

SELF ASSESSMENT REPORT (SAR)
FOR THE ACCREDITATION OF UNDERGRADUATE
ENGINEERING PROGRAM (TIER – II)
FIRST TIME ACCREDITATION

ELECTRONICS AND COMMUNICATION ENGINEERING

Submitted to



**SAMSKRUTI COLLEGE OF ENGINEERING
AND TECHNOLOGY**

(Approved by AICTE, New Delhi, Affiliated to JNTUH, Hyderabad)

Accredited by NAAC A Grade

Kondapur, Ghatkesar, Medchal-Malkajgiri Dist.,
Telangana – 501301

PART A- Profile of the Institution

Name of the Program applied for: Electronics & Communication Engineering

1. Name and Address of the Institution

SAMSKRUTI COLLEGE OF ENGINEERING AND TECHNOLOGY, KONDAPUR(V) ,
GHATKESAR (M), MEDCHAL-MALKAJIRI(D)

2. Name and Address of Affiliating University

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

3. Year of establishment of the Institution: 2005

4. Type of the Institution:

☐ University	☐ Autonomous
☐ Deemed University	☒ Affiliated
☐ Government Aided	

5. Ownership Status:

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

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

Name of Institutions	Year of Establishment	Programs of Study	Location
Samskruti College of Pharmacy	2006	B.Pharmacy,M.Pharmacy, Pharm.D and Phram.D(PB)	Kondapur, Ghatkesar, Medchal-Malkajgiri District
St Vincent PG College	2001	MBA, MCA	Mysammagutta, Shivarreddyguda, Ghatkesar, Medchal-Malkajgiri District

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

Name of Program	Program Applied level	Start of year	Year of AI CT E approval	Initial Intake	Intake Increase	Current Intake	Accreditation status	From	To	Program for consideration	Program for Duration
Electronics and Communication Engineering	UG	2005	2005	60	60	120	Applying firsttime	--	- -	Yes	4
Sanctioned Intake for Last Five Years for the Electronics and Communication Engineering											
Academic Year				Sanctioned Intake							
2022-23				60							
2021-22				120							
2020-21				120							
2019-20				120							
2018-19				120							
2017-18				120							
2016-17				120							
Computer Science and Engineering	UG	2005	2005	60	No	60	Applying firsttime	--	- -	No	4
Sanctioned Intake for Last Five Years for the Computer Science and Engineering											
Academic Year				Sanctioned Intake							
2022-23				120							
2021-22				60							

2020-21				60							
2019-20				60							
2018-19				60							
Civil Engineering	UG	2009	2009	60	Yes	30	Not eligible for accreditation	--	-	No	4
Sanctioned Intake for Last Five Years for the Civil Engineering											
Academic Year				Sanctioned Intake							
2022-23				30							
2021-22				60							
2020-21				60							
2019-20				120							
2018-19				120							
2017-18				120							
2016-17				120							

Name of Program	Program Applied level	Star t of year	Ye ar of AI C TE appro val	Init ial Int ake	Intak e Incre ase	Curr ent Inta ke	Accredit ation status	Fro m	To	Program for consider ation	Prog ram for Dura tion
ELECTRICAL AND ELECTRONICS ENGINEERING	UG	2005	2005	60	Yes	30	Eligible but not applied	--	-	No	4
Sanctioned Intake for Last Five Years for the Electrical and Electronics Engineering											

2022-23	30
2021-22	60
2020-21	60
2019-20	60
2018-19	60

MECHANICAL ENGINEERING	UG	2009	2009	60	Yes	30	Not eligible for accreditation	--	-	No	4
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Sanctioned Intake for Last Five Years for the MECHANICAL ENGINEERING

Academic Year	Sanctioned Intake
2022-23	30
2021-22	60
2020-21	60
2019-20	120
2018-19	120

COMPUTER SCIENCE AND ENGINEERING (DATA SCIENCE)	UG	2020	2020	60	Yes	90	Not eligible for accreditation	--	-	0	4
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Sanctioned Intake for Last Five Years for the COMPUTER SCIENCE AND ENGINEERING (DATA SCIENCE)

Academic Year	Sanctioned Intake
2022-23	90
2021-22	60
2020-21	60

Computer Science And Engineering (Artificial Intelligence And Machine Learning)	UG	2020	2020	60	Yes	120	Not eligible for accreditation	--	--	No	4
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Sanctioned Intake for Last Five Years for the COMPUTER SCIENCE AND ENGINEERING (ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING)

Academic Year	Sanctioned Intake
2022-23	120
2021-22	60
2020-21	60

Master Of Business Administration	PG	2007	2007	60	Yes	120	Eligible but not applied	--	-	No	2
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Sanctioned Intake for Last Five Years for the Master Of Business Administration

Academic Year	Sanctioned Intake
2021-22	120
2020-21	120
2019-20	180
2018-19	180
2017-18	180
2016-17	180

8. Programs to be considered for Accreditation vide this application:

S No	Level	Discipline	Program
1	Under Graduate	Engineering & Technology	Computer Science and Engineering.
2	Under Graduate	Engineering & Technology	Electronics and Communications Engineering

9. Total number of employees in the institution:**A. Regular* Employees (Faculty and Staff):**

Items	2022-23		2021-22		2020-21		2019-20	
	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX
Faculty in Engineering (Male)	79	79	74	74	67	67	83	83
Faculty in Engineering (Female)	62	62	54	54	38	38	36	36
Faculty in Maths, Science & Humanities (Male)	11	11	8	8	8	8	11	11
Faculty in Maths, Science & Humanities (Female)	17	17	13	13	13	13	11	11
Non-teaching staff (Male)	42	42	42	42	42	42	42	42
Non-teaching staff (Female)	28	28	28	28	28	28	28	28

B. Contractual* Employees (Faculty and Staff):

Items	2022-23		2021-22		2020-21		2019-20	
	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX
Faculty in Engineering (Male)	-	-	-	-	-	-	-	-
Faculty in Engineering (Female)	-	-	-	-	-	-	-	-
Faculty in Maths, Science & Humanities (Male)	-	-	-	-	-	-	-	-
Faculty in Maths, Science & Humanities (Female)	-	-	-	-	-	-	-	-
Non-teaching staff (Male)	-	-	-	-	-	-	-	-
Non-teaching staff (Female)	-	-	-	-	-	-	-	-

10. Total number of Engineering Students:

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

Engineering and Technology- UG Shift-1

Items	2022-23	2021-22	2020-21	2019-20
Total no. of Boys	284	286	319	281
Total no. of Girls	113	117	82	107
Total	397	403	401	388

Engineering and Technology- MBA Shift-1

Items	2022-23	2021-22	2020-21	2019-20
Total no. of Boys	56	52	67	24
Total no. of Girls	63	36	45	24
Total	119	88	112	48

11. Vision of the Institution:

To be an Institution moulding globally competent professionals as essence of noble values.

12. Mission of the Institution:

To transform the young generation as technically competent, ethically sound and socially committed professionals by providing a vibrant learning ambience, for the welfare of Society.

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

Head of the Institution	
Name	Dr J.Govardhan
Designation	Principal
Mobile No.	9701368997
Email ID	principal.samskruti@gmail.com

NBA Coordinator, If Designated: -

PART B: Criteria Summary

Name of the Program: B. Tech (Electronics & Communication Engineering)

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

1 VISION, MISSION AND PROGRAM EDUCATIONAL OBJECTIVES (60)**1.1 State the Vision and Mission of the Department and Institute (5)**

Vision of the institute	To be an Institution moulding globally competent professionals as essence of noble values.	
Mission of the institute	To transform the young generation as technically competent, ethically sound and socially committed professionals by providing a vibrant learning ambience, for the welfare of Society.	
Vision of the Department	To develop competent technocrats who strive continuously in pursuit of personal excellence in the field of Electronics and Communication Engineering.	
Mission of the Department	Mission No.	Mission Statements
	M1	To Provide State-of-art technical education in Electronics and Communication at Undergraduate and Post Graduate levels.
	M2	To impart high Quality Technical & Professional education in order to mould the learners into globally competitive professionals who are professionally deft, intellectually adept and socially responsible.
	M3	To make the learners inculcate and imbibe pragmatic perception and pro-active nature, so as to enable them to acquire a vision for exploration and an insight for advanced inquiries.

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

PEO No.	Program Educational Objectives Statements
PEO1	Graduates shall excel in professional career and/or higher education by acquiring fundamental knowledge in Mathematics, Applied Science, Basic Engineering principles and Computational skills.
PEO2	Graduates shall analyze the real life problems, core design in electrical systems and allied fields to the requirement of techno world adaptability, economically feasible and socially acceptable.
PEO3	Graduates shall exhibit professionalism, ethical attitude, communication skills, team work in their profession, adapt to current trends by engaging in lifelong learning and participate in research & development

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

Vision and Mission and the Program Educational Objectives are displayed / published / disseminated among the stakeholders through the following medium.

Medium	Stakeholders
College Website http://samskruti.ac.in/engineering/ece-vision-mission/ http://samskruti.ac.in/engineering/ece-peos-pos/	All Stakeholders
College/Department Noticeboards	Students, Faculty, Parents, Supporting Staff, On Campus Recruiters, Invited Lecturers, Alumni, Governing Body, Visitors, Management
Central/Department Library	Students, Faculty, Visitors
Lab Records, Manuals	Students, Faculty In charges, Supporting Staff
Laboratories	Students, Faculty in charges, Supporting Staff, Visitors
Course Files/Handouts	Students, Faculty, External Resource Persons
Meetings/Circulars	Faculty, Governing Body
Parent-Teacher Meeting	Parents, Students, Faculty
Office Rooms/Staff Rooms/Department Corridors	Students, Faculty, Support Staff, Visitors

The Institution believes that the Vision and Mission and Program Educational Objectives(PEOs) are to be known by every stakeholder. The media chosen for dissemination ensures that all the Stakeholders are repeatedly made aware of the Vision and Mission and Program Educational Objectives, thereby ensuring that all the efforts are directed at attaining best possible learning Outcomes.

