOOGAMBIGAI CHARITABLE AND EDUCATIONAL TRUST









Minutes of the 26th Governing Council Meeting held on 20.02.2023 at 10.30AM in the Board Room of ACSCE.

List of members present in the meeting is enclosed

At the outset, Dr. M S Murali, Principal & Member Convener, Governing Council welcomed all the members and requested them to go through the Agenda items and solicited their valuable suggestions for the overall improvement to the Institution. The following Agenda subjects have come up for discussion and decision there on:

1. To read and record the minutes of 25th Governing Council Meeting held on 02.07.2022:

The minutes of the 25th Governing Council Meeting held on 02.07.2022 was read and recorded.

2. Ratification of appointments made after 01.07.2022 and fresh appointments for the academic vear 2023-24.

The Academic year 2023-24.

The Member convener placed before the council the list of appointments made after 01.07.2022.

After discussion the appointments made by the Management for the academic year 2022-23 After discussion the appointments made by the Management for the academic year 2022-23 was ratified. And also Member Convener requested to fulfill the vacant position in the Departments for the academic year 2023-24. Further, the convener informed to Identify and appointment of Faculty Members for the New Branches approved by AICTE & VTU.

3. To identify the scope for increasing intake and starting up of New Courses for the

To Identify the scope for the council regarding the AICTE approved new UG courses, reduction The Member Convener placed before the council regarding the AICTE approved new UG courses, reduction of intake, increase in intake and closure of UG courses for the academic year 2022-23. The Governing of intake, increase in intake and closure of UG courses which are useful for the society as well students in future for the upcoming academic year 2023-24.

Council Members suggested bringing emerging courses which are useful for the society as well students in future for the upcoming academic year 2023-24.

4. Budget approval for the academic year 2023-24.

The Member Convener placed the Budget Proposal for the Academic Year 2023-24 before the members of the Governing Council. The council after detailed discussion approved the budget for 2023-24. And also Member Convener approached to approve budget for the Labs for Newly approved courses Member Convener brought before the committee for the appreciation of list of Faculty Members The Member Convener brought before the committee for the appreciation of list of Faculty completed their Ph.D in the academic year 2022-23 and also conveyed regarding promoting of Faculty members and the revision of salary made to the staff members for the academic year 2022-23. The Member Convener presented the proposal for the promotion and revision of salary for the academic year 2023-24 and the committee members had approved the same.

6. Readiness for NBA visits for the Department of Computer Science & Engineering and Submission of Application for getting Accreditation for Aerospace Engineering and Electronics & Communication Engineering.

The Member Convener placed before the committee regarding NBA Visit for the Department of Computer Science and Engineering in the month of March 2023. The member Convener was informed to take necessary action on this by considering the importance of Accreditation. The Member Convener approached to approve for the submission of Application for NBA for the Departments of Aerospace Engineering and Electronics & Communication Engineering.

207, Kambipura, Mysore Road, Bengaluru - 560 074 Ph: 080 - 2974 8222, 2974 8333 Fax: 080 - 2974 9988 E-mail: info@acsce.edu.in, principal@acsce.edu.in



ACS College of Engineering

MOOGAMBIGAL CHARITABLE AND EDUCATIONAL TRUST









7. Approval for Vision, Mission, PO, PSO for Engineering Departments.

Approval for Vision, Mission, P.V. P.V. for Engineering Departments.

The Member Convener placed before the council members regarding Vision and Mission of the Institute as well the Engineering departments. The discussions held with the departments regarding PO, PSO's and the same was approved by the departments. The details of the same were conveyed to the council and approached the committee members to approve the same.

8. <u>Preparation for International Conference / Publication of Research Papers in</u>
<u>Journals and Publishing Conference Proceedings.</u>

Journals and Publishing Conference Proceedings.

As discussed in the previous meeting the member convener informed about the schedule of the International Conference organizing by the Institution on 27th, 28th and 29th April 2023.

9. Celebration of Arohana and Sports Day for the academic year 2023-24.

A detail discussion was held regarding the celebration of Sports Day and Cultural Day at ACSCE College Campus following the SOP norms. The committee unanimously decided to conduct the above said event and decision may be taken time to time in consultation with the Management.

10. Any other subject with the permission of the chair.

The council felt that the faculty members must have the presence of interest to publish Research.

The council felt that the faculty members must have the presence of interest to publish Research Article and apply for funding project with various funding agencies

With this the Governing Council Meeting was concluded with Vote of Thanks to the chair.

H Dr. A C SHANMUGAM CHAIRMAN Prof. R M VASAGAM Advisor & Member

whotoc Prof. VENKATACHALAPPA

AICTE Nominee

DTE Nominee Dr. T SENTHILKUMAR Sri. A C S ARUN KUMAR VICE CHAIRMAN Sri. CN SEETHARAM Advisor & Member

Sri. SUNDARAMOORTHY Advisor & Mem

Dr. VIJAYAKUMAR K VTU Nominee UL Dr. M S SHIVAKUMAR Member Dr. M S MURALI

Member Secretary & Principal

Copy to all the Members

10.1.3 Decentralization in working and grievanceredressal mechanism (10)

Institute Marks: 10.00

Decentralization: The institution is governed at different levels. The responsibility of the day to day running of the institution is decentralized into the following levels:

- 1.Governing Council
- 2.Management
- 3.Princial
- 4.Head of the Department
- 5.Faculty
- 6.Students

The Governing Council meets as and when required, but at least once in a year to review the progress made and also give a direction to the Management while approving the programs and proposals received from the stakeholders. The Management after obtaining the approvals for the various programs envisaged, implements the same keeping in view the procedures for such implementation. The Management is vested with the responsibility of taking all the financial decisions and negotiation.

The Principal ensures that the college curriculum is academically viable and consistent with college objectives as well as the affiliating University directives. The Principal conducts regular meetings with all the Heads of the departments regarding academic activities, adherence to the university/institute academic calendar, student's progress, placement and training issues, research and extension activities, industry institution interaction, consultancy assignments, alumni interaction etc. The primary role of the Head ofthe Department is to provide strong leadership. HOD will be responsible for planning academic strategy for the development of the department in line with the strategic plans of the institution. The HOD drives the department on a day to day basis and is responsible for work allotment, Time Table, complying with the academic calendar, teaching, supervising the other staff and assessment. Faculty are given representation in different committees/cells and required to direct different programs. They are encouraged to develop administration skills by being in control of different scholastic, co-curricular, and extracurricular exercises. They act as a bridge between the administration and students. Students are the main stakeholders who are encouraged to play an active role in the management through representation as class representatives and as members of various committees. Anti-Sexual Harassment Committee, Grievance Redressal Committee, Anti Ragging Committee are some of the committees that exists in the college. The names of committee members with their contact numbers are displayed on notice boards/website for the information of stake holders. If any grievance is reported, it is addressed to the convener of the committee who will take up the matter with the Principal and follow up the matter until proper action is taken. Following are the list of various committees.

SI. No.	COMMITTEES	HEADS	EMAIL	PHONE No
1	Academic Committee	Dr.H S Siddesha, HOD- ME	siddeshahs@acsce.edu.in (mailto:siddeshahs@acsce.edu.in)	7259125170
2	Disciplinary Committee	Dr. Suresh P.M, Professor-ME	sureshpm@acsce.edu.in (mailto:sureshpm@acsce.edu.in)	9886756991
3	3 Cultural Committee Dr.H S Gowardhanaswamy, HoD, Civil		gowardhanaswamy@acsce.edu.in (mailto:gowardhanaswamy@acsce.edu.in)	9663736535
4	Library Committee	Dr.Prasanna Kumar Professor - ECE	amprasannakumar@acsce.edu.in (mailto:amprasannakumar@acsce.edu.in)	8867560052
5	Hostel /Canteen Committee	Dr. R. Mukesh, HOD - AS	vsmprm@gmail.com (mailto:vsmprm@gmail.com)	7760998700
6	Anti-Ragging Committee	Dr. M. S. Murali, Principal	principal.acsce@gmail.com (mailto:principal.acsce@gmail.com),	9880855302
7	Students Welfare Committee	Prof. Danya Prakash R.Babu, Assistant Professor, Aero	danyaprakash@acsce.edu.in (mailto:pillai.cs5@gmail.com)	9886692625
8	Professional 8 /NSS/YRC Committee Dr. Shiva Kumar .M.S, HOD, Chemistry		msss.res@gmail.com (mailto:msss.res@gmail.com) shivakumarms@acsce.edu.in (mailto:shivakumarms@acsce.edu.in)	9008831720
9	Magazine Committee	Dr.Ramanan, HOD-AE	drramanang@acsce.edu.in (mailto:drramanang@acsce.edu.in) gramanan1987@gmail.com (mailto:gramanan1987@gmail.com)	9965418124
10	Grievance Redressal Committee	Dr. M.S.Murali, Principal Dr. C S Pillai	principal.acsce@gmail.com (mailto:principal.acsce@gmail.com), mamatha.monikaraj@gmail.com (mailto:mamatha.monikaraj@gmail.com)	8073078780
11	Sexual Harassment Elimination Committee	Dr. Bhuvaneshwari, HOD - BME	bhuvaneshwari@acsce.edu.in (mailto:bhuvaneshwari@acsce.edu.in)	
12	Sports Committee	Dr.C.S.Pillai, Asso. Prof –	pillai.cs5@gmail.com (mailto:pillai.cs5@gmail.com)	9964144757

13	R&D Committee	Dr. T. Senthil Kumaran, Dean	senthilkumaran@acsce.edu.in (mailto:senthilkumaran@acsce.edu.in)	9444192800
14	Placement committee	Mrs. Komala, Training and placement officer	komalathyagaraj234@gmail.com (mailto:komalathyagaraj234@gmail.com)	9342867979
15	Mentoring of student welfare	Dr.Pradeep kumar K.T, Asso ProfMaths	ktpradeepkumar@gmail.com (mailto:ktpradeepkumar@gmail.com)	9480648622
16			bhuvaneshwari@acsce.edu.in (mailto:bhuvaneshwari@acsce.edu.in)	9448394177
17	SC/ST/BCM Cell	Mr. Kumar B M, Asst Prof. - ME	kumarvanitha80@gmail.com (mailto:kumarvanitha80@gmail.com)	9611243006
18	Alumni Association	Mrs.Kavita patil, Asst Prof. - CSE	kavita.patil@gmail.com (mailto:kavita.patil@gmail.com)	9972948000