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

The Vision and Mission of the department are defined in tune with the Institutional Vision and Mission, considering the expectations of Academic Institutions as well as Electronics and Communication Engineering Industry, and having discussions with reputed people from both Academia and Industry.

The steps in defining Vision and Mission are:

Step 1: The Vision and Mission of the Institute was taken as basis for defining the Vision and Mission of the Department.

Step 2: Department Committee takes inputs from the internal stakeholders.

Step 3: Department Committee takes inputs from External stakeholders.

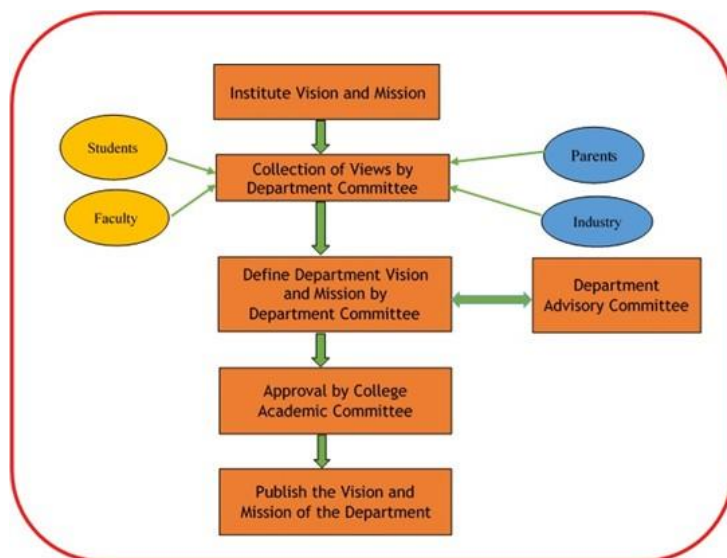
Step 4: Department committee takes inputs from all stakeholders and also from students and sends entire data to the department decision making committee.

Step 5: Department committee sends the draft for review to the Department Advisory Committee (consisting of Industrial/Academician/Professional society members) for its approval.

Step 6: Department Advisory Committee reviews and send back Vision and Mission of the Department (with or without changes) to Department Committee.

Step 7: The Department Committee finalizes the Department's Vision and Mission and would be sent to the College Academic Committee.

Step 8: Then Department Committee finalizes and publishes the Vision and Mission.



The following process was adapted for defining the PEOs of the Department:

The Program Educational Objectives are framed through a consultation process involving the core constituents such as: Students, Alumni, Industry person, Faculty and Employer.

The PEOs are established through the following process steps:

Step 1: Vision and Mission of the Department are taken as a basis for establishing the PEOs.

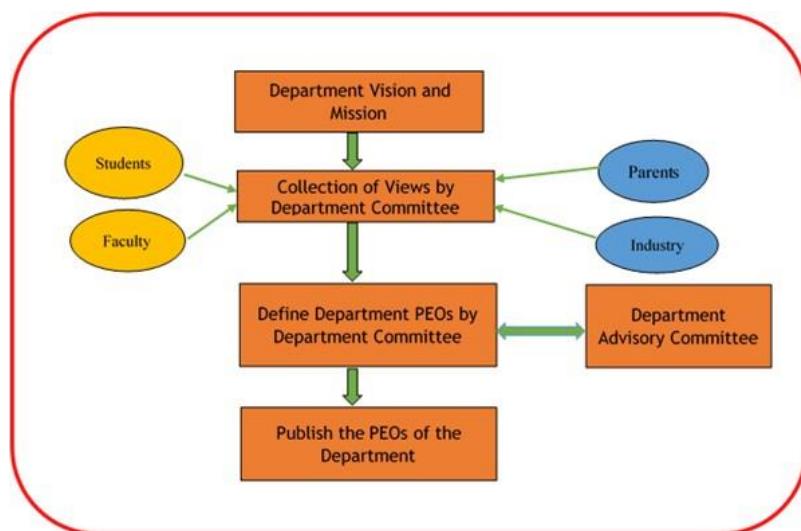
Step 2: Department Committee consults the stake holders and collects their views.

Step 3: Department Committee sends the draft for review to the Department Advisory Committee for its approval.

Step 4: Department Advisory Committee (DAC) reviews them and sends back PEOs (with or without changes) to Department Committee.

Step 5: Then Department Committee finalizes and publishes the PEOs.

Process for defining PEOs of the Department is as shown in the flow chart below:



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

Mapping	Justification
PEO1	DM1 Highly supports to provide State-of-art technical education in Electronics and Communication at undergraduate and post graduate levels. DM2 Highly supports to impart high quality technical and professional education in order to mould the learners into globally competitive professionals. DM3 slightly supports to make the learners inculcate and imbibe pragmatic perception and pro-active nature to acquire a vision for exploration and advanced inquiries.
PEO2	DM1 Moderately supports to provide the technical education at undergraduate and post graduate levels. DM2 Highly supports to impart the quality technical and professional education in order to mould the learners into globally competitive professionals who are professionally deft, intellectually adept and socially

	responsible. DM3 slightly supports the learners to inculcate and imbibe pragmatic perception and pro-active nature to acquire a vision for exploration.
PEO3	DM1 Moderately supports to the technical education in the field of Electronics and Communication at graduate levels. DM2 Highly supports to quality Research and development activities in the professional education in order to mould the learners into globally competitive professionals. DM3 slightly supports the learners inculcate and imbibe pragmatic perception and pro-active nature to acquire a vision for exploration and insight for advanced inquiries.

PEO Statements	M1	M2	M3
Graduates shall excel in professional career and/or higher education by acquiring fundamental knowledge in Mathematics, Applied Science, Basic Engineering principles and Computational skills.	3	3	1
Graduates shall analyze the real life problems, core design in electrical systems and allied fields to the requirement of techno world adaptability, economically feasible and socially acceptable.	2	3	1
Graduates shall exhibit professionalism, ethical attitude, communication skills, team work in their profession, adapt to current trends by engaging in lifelong learning and participate in research & development	2	3	1

2. PROGRAM CURRICULUM AND TEACHING - LEARNING PROCESSES (120)

2.1 Program Curriculum (20)

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 Annexure I. Also mention the identified curricular gaps, if any (10)

Samskruti College of Engineering and Technology is affiliated to Jawaharlal Nehru Technological University Hyderabad (JNTUH), Hyderabad, Telangana State. All subjects/ courses offered for the under graduate programme in Electronics and Communication Engineering (B.Tech. degree programmes) are as per JNTUH norms . The University has followed almost all the guidelines issued by AICTE/UGC.

- The distribution of courses among curriculum components is done as prescribed by the affiliated university JNTU Hyderabad. These curriculum components are in turn mapped to POs and PSOs
- COs of all the courses in the curriculum are then mapped to POs defined by NBA with proper correlation factor.
- PAC reviews the computed values and any PO not correlated to any course indicates a curriculum gap.
- The BoS corrects the gaps and recommends organizing various activities such as workshops, seminars, guest lectures, certificate and value-added courses

UNIVERSITY CURRICULUM

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

- The program curriculum is categorized into various streams like Basic Sciences and Humanities, Basic Engineering Courses, Professional Core Courses, Management and Elective courses.
- Courses in each stream are identified.

- Course Outcomes (COs) are defined for all the courses.
- COs are mapped with POs and PSOs.

PROGRAM CURRICULUM

Basic Sciences and Humanities

The stream includes courses like Engineering Mathematics, Engineering Physics, Engineering Chemistry, Constitution of India, Professional Ethics and Environmental studies. These courses form the fundamental basis for all engineering disciplines which provides basic knowledge on Mathematics, Physics, Chemistry, Indian constitution, Professional Ethics and importance of Environment.

Basic Engineering Courses

The stream includes courses like Basic Electrical Engineering, Engineering Workshop, Programming in C, Engineering drawing, Analog and Digital Electronics. These courses provide the fundamental knowledge on all engineering disciplines.

Professional Core Courses

The stream include courses relevant to the specific program and are meant to develop competencies required so that students acquire outcomes as desired by the profession. The course studies include core courses like Electronic Devices and Circuits, Digital System Design, Signals and Systems, Probability Theory and Stochastic Processes, Analog and Digital Communications, Linear IC Applications, Electronic Circuit Analysis, Microprocessors & Microcontrollers, Data Communications and Networks, Antennas and Propagation, Digital Signal Processing etc. Industrial Oriented Mini Project / Summer Internship, Project work and Technical Seminar are included in final year to provide opportunity for students to develop understanding of the inter relationship between courses, develop and demonstrate higher order skills, and to apply the gained knowledge.