IQAC COMMITTEES - 2022-23

SI. Io.	Name of the Committee			
1.	ACADEMIC COMMITTEE			
	Head Members		Activities	
	Dr. H.S Siddesha, HOD – ME	1. Dr. Suresh P M 2. Dr. Bharathi Gururaj 3. Prof. Gayathri	Smooth running of classe result review, Academic Activity review, etc	
2.	DISCIPLINARY COMMITTEE			
	Dr.H.S. Gowardhanaswamy, HoD,Civil	1. Dr. Anitha 2. Dr. Subashchandrabose 3. Dr. Pradeep S.M 4. Dr. Ragavendhra 5. Prof. Dhanyaprakash 6. Prof. Nagesh 7. Prof. Sunitha chalageri 8. Prof. Sunitha chalageri 9. Prof. Srinidhi Acharya 10. Prof. Shiva Shankar K M 11. Prof. Gayathri. G 12. Prof. Immanuel hassan	Respond to allegations of misbehaviors or academic misconduct, educate students about impact of their behaviors, Honest conduct & rights of others investigate and respond to complaints made about ACSCE; investigate allegations and take actional misbehaviors.	
3.	CULTURAL COMMITTEE	12. 1 Tol. Illimando nassan		
	Dr.H.S. Gowardhanaswamy, HoD,Civil	1. Dr. Suresh P N 2. Dr. Anitha 3. Dr. Raghavendra. 4. Dr. Bharathi Gururaj 5. Prof. Deepa 6. Prof. Ashwini 7. Prof. Shivashankar 8. Prof. Kavitha Patil 9. Prof. Ganga 10. Prathiksha (Student Coordinator) 11. Rohith (Student Coordinator)	Conducting cultural event facilitating student participation in other institutions at State/Inter State/ University Level.	
1.	LIBRARY COMMITTEE			
	Dr. Prasanna Kumar, Professor ECE	1. Mr. Ravikumar. N 2. Prof. Sivasankar	Library functioning/automation, updating library as per AICTE norms.	

		Print					
	Dr. R. Mukesh, HoD - AS	Mr. Paramashivam (Warden) Mr. Prasanth (Instructor) Mr. Hari Krishna (Instructor) Mr. Athipathi Raj (Estate Officer)	Maintenance & attending to grievances if any and Night inspection of hostels, Maintenance.				
6.	ANTI-RAGGING COMMITTEE & SQUAD						
	Dr. M.S.Murali, Principal	1. Dr. Bhuvaneshwari 2. Dr. C.S.Pillai 3. Dr. Anitha S 4. Mr. Athipathi Raj (Estate officer) 5. Mr. Paramesha R N 6. Mr. Chandan (Student Coordinator) 7. Ms.Geetha (Student Coordinator)	Display boards of anti ragging; observation of anti ragging in the campus including hostel.				
	SQUAD						
	Dr. M. S. Murali, Principal	1. Dr. H.S Siddesha 2. Dr. Shiva Kumar 3. Dr. Bharathi Gururaj 4. Mr. Kushal K (Student Coordinator) 5. Mr. C Yuvaraj (Student Coordinator) 6. Ms. Sanjana (Student Coordinator)					
7.	STUDENTS WELFARE COMMITTEE	<u> </u> =					
	Prof. Danya Prakash R.Babu, Assistant Professor, Aero	1. Dr. Selvanandhan S 2. Dr.Bharathi Gururaj 3. Prof. Shivashankar 4. Prof. Srinidhi Acharya 5. Prof. Radhakrishnan 6. Amogh raj (Student Coordinator) 7. Sangeetha (Student Coordinator)	Listening & resolving studen grievances, addressing student facilities				
8.	PROFESSIONAL /NSS/YRS COMMI	PROFESSIONAL /NSS/YRS COMMITTEE					
	Dr. Shiva Kumar. M. S, HOD, Chemistry	Dr. Pradeepa,S.M Dr. Raghavendra Prof. Satish H Chaithanyashree- Student Coordinator Nitish - Student Coordinator	Conducting ISTE sponsored programs, To give a personality boost with the help of selfless social work with student's personality.				
9.	MAGAZINE COMMITTEE						
	Dr. Ramanan G, HOD, Dept of AE	Dr. Raghavendra.K Dr.Subash Chandra Bose Prof. Sunita Chalegeri Spoorthi - Student Coordinator Sagar -Student Coordinator	To initiate action to publish magazine from ACSCE. To initiate to bring out the News Letter regularly.				
10	GRIEVANCE REDRESSAL COMMIT	TEE	1				
	Dr. M. S. Murali, Principal Dr. C S Pillai, Professor CSE	Dr.Subash Chandra Bose Prof. Albert Allen D Mello Prof. Ashwini Prof. Prajith Nair Prof. Surekha Abishek Kumar - Student Coordinator Ashish - Student Coordinator	Listening & resolving studer grievances, addressing student facilities				
11	SEXUAL HARASSMENT ELIMINAT	ION COMMITTEE					
	Dr. Bhuvaneshwari, HOD - BME	Dr. Anitha Prof.Vijaya Dalawai Prof. Radha Krishnan.P Syamili - Student Coordinator Poojitha- Student Coordinator	Addressing the issue of Sexual Harassment of Women at Workplace (Prevention, Prohibition and Redressal)				
	SQUAD						
	Dr. M.S.Murali, Principal	1. Dr. B. H Veena 2. Prof. Nanditha Krishna 3. Prof. Siva J					
12	SPORTS COMMITTEE						

	Print				
	Mr. Praveen - PED Dr. C. S. Pillai, Professor – CSE	All HOD's and Dept. Coordinators 1. Abishek Kumar - Student Coordinator 2. Akash - Student Coordinator	Conducting sports events, facilitating student participation in other institutions at State/Inter State Level		
13	R&D COMMITTEE				
	Dr.T. Senthil Kumaran,- CSE, Dean R&D	Head of R&D Centers	Planning, developing and focuses on overall responsibility of all research and development activities.		
14	PLACEMENT COMMITTEE				
	Mrs.Komala, Training and placement officer	1. Prof. Kavya 2. Prof. Albert Allen 3. Prof. Sunil Raj B. A 4. Prof. Nagesh. H. B. 5. Dr.Paramaguru V	Establishing the contacts with reputed firms, arranging campus interview, conducting programs e.g. soft skills, encouraging students for group discussions.		
15	MENTORING OF STUDENT WELFARE				
	Dr. Pradeep kumar K.T, Assoc. Prof Maths	1. Prof. Shivashankar K M 2. Prof. Siva J 3. Prof. Deepa	Listening & mentoring the students. Supporting students mentally.		
16	WOMEN EMPOWERMENT				
	Dr. Bhuvaneshwari, HOD - BME	1. Dr. B.H.Veena 2. Dr. Anitha 3. Prof. Gayathri Joshi 4. Sinchana- Student Coordinator 5. Lakshmi- Student Coordinator	Empowering women to participate fully in economic life across all sectors is essential to build stronger economies, achieve internationally agreed goals for development and sustainability, and improve the quality of life for women.		
17	SC/ST/BCM Cell				
	Mr.Kumar B M , Asst Prof-ME	Dr.Pradeep S.M Prof. Praveen Patil Prof. Deepa	Promotes the special interests of students in the reserved category and provide special inputs in areas where the students experience difficulties.		
18	ALUMNI ASSOCIATION	I			
	Mrs. Kavitha Patil, Asst Prof-CSE	1. Dr. M.S.Shiva Kumar 2. Prof. Nagesh H B 3. Prof. Immanuel Hassan 4. HemaHariharan- Student Coordinator 5. Gagana- Student Coordinator	Formulation of Alumni Association		

10.1.4 Delegation of financial powers (10)

The institution has a structured procedure for mobilization of funds and its optimal utilization, which ensures effective and optimal utilization of finances for academic, administrative and development purpose. This ultimately helps in realizing the Institute's Vision and Mission. As per the guidelines in the service manual of Chapter 7 which clearly explain how to utilize the funds and various authorities, variance report of sanctioned budget and actual expenditure are regularly maintained. The delegation of powers for various functionaries is tabulated in 7.1 sub-heading in the service manual.

The various subcommittees and their financial powers, expenses towards hospitality for meetings and guests for various cadres, expenses towards industrial visits, honorarium towards guests and invitedlecturers are indicated in 7.2 sub-heading in the service manual. under 7.2 the following committees are framed to ensure smooth flow of the process

- 7.2.1 Department Purchase committee
- 7.2.2 Institutional Purchase committee from Rs. 10,000 up to Rs. 1.00 Lakh
- 7.2.3 Institutional Purchase committee more than Rs. 1.00 Lakh
- 7.2.4 Imprest amount towards hospitality for meetings & guests
- 7.2.5. Expenses towards industrial visit
- 7.2.6. Honorarium towards guest & invited lecturers

Every year, the budget is prepared well in advance after taking into consideration the requirement of every Department. Each Department prepares the budget based on the requirement such as equipment, computer and consumables required for next academic session. Principal put up the budget to the management for consideration and approval and Governing Body (GB) meeting and after discussion and necessary corrections/modifications; Governing Body recommends the budget for approval. The budget is reviewed by the management and approved after necessary changes. As and when required, the institution makes a provision for advance additional fund. The Principal and the Head of Departments discuss the requirement and decide the priorities while allotting financial resources for various purposes; and also ensure optimum use of available financial resources. The Governing body studies the annual expenditure, scrutinizes the budget and provides feedback for efficient use of financial resources. The institution has standardized procedure for sanctioning of funds for various activities and also for settlement of advance and passing of bills for payment. The Management has given complete support to Principal for organization of various co-curricular and extra- curricular activities like technical events, sponsoring of faculty and staff for various FDPs, skill development programs, providing financial support for attending conferences, workshops, pursuance of higher education etc. Financial support is also provided for participation of students at various nationallevel events. The management monitors all the major financial transactions. The budget is discussed in the meetings of GB of the institution The resolutions of the GB regarding approval for budget are forwarded to the trust for final approval of the budget. The purchase procedure such as calling quotation, technical bid, preparing comparative statement, negotiation meetings are followed for effective and efficient use of available financial resources. The committee ens

Financial powers delegated to Principal and HOD's:

Designation	Facility	Amount
Principal	Imprest amount	Upto 1,00,000/-
HOD's	Imprest amount	Upto 10,000/-

Service Rule Link: http://www.acsce.edu.in/acsce/wp-content/uploads/2016/08/Service-Manual.pdf

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

Institute Marks : 5 00

The institute is having a website-committee which will be scrutinizing the program/ institute specific information before uploading on to the web. Because of this mechanism, the ambiguity will be avoided. However, if somebody is in need of further clarification, the same will be addressed by the concerned department/ section. However, the documents are also available at the relevant offices for the stake holders.

YES. All the information are available on Institutes website. ACSCE maintains complete transparency in its financial, academic, administrative and auxiliary functions by clearly defining its vision, mission, objectives and procedures and disseminating them at all levels. Proper procedures are strictly followed according to Govt. norms.

Transparency in Academic Functioning

ACSCE strictly adheres to the academic calendar that details the various activities in advance. Admission notifications are made through newspapers and on its website.

Admission forms are processed online, with all the relevant details explained in the prospectus and on the website.