Management Courses

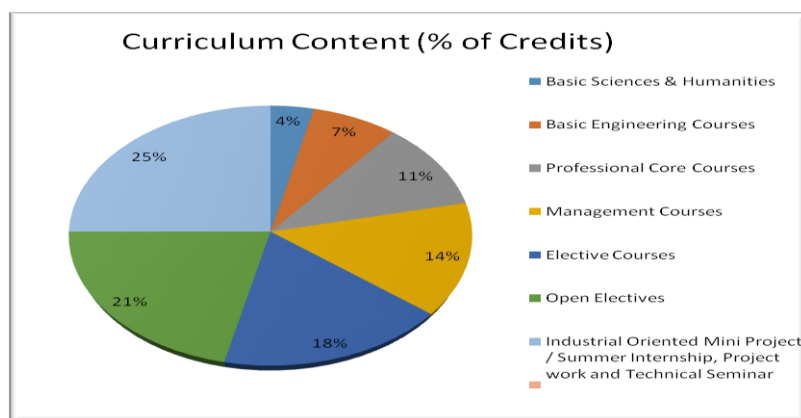
The stream includes courses like Business Economics & Financial Analysis, Industrial Management. These are essential to create awareness on Managerial & Entrepreneurial skills.

Elective Courses includes Professional and Open Electives

The stream includes courses like Digital Image Processing, Embedded System Design, Electronic Measurements and Instrumentation, Network Security and Cryptography, Wireless Sensor Networks and System On-chip Architecture.

Table: Various streams of program curriculum

S.No	Streams	Curriculum Content (Number of Credits)	Curriculum Content (% of Credits of the Program)	POs	PSOs
1.	Basic Sciences & Humanities	33	20.625	1,2,6,7,8	-
2.	Basic Engineering Courses	11	6.875	1,2,3,4,5,6,12	1,2
3.	Professional Core Courses	73	45.625	1,2,3,4,5,12	1,2
4.	Management Courses	3	1.875	1,6,7,8,9,10,11,12	-
5.	Elective Courses	18	11.25	1,2,3,4	1,2
6.	Open Electives	9	5.625	1,2,3,4	-
7.	Industrial Oriented Mini Project / Summer Internship, Project work and Technical Seminar	13	8.125	1,2,3,4,5,6,7,8,9,10,11,12	1,2
Total		160	100	1,2,3,4,5,6,7,8,9,10,11,12	1,2



CURRICULAR GAPS

The courses and the course content prescribed in the curriculum are mapped to the relevant POs and PSOs through individual course outcomes (COs). Curriculum gaps are identified through consolidation of average CO – PO/PSO mapping of all courses. The identified curricular gaps are as listed below.

Gap Identification

A.Y 2021-22

S.No	Name of the course	Gap Identified	Mapping to Pos/PSOs	Proposed Action
1	Embedded Systems, Wireless Sensor_Networks	Students require knowledge on Aurdino environment	PO1,PO2,PO3,PO4, PO11,PO12,PSO1,PSO2	A Two day work shop on IoT
2	Electronics Devices and Circuits & Electronic Circuits and Analysis	Students are required to have skills to design PCB circuits	PO1,PO2,PO3,PO4, PO11,PO12,PSO1,PSO2	A Two day work shop on PCB Design
3	Digital System Design	Students are required to learn about logic gates , flip flops and sequential Circuits	PO1,PO2,PO3,PO4, PO11,PO12,PSO1,PSO2	Guest Lecture on Digital System Design
4	AI / ML	Students are required to have skills to design and develop	PO1,PO2,PO3,PO4, PO11,PO12,PSO1,PSO2	A Two Day Work Shop On AI/ML

		solutions using modern tools		
5	Microwave Remote Sensing	Students are required knowledge about satellites launching	Industrial Visit	Dr.G.Padma Scientist

A.Y 2020-2021

S.No	Name of the course	Gap Identified	Mapping to Pos/PSOs	Proposed Action
1.	Satellite communication	Students are required knowledge about satellites launching	PO1,PO2,PO3,PO4, PO11,PO12,PSO1,P SO2	Industrial Visit - Satellite Launching
2.	Analog and Digital communication	Students require knowledge on broadcasting Technology	PO1,PO2,PO3,PO4, PO11,PO12,PSO1,P SO2	Industrial Visit - Doordarshan Kendra
3.	Satellite communication	Students are required knowledge about satellites launching, PSLV'S, GSLV'S	PO1,PO2,PO3,PO4, PO11,PO12,PSO1,P SO2	Industrial Visit - Satellite Launching
4.	AI &ML	Students are required to have skills to design and develop	PO1,PO2,PO3,PO4, PO11,PO12,PSO1,P SO2	Two Week Add –On Programme On AI &ML

		solutions using modern tools		
5.	Electronics Devices and Circuits	Students are required to have knowledge on GRE, TOFEL	PO1,PO2,PO3,PO4, PO11,PO12,PSO1,PSO2	A Two Weeks Certificate Program On PCB Design For Electrical And Electronics And Application
6.	Optical Communications	Students are required to have skills to design PCB circuits	PO1,PO2,PO3,PO4, PO11,PO12,PSO1,PSO2	Guest Lecture on Optical Fiber Communications and Transmission Technology
7.	Optical Communications	Students are required to learn about existing technology on fiber optics	PO1,PO2,PO3,PO4, PO11,PO12,PSO1,PSO2	Guest Lecture on networking and Data Communications
8.	Computer Networks	Students are required to learn about existing technology on networking	PO1,PO2,PO3,PO4, PO11,PO12,PSO1,PSO2	Gate coaching classes for Higher education

A.Y 2019-2020

S.No	Name of the course	Gap Identified	Mapping to Pos/PSOs	Proposed Action
1.	LAB View	Students require Exposure to the Design &	PO1,PO2,PO3,PO4, PO11,PO12,PSO1,PSO2	Three week certificate program on Multi Disciplinary Applications using

		Simulation		LAB View
2.	Artificial Intelligence	Students are required to have knowledge on ARTIFICIAL INTELLIGENCE	PO1,PO2,PO3,PO4, PO11,PO12,PSO1,PSO2	WORK SHOP ON ARTIFICIAL INTELLIGENCE
3.	Electronics Circuits and Analysis	Students require knowledge on MATLAB and its Applications using simulation tools	PO1,PO2,PO3,PO4, PO11,PO12,PSO1,PSO2	A THREE Weeks Program On PCB Design For Electrical And Electronics And Application

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

INITIATIVES TAKEN TO ADDRESS CURRICULAR GAPS

The department has initiated the following measures to bridge the identified curricular gaps.

Guest lecturers: Experts from industry and academia are invited to deliver lectures on the latest trends and thrust areas in Electronics and Communication Engineering.

Technical talk: Students are kept updated about the advances in technologies through technical seminars.

Workshops: The department has introduced a novel initiative for students, wherein they are encouraged to participate in hands-on workshops, thereby enhancing their application skills.

Soft skill training: The department emphasizes on personality development through soft skills training programs to improve the employability of students.

Industrial visits: Visits to reputed industries are organized every year to keep the students abreast with applications of Electronics and Communication Engineering.

Internships: Students are encouraged to take-up short-term internships in industries and recognized R&D centers to understand industry practices.

A.Y 2021-2022

S.No	Gap	Action Taken	Date-Month-Year	Resource Person with Designation	% of students	Relevance to POs, PSOs
1	Students require knowledge on Aurdino environment	A Two day work shop on IoT	16/11/2022 To 17/11/2022	Mr. J.Sunil Kumar Associate Professor	30	PO1,PO2, PO3,PO4, PO5,PO6, PO10, PO11,PO12,PSO1,PSO2
2	Students are required to have skills to design PCB circuits	A Two day work shop on PCB Design	20/01/2023 to 21/01/2023	Mr. J.Sunil Kumar Associate Professor	40	PO1,PO2,PO3,PO4,PO5,PO9,PO10,PSO1,PSO2
3	Students are required to learn about logic gates , flip flops and sequential Circuits	Guest Lecture on Digital System Design	06/01/2023 To 07/01/2023	Mr S.Rajender Kumar Associate professor	70	PO1,PO2,PO3,PO4,PO5,PO6,PO10, PO11,PO12,PSO1, PSO2
4	Students are required to have skills to design and develop solutions using modern tools	A Two Day Work Shop On AI/ML	12/12/2022 to 13/12/2022	Mr. K. Ashok Reddy Assistant Professor	30	PO1,PO2,PO3,PO4, PO5,PO9,PO10,PSO1,PSO2
	Students are required knowledge	Industrial Visit	1/5/2023	Dr.G.Padma Scientist	76	PO1,PO2,PO3,PO4, PO5,PO9,PO10,PSO1,PSO2

	about satellites launching					
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A.Y 2020-21

S. No	Gap	Action Taken	Date- Month- Year	Resource Person with Designation	% of students	Relevance to POs, PSOs
1	Students are required knowledge about satellites launching	Industrial Visit - Satellite Launching	01/07/2022	Mr. Raghvan Scientists (ISRO)	76	PO1,PO2,PO3,PO4,PO5,PO6,PO10,PO11,PO12,PSO1,PSO2
2	Students require knowledge on higher education	Seminar on career Counseling	10/02/2022	Mr. Rambabu Atmakuri Assistant Professor	60	PO1,PO2,PO3,PO4,PO5,PO9,PO10,PSO1,PSO2
3	Students require knowledge on broadcasting Technology	Industrial Visit -Doordarshan Kendra	02/01/2022	Mr Sreenivas Sr.Divisional Engineer	70	PO1,PO2,PO3,PO4,PO5,PO6,PO10,PO11,PO12,PSO1,PSO2
4	Students are required knowledge about satellites launching, PSLV'S, GSLV'S	Industrial Visit - Satellite Launching	13/12/2021	Mr. Raghvan Scientists ISRO	85	PO1,PO2,PO3,PO4,PO5,PO6,PO10,PO11,PO12,PSO1,PSO2

5	Students are required to have knowledge on Aptitudes, Reasoning	Seminar on Career Aspects in Overseas Education	03/12/2021	Mr.Kamal Kanth Vice President Azent Overseas education	80	PO1,PO2,PO3,PO4 ,PO5,PO9,PO10,PSO1,PSO2
6	Students are required to have skills to design and develop solutions using modern tools	Two Week Add –On Programme On AI &ML	02/12/2021	P.Ashok Kumar Project Manager	70	PO1,PO2,PO3,PO4 ,PO11,PO12,PSO1, PSO2
7	Students are required to have knowledge on GRE,TOFEL	Seminar on Career Aspects in Higher Education	30/11/2021	Mr.Kamal Kanth Vice President Azent Overseas education	80	PO1,PO2,PO3,PO4 ,PO5,PO9,PO10,PSO1,PSO2
8	Students are required to have skills to design PCB circuits	A Two Weeks Certificate Program On PCB Design For Electrical And Electronics And Application	25/11/2021	P.Surender Babu Project Manager	75	PO1,PO2,PO3,PO4 ,PO11,PO12,PSO1, PSO2
9	Students are required to learn about existing technology on fiber optics	Guest Lecture on Optical Fiber Communications and Transmission Technology	13/11/2021	Dr P.Lova Kumar Sr.Manager in Regional Telecommunication Training Center, BSNL	90	PO1,PO2,PO3,PO4 ,PO5 PO11,PO12,PSO1, PSO2

10	Students are required to learn about existing technology on networking	Guest Lecture on networking and Data Communications	12/11/2021	Dr. T. S. Srinivas, Sr.Manager in Regional Telecommunication Training Center, BSNL	90	PO1,PO2,PO3,PO4,PO5,PO6,PO10,PO11,PO12,PSO1,PSO2
11	Students require knowledge on higher education	Gate coaching classes for Higher education	14/12/2020	K.N.Rao Educator Unacademy	70	PO1,PO2,PO3,PO4,PO5,PO9,PO10,PSO1,PSO2

A.Y 2019-20

S. No	Gap	Action Taken	Date-Month-Year	Resource Person with Designation	% of students	Relevance to POs, PSOs
1	Students require Exposure to the Design & Simulation	Three week certificate program on Multi Disciplinary Applications using LAB View	17/02/2020	Dr. Y. Srinivas HOD & Professor	60	PO1,PO2,PO3,PO4,PO5,PO9,PO10,PSO1,PSO2
2	Students require knowledge on GRE, IELTS	Seminar on GRE, IELTS for Overseas Education	15/02/2020	Mr P. Rajendra Prasad Assistant Professor	80	PO1,PO2,PO3,PO4,PO5,PO9,PO10,PSO1,PSO2
3	Students require knowledge on higher education	Gate coaching classes for Higher education	19/12/2019	K.N.Rao Educator Unacademy	70	PO1,PO2,PO3,PO4,PO5,PO9,PO10,PSO1,PSO2

4	Students are required to have knowledge on ARTIFICIAL INTELLIGENCE	WORK SHOP ON ARTIFICIAL INTELLIGENCE	20/11/2019	P.Surender Babu Project Manager	60	PO1,PO2,PO3,PO4, PO11,PO12,PSO1,PSO2
5	Students are required to have skills to design PCB circuits	A THREE Weeks Program On PCB Design For Electrical And Electronics And Application	27/10/2019	P.Surender Babu Project Manager	60	PO1,PO2,PO3,PO4, PO11,PO12,PSO1,PSO2
6	Students are required knowledge about satellites	Industrial visit - NRSC	25/09/2019	Dr G.Padmarani Scientist, Outreach Facility, NRSC	60	PO1,PO2,PO3,PO4,PO5,PO9,PO10, PSO1,PSO2
7	Students require knowledge on Networking, Fiber Optics	Industrial visit - Regional Telecommunication Training Center, BSNL	20/08/2019	M.Shiva Rama Krishna SDE - BSNL	60	PO1,PO2,PO3,PO4,PO5,PO9,PO10, PSO1,PSO2

A.Y 2018-19

S.No	Gap	Action Taken	Date-Month-Year	Resource Person with Designation	% of students	Relevance to POs, PSOs
1	Students are required knowledge	Industrial visit - NRSC	01/03/2019	Dr G.Padmarani	60	PO1,PO2,PO3,PO4,PO5,PO9,PO10,PSO1,PSO2

	about satellites launching			Scientist, Outreach Facility, NRSC		
2	Students are required to have knowledge on Aptitudes, Reasoning	CAREER COUNSELLING ON CRT PROGRAM	04/02/2019	Mr.Kamal Kanth Vice Presient Azent Overseas education	70	PO1,PO2,PO3,P O4,PO5,PO9,PO 10,PSO1,PSO2
3	Students are required knowledge about Semiconductors and diodes	Industrial visit - LED chip indus pvt ltd	06/10/2018	Mr.KVK Gupta Managing Director	60	PO1,PO2,PO3,P O4,PO5,PO9,PO 10,PSO1,PSO2
4	Students are required to have knowledge on ROBOTICS	3 DAY WORK SHOP ON ROBOTICS	27/08/2018	P.Surender Babu Project Manager	70	PO1,PO2,PO3,P O4, PO11,PO12,PS O1,PSO2
5	Students require knowledge on MATLAB and its Applications using simulation tools	Two week certificate program on Matlab and its applications workshop	13/08/2018	K.VANISRE E Associate Professor	60	PO1,PO2,PO3,P O4, PO11,PO12,PS O1,PSO2
6	Students require knowledge on MATLAB TOOLS	Two week certificate program on Basics of Matlabprogramme	16/07/2018	P.Surender Babu MANAGING DIRECTOR	60	PO1,PO2,PO3,P O4, PO11,PO12,PS O1,PSO2

2.2. Teaching - Learning Processes (100)

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

The Department prepares calendar of events based on the academic calendar of JNTUH and calendar of events of the college. The calendar of events of the Department includes the activities planned like Guest Lecturers, Industrial Visits and Workshops as per scheduled dates. The staff members and students are adhering to the calendar of events to meet the Department's planned events. The academic calendars of JNTUH, calendar of events of college and the Department are shown in given below respectively. Lesson plan for each course is designed by the course coordinators adhering to the calendar of events of the Department.

University Academic Calendar 2022-23.

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

ACADEMIC CALENDAR 2022-23

B.Tech/B.Pharm. II YEAR I & II SEMESTERS

I SEM

S. No	Description	Duration	
		From	To
1	Commencement of I Semester classwork		28.11.2022
2	1 st Spell of Instructions	28.11.2022	21.01.2023 (8 Weeks)
3	First Mid Term Examinations	23.01.2023	30.01.2023 (1 Week)
4	Submission of First Mid Term Exam Marks to the University on or before		04.02.2023
5	2 nd Spell of Instructions	31.01.2023	29.03.2023 (8 Weeks)
6	Second Mid Term Examinations	31.03.2023	08.04.2023 (1 Week)
7	Preparation Holidays and Practical Examinations	10.04.2023	15.04.2023 (1 Week)
8	Submission of Second Mid Term Exam Marks to the University on or before		15.04.2023
9	End Semester Examinations	17.04.2023	29.04.2023 (2 Weeks)

Note: No. of Working / Instructional Days: 93

II SEM

S. No	Description	Duration	
		From	To
1	Commencement of II Semester classwork		01.05.2023
2	1 st Spell of Instructions (including Summer Vacation)	01.05.2023	08.07.2023 (10 Weeks)
3	Summer Vacation	15.05.2023	27.05.2023 (2 Weeks)
4	First Mid Term Examinations	10.07.2023	15.07.2023 (1 Week)
5	Submission of First Mid Term Exam Marks to the University on or before		22.07.2023
6	2 nd Spell of Instructions	18.07.2023	11.09.2023 (8 Weeks)
7	Second Mid Term Examinations	12.09.2023	16.09.2023 (1 Week)
8	Preparation Holidays and Practical Examinations	19.09.2023	23.09.2023 (1 Week)
9	Submission of Second Mid Term Exam Marks to the University on or before		23.09.2023
10	End Semester Examinations	25.09.2023	07.10.2023 (2 Weeks)

Note: No. of Working / Instructional Days: 92

Sd./-xxxx
REGISTRAR

Use of Various instructional methods and pedagogical initiatives

The Faculty are now oriented towards Outcome Based Education (OBE) and are actively utilizing the OBE to cater to the learning needs of students by innovative methods.

The Faculty of Department adapts various innovative Teaching & Learning methodologies to create the best learning environment for students. These methodologies include traditional black board teaching, presentations, video lecturing, collaborative learning methods etc. as given below.

Lecture method and Interactive learning

The Faculty use chalk and board and audio-visual aids in teaching. Students are encouraged to actively interact during the lecture hour by getting the doubts clarified. Further, students are also encouraged to give seminars relevant to the subjects which add to their presentation skills.

Project-based learning

During IV Year I Semester, the students are encouraged to carry out mini projects and in the II Semester academic projects are executed under the guidance of Faculty.

Computer-Assisted learning

The Department is equipped with sufficient number of computers, LCD projectors, internet facility, application software, system software and printers which are effectively used for teaching and learning. The students are also encouraged to undergo E-learning programs. Faculty members are making effective use of sources like National Programme on Technology Enhanced Learning (NPTEL), internet sources for effective teaching.

Experiential Learning

It is used to stimulate students in igniting and developing their own ideas in a self-directed way. Each student has to do a Project as part of the curriculum where the student can choose a domain of their interest and implement their innovation. The students are motivated to do industry and research oriented projects.