The entire academic plan is clearly explained to all students in a compulsory orientation programme on admission. The elaborate system of various committees and bodies coupled with a strong multiple-level feedback mechanism from all stakeholders, also ensures the dynamism required to keep pace with the changing educational environment.

The credits of each programme and outcomes are clearly specified. The internal assessment, comprising various components, ensures that students receive their evaluated answer sheets and monitor their progress, performance and fairness in the evaluation. There is provision for re-evaluation, remedial examinations and grievance redressal system. The fee is minimal, online and withdrawal and refund as per UGC norms.

Transparency in Administrative Functioning

Recruitments and Staff Promotions are also undertaken with utmost transparency. All posts are advertised online and the candidates will be screened and called for interview.

Employees can readily discuss and access their records in the various sections of the administrative office. The policies related to HR, Leave, Research and faculty empowerment are available in the service rule which is published in the Institutional website.

https://www.acsce.edu.in/mandatory-disclosure/ (http://www.acsce.edu.in/mandatory-disclosure/)

https://www.acsce.edu.in/iqac-committee-members-minutes-of-meeting/ (http://www.acsce.edu.in/iqac-committee-members-minutes-of-meeting/)

https://www.acsce.edu.in/acsce/wp-content/uploads/2021/10/NAAC/7.1.10.pdf (http://www.acsce.edu.in/acsce/wp-content/uploads/2021/10/NAAC/7.1.10.pdf)

https://www.acsce.edu.in/acsce/wp-content/uploads/2021/10/NAAC/7.1.1a%20Promotion%20of%20gender%20equity.pdf (http://www.acsce.edu.in/acsce/wp-content/uploads/2021/10/NAAC/7.1.1a%20Promotion%20equity.pdf)

https://www.acsce.edu.in/acsce/wp-content/uploads/2021/10/NAAC/7.1.1b%20Gender%20sensitization%20action%20plan.pdf (http://www.acsce.edu.in/acsce/wp-content/uploads/2021/10/NAAC/7.1.1b%20Gender%20sensitization%20action%20plan.pdf)

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

10.2.2 Utilization of allocated funds (15)

Total Marks 30.00 Institute Marks : 15.00

The budget allocated over the years for various programs by the institute are adequate and in case there is any deficiency, it is made from Institutes own resources. Apart from regular Budget, the departments are receiving various project grants to meet their expenditure. The budget allocation and utilisation for the last four years is adequate. Formal budget estimates are prepared by each department and are reviewed in HODs meeting with Principal.

Financial year	Requested budget (in Lakhs)	Approved budget (in Lakhs)	Adequate / Not adequate
2022-23	1320.50	1265.25	adequate
2021-22	1296.00	1233.55	adequate
2020-21	1142.68	1082.73	adequate
2019-20	1229.50	1142.99	adequate

$\textbf{10.2.3 Availability of the audited statements on the institute's website} \ (5)$

Institute's audited statements are available at the following link:

 $\underline{https://assessmentonline.naac.gov.in/storage/app/hei/SSR/104253/4.1.4_1637387778_6925.pdf}$

 $(https://assessmentonline.naac.gov.in/storage/app/hei/SSR/104253/4.1.4_1637387778_6925.pdf) \\$

10.2.1 Adequacy of budget allocation (10)

Institute Marks: 10.00

Institute Marks: 5.00

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.

Financial year	Approved budget (in Lakhs)	Actual expenditure (in Lakhs)	Justification
2022-23	1320.50	1265.25	
2021-22	1296.00	1233.55	Budget has been utilized within the sanctioned fund meeting the
2020-21	1142.68	1082.73	requirement by all the departments and institutional requirement
2019-20	1229.50	1142.99	

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 2022-23

Total Income 1484	Total Income 148480434			Actual expenditure(till): 123578777			Total No. Of Students 1444
Fee	Govt.	Grants	Other sources(specify)	Recurring including Non Special Projects/Anyother, salaries Recurring specify		Expenditure per student	
148480434	0	0		91581889	31996888	0	85580.87

Table 2 - CFYm1 2021-22

Total Income 148480434				Actual expenditure(till):	Total No. Of Students 1309		
Fee	Govt.	Grants	Other sources(specify)	Recurring including salaries			Expenditure per student
148480434	0	0	0	90670293	32685087	0	94236.35

Table 3 - CFYm2 2020-21

Total Income 1511	Total Income 151176802			Actual expenditure(till): 108273187			Total No. Of Students 1309
Fee	Govt.	Grants	Other sources(specify)	Recurring including salaries			Expenditure per student
151176802	0	0	0	74780312	33492875	0	82714.43

Table 4 - CFYm3 2019-20

Total Income 130	Total Income 130290618			Actual expenditure(till): 114299132			Total No. Of Students 1191
Fee	Govt.	Grants	Other sources(specify)	Recurring including Non Special Projects/Anyother, salaries Recurring specify			Expenditure per student
130290618	0	0	0	84953001	29346131	0	95969.04

Items	Budgeted in 2022-23	Actual Expenses in 2022-23 till	Budgeted in 2021-22	Actual Expenses in 2021-22 till	Budgeted in 2020-21	Actual Expenses in 2020-21 till	Budgeted in 2019-20	Actual Expenses in 2019-20 till
Infrastructure Built-Up	100000	0	100000	0	100000	0	300000	298611