Content beyond the experiments are assigned to the student to fill the gap between curriculum and industry requirements.

Participative Learning

Industrial / field visits / internship at Industry and/or renowned institutions are mandatory.

Participation in professional societal activities of CSI, etc. are currently mandatory.

Students are involving group discussion and also seminar presentation in very course related topics.

Students are encouraged and presently made mandatory to take Online Courses offered by premier institutions of the country.

Each course handling conducting Quiz, Debate for the sharing of the student technical knowledge.

Industry projects and collaborations are undertaken to enrich students with pre-employment training.

Periodical Guest lectures on topics relevant to employment skills by personnel from respective organizations / industry.

Impact analysis

The following positive outcomes are observed after adopting the above mentioned innovative TLP.

Improved attendance of students for every class.

Improvement in results.

Active participation of students in OBE activities. Innovative project ideas are derived in class.

Better bonding between students and Faculty.

Appreciation from the parents.

Conduction of Experiments

Curriculum stipulates 2 or 3 laboratory courses per semester from 1st to 7th semester. All laboratories are well equipped with essential hardware, software and instructional manuals.

The observation and record books are checked, verified and maintained. Two Faculty members and one instructor are assigned for each lab session.

The following innovative methods are adopted by the Faculty for the Laboratories.

The Laboratories are conducted in session of 3 hours. In each session the Faculty will explain the relative to the experiment to be conducted. The students will write the complete experiment in the observation book, execute and the results obtained are analyzed.

The executed experiment with theory, procedure, Algorithm/flowchart and output are documented in the record book by the students later.

Viva questions are asked at the end of every laboratory session for better understanding of the experiment.

The Laboratory courses are evaluated by the Faculty based on continuous evaluation and internal test for 25 marks.

Continuous Assessment in laboratory

Continuous assessment system is implemented for assessment of laboratory work. The assessment is done on the basis of student involvement in performing, understanding the experiment and on time submission of laboratory records.

Impact analysis

Improvement in analytical/logical abilities of students.

Improvement in placement.

Able to apply knowledge for implementing academic projects in multidisciplinary environments.

Able to work as an individual or in a team.

Able to comprehend and document the reports.

Methodologies to support slow learners and encourage bright students

The slow learners and advanced learners are identified based on their overall performance in university exams and internal assessment. The mentors regularly monitor the progress of their

mentees. The class teachers along with mentors assess the progress of the students after every Internal Assessment (AI) test and the parents are intimated. The process used to identify the slow learners and advanced learners are as follows.

Parameters of Identifying Slow learning levels:

1. Performance in Internal Exams.
2. Interest Level of participating in any given task.
3. Emotional stability.
4. Level of language command.
5. Ability to handle Multi Tasks.

The measures adopted to improve slow learning level:

1. A personal counseling session to increase the morale of the student.
2. Adopting a Target Oriented approach.
3. Adopting more creative methodology while explaining.
4. Adopting a win-win approach in a playful manner.
5. Conducting Basic Level Technical coaching
6. Appreciating every single achievement.
7. Taking their ideas and implementing them.
8. Conducting Tech Quiz (Basic level).

The above pointers act as a strong guiding force in order to raise students learning bar from slow to advanced one.

Parameters of Identifying Advanced learning levels:

1. Performance in Internal Exams.
2. The interest level of participation in any given task.
3. The ability to handle Multi Tasks.
4. Scanning Leadership Skills
5. Level of Vocabulary.
6. The pace of fluency during public speaking assignments.

The measure adopted to Polish Advanced learning level:

1. Conducting Interactive sessions to know their area of interest.
2. Promoting their Ideas.
3. Conducting Advanced Level Technical Coaching.
4. Conducting sessions on competitive exam preparation.
5. Encouragement on active participation in various tech activities..
6. Supporting on paper presentation at different platforms.
7. Organizing Tech Quiz.
8. Conducting Tech Work Shops for a quick brush up.

The above pointers aid in polishing advanced learners knowledge and skill set.

Student feedback of teaching learning process and action taken

After the 1st internal, all the students are required to undergo filling the online feedback-form to apprise the Faculty on the scale of 1 (low) to 5 (high). Based on the student's feedback, HOD of the Department and senior Professors will give valuable suggestions to improve the quality of teaching- learning wherever essential. Faculty development programs are conducted by professional experts to enhance the teaching skills of Faculty.

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

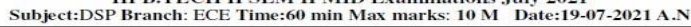
Continuous Internal Evaluation:

The assessment of the students' performance in each course is based on Continuous Internal Evaluation (CIE). The marks for each of the components of Internal Assessment are fixed as shown in the following Table by the Affiliating University

S.No	Assessment Component	Marks Allotted	Types of Assessment	Scheme of Examinations
1	Theory	25	Internal Examinations and Continuous Evaluation	Two Mid Examinations in each semester shall be conducted for 25 Marks each. The duration of examinations is for 90 minutes. Average of the two mid examinations shall be considered. The split of assessment type as follows I. Subjective test- 10 Marks II. Objective Test – 10 Marks III. Assignment – 5 Marks
2	Practical	25	Internal Examinations and Continuous Evaluation	25 marks are allotted for Lab Internal Exam The split of assessment type as follows 1. Internal Exam- 10 Marks 2. Day to Day Continuous evaluation- 15 Marks

In the case of theory subject, the respective faculty handling the subject designs the Subjective, Objective and Assignment Question Paper. In the case of lab examination, the concerned faculty evaluates the Internal Examination and Record Book components. Internal exam papers and Assignment papers are prepared based on desired Course Outcomes by following the Blooms Taxonomy Levels (BTL). The following example illustrates the process of Internal Assessments.

A sample internal question paper mapping each question to the desired Course Outcomes in the case of Theory subjects is illustrated below



Answer 2 full question from each Part.		2*5=10 Marks		
Q.No	Question	Marks	CO	Bloom's Level
1	Determine the direct form II realization of the following LTI system. $y(n) = x(n) - x(n-1) + 2x(n-2) - 3x(n-4)$	5	3	3
2	What is meant by "dead band" of the filter? Explain dead band of first order filter	5	4	3
3	Determine the order and poles of type-I chebyshev low pass filter for the given specifications $\alpha_p = 1dB$, $\alpha_s = 40dB$, $\Omega_p = 1000\pi rad/sec$, $\Omega_s = 2000\pi rad/sec$.	5	3	4
4	Design an ideal low pass filter with frequency response $H_d(e^{j\omega}) = 1 \text{ for } -\frac{\pi}{2} \leq \omega \leq \frac{\pi}{2}$ $= 0 \text{ for } \frac{\pi}{2} \leq \omega \leq \pi$ Find the values of $h(n)$ using hamming window for $N=11$. Find the $H(z)$.	5	3	3

SAMSKRUTI COLLEGE OF ENGINEERING & TECHNOLOGY
Kondapur Village, Ghatkesar Mandal, Medchal Dist. (Old R.R. Dist.)
ANSWER BOOK FOR MID TERM EXAMINATIONS

Unit Test/Lab Examination for ...II... Year II Semester Reg. No. of B.Tech. Course: ECE Branch: DSP

Roll No. 19UI5A0403M721

Instruction to the students

- Fill all the details neatly and legibly.
- Possessing of prohibited material or misbehaving with the invigilator/Co-students will lead to booking a malpractice case.
- Answer must be written neatly on both sides of the paper.
- Get your own Graph sheets/Data book/Data Tablets etc.
- It is the responsibility of the student to handover the answer script to the invigilator.

For Examiner use only

Q.No.	1	2	3	4	5
a		4	5		
b					
c					
Total		4	5		

GRAND TOTAL

In Figures: 9 In Words: Nine

Signature of the Student: P. Bhargava Signature of the Invigilator: [Signature]

(Start / Writing your answers from here)

3. Ans. $\angle p = 1 \text{ dB}$ $\angle p = 1090 \pi \text{ rad/sec}$

$\angle q = 40 \text{ dB}$ $\angle q = 300 \pi \text{ rad/sec}$

$N \geq \frac{\log_{10} \left(\frac{10^{0.1 \angle p} - 1}{10^{0.1 \angle q} - 1} \right)}{\log_{10} \left(\frac{10^{0.1 \angle p} - 1}{10^{0.1 \angle q} - 1} \right)} \geq \frac{\log_{10} \left(\frac{10^{0.1 \angle p} - 1}{10^{0.1 \angle q} - 1} \right)}{\log_{10} \left(\frac{10^{0.1 \angle p} - 1}{10^{0.1 \angle q} - 1} \right)} = 4.53$

$1 \leq N = 5$

$\epsilon = \sqrt{10^{0.1 \angle p} - 1} = \sqrt{10^{0.1 \angle p} - 1} = 0.508$

$M = \frac{1}{2} + \sqrt{1 + \epsilon^2} = \frac{1}{2} + \sqrt{1 + (0.508)^2} = 4.17$

SAMSKRUTI COLLEGE OF ENGINEERING & TECHNOLOGY
Kondapur(V), Ghatkesar (M), Medchal (D)
III B.TECH II SEM II MID EXAMINATIONS July 2021
Subject Name: DSP Branch: ECE Date: 19-07-2021 Session: A/N

Name: B. Bhargava Hall Ticket No. 19UI5A0403M721

Answer All Questions. All Questions Carry Equal Marks. Time: 20 Min. Marks: 10

Choose the correct alternative:

1. IIR digital filters are which type of systems.
a) Recursive. b) non Recursive
c) both recursive and non recursive d) None of above.
2. For Nth Butterworth filters the expression for ϵ and λ are
a) $\sqrt{10^{0.1 \angle p} - 1}$, $\sqrt{10^{0.1 \angle q} - 1}$ b) $\sqrt{10^{0.1 \angle p} - 1}$, $\sqrt{10^{0.1 \angle q} - 1}$
c) $\sqrt{10^{0.1 \angle p} - 1}$, $\sqrt{10^{0.1 \angle q} - 1}$ d) $\sqrt{10^{0.1 \angle p} - 1}$, $\sqrt{10^{0.1 \angle q} - 1}$
3. The zeros of Butterworth filters exist at...
a) left of the S-plane b) right of the s-plane
c) at unit circle d) None of the mentioned
4. In impulse invariant transformation the digital frequency 'w' for a given analog frequency, ω_m is given by.....
a) $w = \Omega T$ b) $w = \Omega / T$
c) $w = T \Omega$ d) $w = \tan \Omega T$
5. Following condition must be satisfied for linearity for FIR filters?
a) $h(n) = h(m-1-n)$ b) $h(n) = h(m-1+n)$ c) $h(n) = h(m+1-n)$ d) all of these
6. The FIR filters the value of constant phase delay (D) is.....
a) $M-1/2$ b) $M+1/2$
c) $M/2$ d) all of these
7. Which one of the following is odd name?
a) step invariance b) impulse invariance
c) bilinear d) Fourier
8. For the FIR filter of order 13, the group delay is.....
a) 6 b) 13
c) 7 d) 13/2
9. Sampling rate conversion includes.....
a) Down-sampling b) Up-sampling
c) low pass filter d) all of these
10. Limit cycle oscillations can be avoided by.....
a) Reducing step size
b) Non linear transfer characteristic
c) signal scaling
d) all the these

Fill in the Blanks

1. In impulse invariant (bilinear Transformation, the Extra number of poles of s-plane are mapped into the interior of unit circle in z-plane.
2. The type-2 Chebyshev response is also called passband response.
3. The TWO techniques used to transform analog filter to digital filter are bilinear transformations.
4. Poles and zeros both are mapped in Z transformation.
5. FIR filter are all discrete filters.
6. Frequency Window is the best window for FIR filter design.
7. For a linear phase FIR filter, the phase delay and group delay are equal.
8. For linear phase FIR filter of order 11, the phase delay is 11.
9. In dead band amplitudes of spectrum of output signal changes.
10. Signal to noise ratio in FFT algorithm is equal to 3:1.

Cont...2

2.2.3 Quality of student projects (25)

Student Projects:

Every student has to complete two projects during their course. Each student is assigned a Mini (Industry oriented) project at the end of the third year second semester and a Mai year. Students have the freedom to select projects of their choice in consultation with guides. Execution of these projects by themselves goes a long way in developing independent elements of work in the project and finding solutions to problems they face. These projects inculcate creativity and innovative thinking and help students to transform in to life-long

Promotion of Research among Students:

The institution has taken keen interest to promote research culture among students. The steps taken in this regard at the college level are listed below: Research projects for all students are carried out in the campus or industry to make them more research oriented.

Training programs at different levels are organized to introduce upcoming technologies.

Motivation of research paper presentations in National and International Seminars / Conferences / Journals will be given to the students. Personal mentoring and guidance is given by the research supervisor throughout the research process.

These activities initiated by the college for promotion of research, encourage the students to think independently and go for self-learning and to learn their subjects of interest with syllabus.

Procedure for Project Identification:

- Each defined project needs to be from Industry/Research organization/ Government organization/socio-technical issues and according to the need of the hour for solving real time problems
- Project identification is based on workshop training (on the areas such as: VLSI Design, Embedded Systems, Digital Signal Processing, Communication Systems and Image processing) for the students, during 2-1, 2-2 and 3-1 semesters.
- The workshop training is completed by the end of the 3-1 semester followed by the review of the projects by the project Coordinator of the department which comprises of staff and field representatives. The project identification team will meet annually, at least for 2 times.

The duties of the project Identification team will include:

Reviewing and selecting real time projects proposed by evaluation committee.

Reviewing the status of previously selected real time projects.

Project Allocation Methodology

- The project identification team will select real time projects based upon review of the site selection reports like project complexity, time line etc.
- The students are directed to choose the projects from core domains of curriculum such as Aurdino UNO, IoT, Lab View, MATLAB, XILINX etc. and also they are advised to preferably.
- Project has to be carried out by a group of students in order to ensure participation of each student; The group size should be preferably 4 or at least 3 and not more than 5 Formation of project groups should be done such that each group has representation of students with varying academic merit from best to average i.e.,

from GROUP-A, G

For example, in a class of 60 students 20 groups are to be formed with at most four students in each group. One from GROUP-A(bright), GROUP-B(Average), GROUP-C(Below First the list of students in order of their merit is prepared. Students belonging to GROUP-A are considered as group leaders.

Types of Projects

- Comprehensive Case Study.
- Field Oriented Analysis and/or Design Problems.
- Management Oriented Study (such as evaluation, estimation, optimization, planning, and management, etc.) Any other project work, a project guide may wish to allot to the student.

Process for Monitoring and Evaluation

- Mini Project work will be evaluated for 100 marks.
- The evaluation shall be on the basis of review seminar given by each student on the topic of his/her project.
- The Viva Voce shall be conducted by a committee consisting of HOD, Project Supervisor and an External Examiner nominated by the University. This committee will be responsible for evaluating the timely progress of the projects and communicating the progress report to the students

Mini Projects for the A.Y 2021-22

SNO	HNO	NAME OF THE STUDENT	FACULTY NAME	TITLE OF THE PROJECT	POs & PSOs
Batch 1	19U11A0424	G SAI SHANMUKHAPRIYA	Dr.M.SREENIVASULU	FULLY AUTOMATED TRAFFIC LIGHT CONTROLLER SYSTEM FOR A FOUR WAY INTERSECTION USING VERILOG	PO1,PO2,PO3,PO4,PO5,PO6,PO7,P08,PO9,PO10,PO11, PO12,PSO1, PSO2
	19U11A0409	BANDARI YASHWANTH			
	19U11A0430	KANNE SHIVA KUMAR			
	19U11A0401	ADEPU SARIKA			
Batch 2	19U11A0429	KANDUKURI ASHRITHA	Dr.V.SANDEEP KUMAR	SMART HELMET FOR TWO WHEELER	PO1,PO2,PO3,PO4,PO5,PO6,PO7,P08,PO9,PO10,PO11, PO12,PSO1, PSO2
	19U11A0432	KAYALA NANDUVARDHAN			
	19U11A0402	AKULA SAI NIKHIL			
Batch 3	19U11A0422	E MAMATHA	Mrs.K.VANI SREE	AUDIO STEGANOGRAPHY	PO1,PO2,PO3,PO4,PO5,PO6,PO7,P08,PO9,PO10,PO11, PO12,PSO1,
	19U11A0418	DEVARAMPALLY RITHYA			
	19U11A0420	DODLA HIMA BINDU			

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	19U11A0411	BHUKYA PRAVEEN			PSO2
Batch 4	19U11A0423	GANGARAJU SATYA SAI	Mr.R.JAWWHARLAL	IRIS RECOGNITION USING MATLAB	PO1,PO2,PO3,PO4,PO5,PO6,PO7,P08,PO9,PO10,PO11, PO12,PSO1, PSO2
	19U11A0406	ANNOJI INDU			
	19U11A0435	K RITHISH KUMAR			
	17U11A0429	KOLA ARUDNDATHI			
Batch 5	19U11A0417	DESHINI SRUJANA	Mrs. Y.JALAJAKSHI	Detection of blood cells in human blood samples using microscopic images	PO1,PO2,PO3,PO4,PO5,PO6,PO7,P08,PO9,PO10,PO11, PO12,PSO1, PSO2
	19U11A0404	ALLAKURTHI MANJUNATH			
	18U11A0451	DOMAKONDA SANDHYA			
	19U11A0416	DESHAGANI HARIVARDHAN			
Batch 6	19U11A0407	AYYAGARI JASHWANTH	Mrs ANANDITA GOSWAMI	BIRD AND DRONE DETECTION SYSTEM USING YOLOV4 AND YOLOV5	PO1,PO2,PO3,PO4,PO5,PO6,PO7,P08,PO9,PO10,PO11, PO12,PSO1, PSO2
	19U11A0433	KONDA HEMANTH KUMAR			
	19U11A0414	BOYA SRIKAR			
	17U11A0469	MOHAMMAD NEHAL			
Batch 7	19U11A0431	K SAMPATH KUMAR	Mr.D.NARESH	TRAFFIC-SIGN RECOGNITION USING DEEP LEARNING	PO1,PO2,PO3,PO4,PO5,PO6,PO7,P08,PO9,PO10,PO11, PO12,PSO1, PSO2
	19U11A0415	CHENNA SRINIVAS			
	19U11A0427	K RAJGOPAL			
Batch 8	19U11A0408	BAGILI NITHIN KUMAR	Mr ANUP TIWARI	FACE MASK DETECTION SYSTEM USING DEEP LEARNING	PO1,PO2,PO3,PO4,PO5,PO6,PO7,P08,PO9,PO10,PO11, PO12,PSO1, PSO2
	19U11A0434	K ADITYA VENKATA SAI			
	19U11A0438	MALLADI PRAVEEN			
	19U11A0425	GUUVVIGUNTA NANDINI			
Batch 9	19U11A0410	B RAMA CHANDRA REDDY	Mr.CH.RANJITH	SMART SANITIZATION ROBOT USING UVC TECHNOLOGY	PO1,PO2,PO3,PO4,PO5,PO6,PO7,P08,PO9,PO10,PO11, PO12,PSO1, PSO2
	19U11A0403	ALETI VINAY REDDY			
	19U11A0436	LIKKY SRI CHAKRA REDDY			
Batch 10	19U11A0419	DHARAM JOSHNA	Mr.G.VEEERANNA	SMART CROP RECOMMENDATION USING MACHINE LEARNING	PO1,PO2,PO3,PO4,PO5,PO6,PO7,P08,PO9,PO10,PO11, PO12,PSO1, PSO2
	19U11A0412	B ARAVIND CHARY			
	19U11A0405	A PAVAN KUMAR REDDY			
Batch 11	19U11A0428	KALLEM KAVYA	Mr GANESH	LUNG CANCER DETECTION USING IMAGE PROCESSING TECHNIQUES	PO1,PO2,PO3,PO4,PO5,PO6,PO7,P08,PO9,PO10,PO11, PO12,PSO1, PSO2
	19U11A0439	MANDHA NAVEEN REDDY			
	19U11A0413	B SAI KRISHNA REDDY			