Library	1515000	1254866	1500000	1242442	1900000	1653339	1800000	1474538
Laboratory equipment	100000	0	100000	0	100000	0	700000	671712
Laboratory consumables	250000	200000	200000	193175	400000	386419	150000	115485
Teaching and non-teaching staff salary	65145000	62720286	64500000	62099293	58000000	55972279	67000000	64869144
Maintenance and spares	29795000	28661603	29500000	28377825	19000000	18421614	22000000	19968372
R&D	4545000	3929544	4500000	3890638	5000000	4211981	1600000	1403009
Training and Travel	808000	694772	800000	687893	2900000	2410695	1600000	1336143
Miscellaneous Expenses	27675000	26117705	28400000	26864114	26868000	25216860	27800000	24162118
Others, specify								
Total	129933000	123578776	129600000	123355380	114268000	108273187	122950000	114299132

10.3 Program Specific Budget Allocation, Utilization (30)

10.3.2 Utilization of allocated funds (20)

Budget Utilized:

Financial year	Approved Budget (in Lakhs)		Percentage of Utilization	Justification
2022-23	2370000	1960000	82%	The budget has been utilized within the sanctioned fund meeting the requirement of ECE Department. And still, we are in
2021-22	310500	250102	80%	The budget has been utilized within the sanctioned fund meeting the requirement of ECE Department.
2020-21	297241	207318	70%	The budget has been utilized within the sanctioned fund meeting the requirement of ECE Department.
2019-20	224754	161853	72%	The budget has been utilized within the sanctioned fund meeting the requirement of ECE Department.

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 2022-23

2370000		Actual expenditure (till): 1916000	Total No. Of Students 120	
Non Recurring Recurring		Non Recurring Recurring Expenditure per student		Expenditure per student
2000000	370000	1686000	230000	15966.67

Table 2 :: CFYm1 2021-22

310500		Actual expenditure (till): 250102		Total No. Of Students 145
Non Recurring	Recurring	Non Recurring Recurring		Expenditure per student
80000	230500	55104	194998	1724.84

Table 3 :: CFYm2 2020-21

297241		Actual expenditure (till): 207318		Total No. Of Students 135
Non Recurring Recurring		Non Recurring	Recurring	Expenditure per student
100000	197241	42498	164820	1535.69

Table 4 :: CFYm3 2019-20

224754		Actual expenditure (till): 161853		Total No. Of Students 104
Non Recurring	Recurring	Non Recurring	Recurring	Expenditure per student
50000	174754	16649	145204	1556.28

Items	Budgeted in 2022-23	Actual Expenses in 2022-23 till	Budgeted in 2021-22	Actual Expenses in 2021-22 till	Budgeted in 2020-21	Actual Expenses in 2020-21 till	Budgeted in 2019-20	Actual Expenses in 2019-20 till
Laboratory equipment	1000000	861000	10000	7552	50000	12448	10000	6667
Software	1000000	825000	0	0	0	0	0	0
Laboratory consumable	50000	40000	70000	53448	70000	56486	70000	19924
Maintenance and spares	50000	30000	150000	133732	120000	102602	100000	122602
R&D	20000	20000	70000	47552	50000	30050	40000	9982
Training and Travel	50000	40000	5000	2553	2000	1050	1500	656
Miscellaneous Expenses +	200000	100000	5500	5265	5241	4682	3254	2022
Symposium + Others Total	2370000	1916000	310500	250102	297241	207318	224754	161853

10.3.1 Adequacy of budget allocation (10)

Adequacy of Budget:

Financial year	Requested Budget (in Lakhs)	Approved Budget (in Lakhs)	Adequate/ Not Adequate
2022-23	2370000	1960000	Adequate
2021-22	310500	250102	Adequate
2020-21	297241	207318	Adequate
2019-20	224754	161853	Adequate

Institute Marks: 10.00

10.4 Library and Internet (20) Tot

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

Institute

Library Detail

15,488 sq. Ft.

Carpet Area of the library

Spread with various sections like; Textbooks Lending Area, Reference Section, Digital Library, Current Periodicals & Archives Section, Photocopier, Staff Reading Section, Audio Visual Section, Round Table Discussion, Personal Reading Area, Librarian Office

Number of seats in reading space Seating Capacity of 320 students & Faculty members

Library Photos:



VTU Consortium:

Visvesvaraya Technological University sri. s. g. balekundri central Library and information center

Jnana Sangama, Belagavi-590018

VTU-CONSORTIUM

Subscription of E-Resources for the year 2022-23

SL NO	PUBLISHERS	SUBJECT CATEGORY	RESOURCE COVERAGE	NO. OF RESOUR CES	CONTACT DETAILS	SUBSCRI PTION PERIOD
1.	Elsevier www.sciencedirect.com	E-Journals: Engineering + CS + EE + ME + EC + CV and allied branches of engineering.	Artificial Intelligence-22 Computer Graphics and Computer-Aided Design-19 Computer Networks and Communications-29 Computer Vision and Pattern Recognition-10 Hardware and Architecture-20 Information Systems-28 Signal Processing-13 Aerospace Engineering-5 Biomedical Engineering-16 Civil and Structural Engineering-15 Computational Mechanics-11 Electrical and Electronic Engineering-33 Mechanical Engineering-33 Ocean Engineering-4 Safety, Risk, Reliability and Quality-13 (Back Issues from 2010)	298 Journalis	Mr.Nikhili Bhalerao 74286 99374 n.bhalerao@els evier.com	23-05-2022 10 22-05-2023
2.	IEEE Proceedings Order Plan (POP) https://ieeexplore.ieee.org	IEEE Proceedings: The core collection of IEEE conference proceedings from approximately 100 of IEEE's most important conferences. Full-text access with a backfile to 2010.	Aerospace and Defense Biometrics Computer Hardware and Software Cyber Security Electronics Internet of Things (IoT) Medical Devices Nanotechnology Cybics Power Engineering Robotics Semiconductors Semi Grid Telecommunications Wireless Technology (Back Issues from 2010)	530,000 papers - from 100 core IEEE conference titles in POP	Mr. Manjunath SR 98702 00104 mnudrappa@eb sco.com	23-09-2022 to 22-09-2023