SNO	HNO	NAME OF THE STUDENT	FACULTY NAME	TITLE OF THE TOPIC	POs & PSOs
Batch 1	19U11A0461	RACHAKONDA RAMYA	Dr.M.SREENIVASULU	DATA ENCODING TECHNIQUES FOR REDUCING ENERGY CONSUMPTION IN NETWORK ON CHIP USING VERILOG	PO1,PO2,PO3,PO4,PO5,PO6,PO7,PO8,PO9,PO10,PO11,PO12,PSO1, PSO2
	20U15A0401	BETHALA PRAGATHI			
	19U11A0449	NEELAM PRAVEEN			
	19U11A0443	MD.ABDUL MAJEED			

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Batch 2	19U11A0469	SUNKARI MAHESH	Mrs.K.VANI SREE	VLSI IMPLEMENTATION OF BER MEASUREMENT FOR WIRELESS COMMUNICATION SYSTEM	PO1,PO2,PO3, PO4,PO5,PO6, PO7,PO8,PO9, PO10,PO11, PO12,PSO1, PSO2
	20U15A0408	SIDDULA KAVYA			
	19U11A0460	PONNALA SANDEEP			
	19U11A0445	N VAMSHI			
Batch 3	20U15A0409	SURAPUNENI RAMYASRI	Mr.R.JAWWHARLAL	FAKE CURRENCY RECOGNITION SYSTEM USING IMAGE PROCESSING	PO1,PO2,PO3, PO4,PO5,PO6, PO7,PO8,PO9, PO10,PO11, PO12,PSO1, PSO2
	19U11A0453	PANJALA PRAVALLIKA			
	19U11A0448	N. SIRAJUDDOULLAH			
	19U11A0472	UGGI PAVAN			
Batch 4	19U11A0454	P.ROHITH REDDY	Mrs.Y.JALAJAKSHI	PREDICTION OF WATER QUALITY USING MACHINE LEARNING ALGORITHMS	PO1,PO2,PO3, PO4,PO5,PO6, PO7,PO8,PO9, PO10,PO11, PO12,PSO1, PSO2
	19U11A0470	SWETA SUSARLA			
	19U11A0456	PEDDAGOUNI ADARSH			
	19U11A0447	N JAMEMA SARIEN			
Batch 5	19U11A0474	YELLA UDAYKUMAR	Mrs ANANDITA GOSWAMI	vehicle number plate detection using MATLAB	PO1,PO2,PO3, PO4,PO5,PO6, PO7,PO8,PO9, PO10,PO11, PO12,PSO1, PSO2
	19U11A0475	MOHAMMAD FAZIL			
	20U15A0418	KOYYETI HARIKA			
	20U15A0413	CHEBARTHI SAI KUMAR			
Batch 6	20U15A0405	JAKKUKALYAN	Mr V.SHANKAR	PREDICTING HOUSE PRICES WITH MACHINE LEARNING METHODS	PO1,PO2,PO3, PO4,PO5,PO6, PO7,PO8,PO9, PO10,PO11, PO12,PSO1, PSO2
	19U11A0459	POLABOINA BHARGAVI			
	20U15A0414	GADDAM KALYANI			
	19U11A0441	MEKALA SAI KUMAR			
Batch 7	20U15A0407	MADIPADIGE SRAVANI	Mr.D.NARESH	AUTOMATIC CERTIFICATEGENERATION USINGMATLAB	PO1,PO2,PO3, PO4,PO5,PO6, PO7,PO8,PO9, PO10,PO11, PO12,PSO1, PSO2
	20U15A0412	VADLAKONDAMAHAESH			
	19U11A0458	PINNOJI RAMYA			
	19U11A0464	RITESH VISHWA KARMA			
Batch 8	20U15A0410	THALLA PRANAY KUMAR	Mr ANUP TIWARI	COUNTING AVAILABLE PARKING SPACE USING IMAGE PROCESSING	PO1,PO2,PO3, PO4,PO5,PO6, PO7,PO8,PO9, PO10,PO11, PO12,PSO1, PSO2
	19U11A0467	SANA RAJASHEKHAR			
	20U15A0423	PADAMATI SHRAVIKA			
	19U11A0450	NUNELU RAJASREE			
Batch 9	19U11A0463	RAVULA VYSHNAVI	Mr.G.VEERANNA	TO MEASURE THE DIAMETER OF AN OBJECT USING MATLAB	PO1,PO2,PO3, PO4,PO5,PO6, PO7,PO8,PO9, PO10,PO11, PO12,PSO1, PSO2
	20U15A0411	THUMMETI KALPANA			
	20U15A0425	NUKALA RAMA KRISHNA REDDY			
	19U11A0444	M. SAICHARAN REDDY			
Batch 10	20U15A0406	KOTHA SWETHA	Mr.CH.RANJITH	IMAGE DEHAZING USING DARK CHANNEL PRIOR METHOD	PO1,PO2,PO3, PO4,PO5,PO6, PO7,PO8,PO9, PO10,PO11, PO12,PSO1, PSO2
	19U11A0465	RYAKALA HEMAVATHI			
	19U11A0462	RAVULA VAMSHI KRISHNA			

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Batch 11	19U11A0471	TALLA KEERTHANA	Dr.M.SREENIVASULU	IMPLEMENTATION OF VENDING MACHINE THROUGH VERILOG HDL	PO1,PO2,PO3, PO4,PO5,PO6, PO7,PO8,PO9, PO10,PO11, PO12,PSO1, PSO2
	20U15A0416	KASTULA KAVYASRI			
	20U15A0426	RANGA SAIKIRAN			
	19U11A0452	PALA KIRANKUMAR			
Batch 12	19U11A0457	P.LALITH PHANI KUMAR	Mrs.K.VANI SREE	DESIGN AND IMPLEMENTATION OF SUBWAY AUTOMATIC TICKETING SYSTEM USING VERILOG HDL	PO1,PO2,PO3, PO4,PO5,PO6, PO7,PO8,PO9, PO10,PO11, PO12,PSO1, PSO2
	20U15A0415	JULAKANTI SARIKA			
	20U15A0402	BYROJU POOJA			
	19U11A0466	S. BHANUSHANKAR			
Batch 13	20U15A0424	PEDDI SHIVANI	Mr.R.JAWWHARLAL	DATA ENCRYPTION AND SECURITY USING IMAGE PROCESSING	PO1,PO2,PO3, PO4,PO5,PO6, PO7,PO8,PO9, PO10,PO11, PO12,PSO1, PSO2
	19U11A0473	VORUGANTI PRIYANKA			
	20U15A0420	MEDIMALA VENKATA SAI			
	20U15A0427	SAIRI KRISHNA			
Batch 14	19U11A0451	PAILLA SAI KIRAN REDDY	Mrs ANANDITA GOSWAMI	4 BIT UP DOWN COUNTER USING VERILOG	PO1,PO2,PO3, PO4,PO5,PO6, PO7,PO8,PO9, PO10,PO11, PO12,PSO1, PSO2
	20U15A0422	M.SANDEEP KUMAR			
	19U11A0446	N. SHIVASHANKAR REDDY			
	19U11A0455	PASHUMEKALA RAMYA			
Batch 15	20U15A0421	MOHAMMAD ABDUL BOHADDIN	Mr ANUP TIWARI	DESIGN OF SRAM ARCHITECTURE USING VERILOG	PO1,PO2,PO3, PO4,PO5,PO6, PO7,PO8,PO9, PO10,PO11, PO12,PSO1, PSO2
	20U15A0417	KORUTOORI SANDHYA			
	20U15A0419	MATAPATHI KAVYA			
	20U15A0429	THALLAPELLI SWATHI			