3.	Springer Nature https://link.springer.com/ SPRINGER NATURE	E-Journals: Electrical & Electronics Mechanical Computer Science Engineering (Allied Subject) Chemistry and Material Science Mathematics Physics	Electrical & Electronics - 58 Mechanical - 44 CIVII - 13 Computer Science - 93 Engineering (Allied Subject) - 39 Chemistry and Material Science - 162 Mathematics - 167 Physics - 104 (Back Issues from 1997)	690 Journals	Mr. Varghese P. Thomas 96899 64063 varghese lhoma s@springernatu re.com Mr. Rajaneesh 99005 55516 rajaneesh@spri nger.com	23-05-2022 to 22-05-2023
	Taylor & Francis https://www.tandfonline.com/ Taylor & Francis taylor & Francis taylor & Francis	E-Journals: Engineering + CSE + ME + CV + Architecture and Allied Science	Alled Science-124 Mechanical-35 Textile -8 Engineering & Technology-76 Electrical-17 Computer Science-27 Civil & Structural-31 BioTechnology-17 Architecture-19 (Back Issues from 2010)	585 Journals	Mr. Vinay Srinivas 98860 44775 Vinay.srinivas@ tandfindia.com Mr. Onkar Verma onkar.verma@t andfindia.com Tet +91-11- 43155118	23-05-2022 to 22-05-2023
5.	Emerald https://www.emeraldinsight.com/ emerald PUBLISHING	E-Journals: Management	Accounting, Finance & Economics-9 Business, Management & Strategy-18 Education-10 Health & Social Care-5 HR, Learning & Organization Studies-17 Information & Knowledge Management-10 Library Studies-17 Marketing-12 Operations, Logistics & Quality-10 Properly Management & Bulk Environment-5 Public Policy & Environmental Management-6 Tourism & Hospitality Management-1 (Back Issues from 2010)	120 Journals	Mr. S Vinay Kumar 99162 52539 svkumar@emer aldgroup.com	01-10-2022 to 30-09-2023
6.	ProQuest https://www.proquest.com/165290 ProQuest	E-Journals: Architecture and all Engineering and its allied branches.	Technology Collection includes the Advanced Technology & Aerospace and Materials Science & Engineering Databases (Back issues from 1962)	Full text: 4900 Journals Indexed: 7800 Abstract	98863 39117 Lakshmikanth.	

7.	Emerald https://www.emerald.com/insight/ content/case-studies emerald insight	Emerald Case Studies: Emerging Markets Case Studies	E-Case Collection (1000 Indian). The CASE Journals (Electronic)	1000 E-Case	Mr. S Vinay Kumar 99162 52539 svkumar@emer aldgroup.com	01-06-2022 to 31-05-2023
8.	Mint Books https://mintbook.in	E-Books: Mintbook unified learning platform of e-Books	1. Civil engineering - 160 2. Mechanical engineering - 249 3. Electrical engineering - 182 4. Electrories and communication - 226 5. Computer science - 656 6. Information technology - 199 7. Biotechnology - 150 8. Management - 1189 9. Allied branches of engineering - 183 10. Others (competitive exams) - 81	3469 eBooks	Mr. Charan B. Naik 8886247670 charan@mintbo ok.com	01-06-2022 to 31-05-2023
9.	MAPMy Access https://rtuconsortium.mspmyacc sss.com MAPMy/Accesss	Cloud server along with Universal Federation search services Remote Access Solution	All subjects 12 K + Resources and following features: 1. OA resources: Journals + e-Books + e-Theses + Educational videods. 2. 24 K 7 seamless access. 3. Admin control for literature. 4. Usage report for individual colleges. 5. Secured renote sociess full lext content. 6. Mobile compatibility.	OA resourc es: 10,000+ eBooks & 5700+ eJournal s	Mr. Satish Pandharpurkar 8971638 634 support@vaconsorium.com Mr. Somshekhar V Thalange 8600105949 somshekhar@ mapibraryservi cos.com	23-05-2022 to 22-05-2023
10.	Turnitin' https://www.turnitin.com/	Plagiarism Originality Online Check*	End user Licenses: 1. Instructor profile 2. Student's profile	-	Anub Kumar 9811464814 akumar@turnisi n.com	03-06-202: to 02-06-202:

	Analytiks' ANQUILL ANQUILL (Mitting Grammar Learning Too	Admin control for librarians 2. 24 X 7 seamless access Usege report for individual college can take	Mir. Laxminarayan a Ullala 96205 55571 laks@netanalyti ks.com Mr. Sateesh Hegde 94480 94428 sateeshh@neta nalytiks.com	23-05-2022 to 22-05-2023
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SI. No Particulars Collection

Collection of titles/Textbooks

	Total No. of Books	21460
1.	Total No. of Textbooks	19756
1.	Reference Books	1704
	Total No. of title	3779
	Rare Book Collection	32
	Current Year Periodicals	
2.	National Journals	50
	International Journals	16
	New Papers	12

e-Resources (Online Journals) through VTU Consortium

Elsevier, IEEE, Taylor & Francis, Springer Nature, ProQuest, Mint books, Map Systems (Remote Access Service Map my Access), Net Analytics Technologies, Turnitin Software Online Tool)

https://acsce.mapmyaccess.com/ (https://acsce.mapmyaccess.com/)

https://www.turnitin.com/t_home.asp?login=1&svr=22&lang=en_us&r=68.7278218305288 (https://www.turnitin.com/t_home.asp?login=1&svr=22&lang=en_us&r=68.72

Institutional Membership
 Bound Volume of Print Journals
 Non-Book Materials

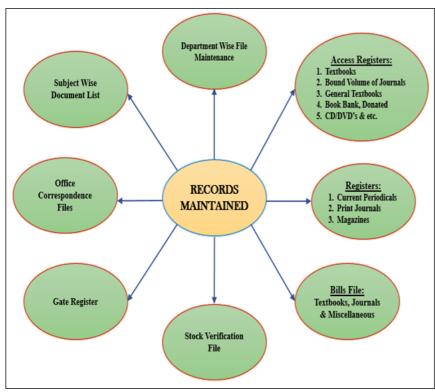
6 CD-ROM/DVDs 657

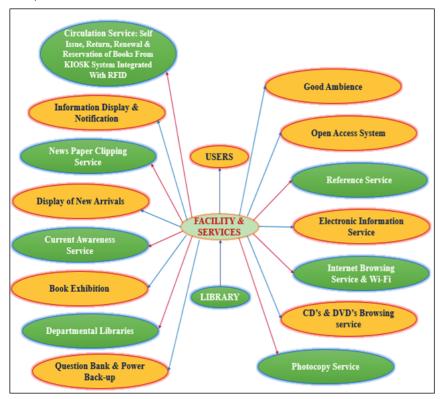
In addition, we have EDUSAT e-Learning Program & NPTEL Lecture notes https://nptel.ac.in/localchapter/statistics/709

7. Computers 27

8. Book Bank 250

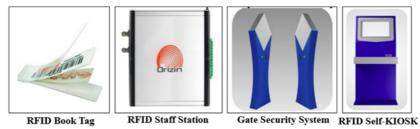
Records Maintenance in the Library:



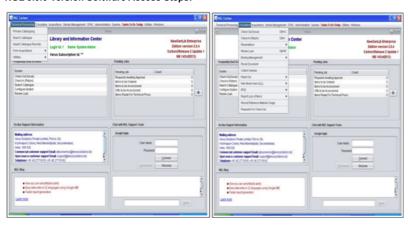


RFID Components for Library Smooth and Proper Function





NGL 3.0.0 Version Software Access Steps:



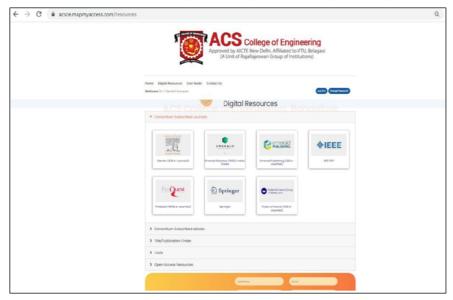
e-Resource (VTU Consortium)



E- Resources

IEEE – IEL Online	www.ieeexplore.ieee.org (http://www.ieeexplore.ieee.org)
Elsevier Science (Science Direct)	www.sciencedirect.com (http://www.sciencedirect.com)
Springer e-Journals	www.link.springer.com (http://www.link.springer.com)
Taylor & Francis Journals	www.tandfonline .com
ProQuest – Engineering/Management	www.search.proquest.com (http://www.search.proquest.com)
K-Nimbus: Digital Library Platform	https://www.knimbus.com/user/auth.do
Remote Access Solution	

Link for E-Resources https://acsce.mapmyaccess.com/ (https://acsce.mapmyaccess.com/)



Support to students for self-learning activities:

Accessibility to students Apart from Print Resources the following e-Resources are also available for the benefit of the staff and students. All these resources are very muc the course curriculum.

E- Journals Package:

- Elsevier Science Direct e-Journals
- Springer Nature e-Journals
- Taylor and Francis e-Journals
- K-nimbus (Digital Library Platform and Remote Access Solution)
- Turnitin (Similarity check tool)
- online NPTEL Videos
- Online IIT Bombay Spoken Tutorial Videos
- Online Infosys Spring Board Videos
- Digital Library with a Capacity of 25 Computers linked to E-resources
- https://www.acsce.edu.in/e-learning/

· https://acsce.mapmyaccess.com/

10.4.2 Internet (10) Institute Marks : 10.00

Name of the Internet provider	Railtel
Available band width	1 Gbps
WiFi availability	20 Access Points
Internet access in labs, classrooms, library and offices of all Departments	LAN Connectivity: LABs, Class Rooms, office of all the departments, Seminar Halls, Conference Hall, Digital Library
Security arrangements	Whole Campus is Enabled with CCTV Surveillance Radius Manager

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	To Analyze, design and develop solutions by applying foundational concepts of Electronics and Communication Engineering.
PSO2	Design and implement the products using cutting edge technologies in hardware and software, to demonstrate leadership qualities among students, to promote research and development activities for betterment of organization and society.

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. M. S. Murali Designation : Principal

Signature:

Seal of The Institution :

A.C.S. College of Engineering Kambipura, Mysore Road, Kengeri Hobii

Place : Bangalore

Date: 03-04-2023 16:05:06