Best Mini Projects for the A.Y 2021-22

SNO	HNO	NAME OF THE STUDENT	FACULTY NAME	TITLE OF THE TOPIC	POs & PSOs
Batch 1	19U11A0461	RACHAKONDA RAMYA	Dr.M.SREENIVASULU	DATA ENCODING TECHNIQUES FOR REDUCING ENERGY CONSUMPTION IN NETWORK ON CHIP USING VERILOG	PO1,PO2,PO3, PO4,PO5,PO6, PO7,PO8,PO9, PO10,PO11, PO12,PSO1, PSO2
	20U15A0401	BETHALA PRAGATHI			
	19U11A0449	NEELAM PRAVEEN			
	19U11A0443	MD.ABDUL MAJEED			
Batch 2	19U11A0469	SUNKARI MAHESH	Mrs.K.VANI SREE	VLSI IMPLEMENTATION OF BER MEASUREMENT FOR WIRELESS COMMUNICATION SYSTEM	PO1,PO2,PO3, PO4,PO5,PO6, PO7,PO8,PO9, PO10,PO11, PO12,PSO1, PSO2
	20U15A0408	SIDDULA KAVYA			
	19U11A0460	PONNALA SANDEEP			
	19U11A0445	N VAMSHI			
Batch 3	20U15A0409	SURAPUNENI RAMYASRI	Mr.R.JAWWHARLAL	FAKE CURRENCY RECOGNITION SYSTEM USING IMAGE PROCESSING	PO1,PO2,PO3, PO4,PO5,PO6, PO7,PO8,PO9, PO10,PO11, PO12,PSO1, PSO2
	19U11A0453	PANJALA PRAVALLIKA			
	19U11A0448	N. SIRAJUDDOULLAH			
	19U11A0472	UGGI PAVAN			
Batch 4	19U11A0454	P.ROHITH REDDY	Mrs. Y.JALAJAKSHI	PREDICTION OF WATER QUALITY USING MACHINE LEARNING	PO1,PO2,PO3, PO4,PO5,PO6,
	19U11A0470	SWETA SUSARLA			

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	19U11A0456	PEDDAGOUNI ADARSH		ALGORITHMS	PO7,PO8,PO9, PO10,PO11, PO12,PSO1, PSO2
	19U11A0447	N JAMEMA SARIEN			
Batch 5	19U11A0474	YELLA UDAYKUMAR	Mrs ANANDITA GOSWAMI	vehicle number plate detection using MATLAB	PO1,PO2,PO3, PO4,PO5,PO6, PO7,PO8,PO9, PO10,PO11, PO12,PSO1, PSO2
	19U11A0475	MOHAMMAD FAZIL			
	20U15A0418	KOYYETI HARIKA			
	20U15A0413	CHEBARTHI SAI KUMAR			
Batch 6	20U15A0405	JAKKUKALYAN	Mr V.SHANKAR	PREDICTING HOUSE PRICES WITH MACHINE LEARNING METHODS	PO1,PO2,PO3, PO4,PO5,PO6, PO7,PO8,PO9, PO10,PO11, PO12,PSO1, PSO2
	19U11A0459	POLABOINA BHARGAVI			
	20U15A0414	GADDAM KALYANI			
	19U11A0441	MEKALA SAI KUMAR			
Batch 7	20U15A0407	MADIPADIGE SRAVANI	Mr.D.NARESH	AUTOMATIC CERTIFICATEGENERATION USINGMATLAB	PO1,PO2,PO3, PO4,PO5,PO6, PO7,PO8,PO9, PO10,PO11, PO12,PSO1, PSO2
	20U15A0412	VADLAKONDAMAHESH			
	19U11A0458	PINNOJI RAMYA			
	19U11A0464	RITESH VISHWA KARMA			
Batch 8	20U15A0410	THALLA PRANAY KUMAR	Mr ANUP TIWARI	COUNTING AVAILABLE PARKING SPACE USING IMAGE PROCESSING	PO1,PO2,PO3, PO4,PO5,PO6, PO7,PO8,PO9, PO10,PO11, PO12,PSO1, PSO2
	19U11A0467	SANA RAJASHEKHAR			
	20U15A0423	PADAMATI SHRAVIKA			
	19U11A0450	NUNELU RAJASREE			
Batch 11	19U11A0471	TALLA KEERTHANA	Dr.M.SREENIVASULU	IMPLEMENTATIONOFVENDING MACHINE THROUGH VERILOG HDL	PO1,PO2,PO3, PO4,PO5,PO6, PO7,PO8,PO9, PO10,PO11, PO12,PSO1, PSO2
	20U15A0416	KASTULA KAVYASRI			
	20U15A0426	RANGA SAIKIRAN			
	19U11A0452	PALA KIRANKUMAR			
Batch 12	19U11A0457	P.LALITH PHANI	Mrs.K.VANI SREE	DESIGN AND IMPLEMENTATION OF SUBWAY AUTOMATIC TICKETING SYSTEM USING VERILOG HDL	PO1,PO2,PO3, PO4,PO5,PO6, PO7,PO8,PO9, PO10,PO11, PO12,PSO1, PSO2
	20U15A0415	JULAKANTI SARIKA			
	20U15A0402	BYROJU POOJA			
	19U11A0466	S. BHANUSHANKAR			
Batch 13	20U15A0424	PEDDI SHIVANI	Mr.R.JAWWHARLAL	DATA ENCRYPTION AND SECURITY USING IMAGE PROCESSING	PO1,PO2,PO3, PO4,PO5,PO6, PO7,PO8,PO9, PO10,PO11, PO12,PSO1, PSO2
	19U11A0473	VORUGANTI PRIYANKA			
	20U15A0420	MEDIMA VENKATA SAI			
	20U15A0427	SAIRI KRISHNA			

The Final Project Thesis Evaluated Through:

- Seminar (midway through semester) students share ideas about own projects (15%).
- Seminar (towards end of semester)

- Presentation of result (15%) and
- demonstration (20%). Formal Report (50%)

Process to Assess Individual and Team Performance

- The internal evaluation shall be made by the departmental committee, on the basis of two review seminars given by each student on the topic of his/her project.
- In case it is observed that any student/group of students is not performing well, special care is taken to improve their performance by means of counseling.

Quality of Completed Projects/Working Prototypes:

Quality Measuring Factors:

F1: Presentation Standards.

F2: Final Report (Documentation).

F3: Impact of project on Environment and sustainability.

F4: Impact of project on Human Safety and security.

F5: Impact of project on ethical principles and commitment to professional ethic and responsibilities and norms of the engineering practice.

F6: Type of the project: one from the following:

- Product
- Research
- Application

Process for Monitoring and Evaluation

Project work will be evaluated for 100 marks. Out of that 25 marks are for stage 1 in IV year I semester and 75 marks for stage 2 in IV year II semester. The evaluation shall be on the basis of review seminars given by each student on the topic of his/her project.

The Viva Voce shall be conducted by a committee consisting of HOD, Project Supervisor and an External Examiner nominated by the University. This committee will be responsible for evaluating the timely progress of the projects and communicating the progress report to the students.

Major Projects for Academic Year (2021-2022)

SNO	HNO	NAME OF THE STUDENT	FACULTY NAME	TITLE OF THE PROJECT	SIGNATURE
Batch 1	18U11A0435	PAILLA SAI PRIYA	Dr.M.SREENIVASULU	Multi purpose security system in automobile industry	PO1,PO2,PO3,P O4,PO5,PO6,PO 7,PO8,PO9,PO1 0,PO11, PO12,PSO1, PSO2
	18L75A0410	Y.NAVEEN REDDY			
	18U11A0427	MACHA MUKTHEESHWAR			
	18U11A0426	M GRISHMA			
Batch 2	18U11A0430	MOOLAMPALLY ANANYA	Dr.V.SANDEEP KUMAR	Web Automation Using Node MCU	PO1,PO2,PO3,P O4,PO5,PO6,PO 7,PO8,PO9,PO1 0,PO11, PO12,PSO1, PSO2
	18U11A0408	BENDABEMBLI BHAVESH REDDY			
	18U11A0440	SWARNALATHA UPPARI			
	17U11A0480	YENNETI JASWINI			
Batch 3	18U11A0436	PULIGILLA ANUSHA	Mrs.K.VANI SREE	IOT Based smart notice board	PO1,PO2,PO3,P O4,PO5,PO6,PO 7,PO8,PO9,PO1 0,PO11, PO12,PSO1, PSO2
	18U11A0432	P V S BENI RAVI KIRAN			
	17U11A0452	TARAI AKSHAY KUMAR			
	18U11A0402	APOORV MANE			
Batch 4	18U11A0412	CHINTAPARTI RIHARIKA	Mrs.Y.JALAJAKSHI	Intelligent mobile based patient monitoring system	PO1,PO2,PO3,P O4,PO5,PO6,PO 7,PO8,PO9,PO1 0,PO11, PO12,PSO1, PSO2
	18U11A0425	KORICHERLA SAI KIRAN			
	18U11A0442	VEERAMALLI AKHILA			
	18U11A0410	BOREDDY LAKSHMIDEVI			
Batch 5	18U11A0401	ALIMA SAI SRUTHI	Mrs. N.LATHA MADHURI	Design of advanced smart medicine box for old people with voice alert using arduino	PO1,PO2,PO3,P O4,PO5,PO6,PO 7,PO8,PO9,PO1 0,PO11, PO12,PSO1, PSO2
	17U11A0412	BATHINI THRISHALI			
	17U11A0421	CHERLA SAI MANISH			
	18C21A0419	GUTTULA SIREESHA DEVI			
Batch 6	18U11A0404	BANDLA SAI SHIRISHA	Mr.D.NARESH	Vehicle theft intimation over sms and remote control of its	PO1,PO2,PO3,P O4,PO5,PO6,PO
	18U11A0413	DASARI ARAVIND			
	18U11A0424	KONDA SHIVANI			

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	18U11A0417	ENUGU SANDEEP REDDY		engine	7,PO8,PO9,PO10,PO11,PO12,PSO1,PSO2
Batch 7	18U11A0411	CHENNADI SATHWIK	Mr.CH.RANJITH	Automatic garbage dumping rail	PO1,PO2,PO3,PO4,PO5,PO6,PO7,PO8,PO9,PO10,PO11,PO12,PSO1,PSO2
	18U11A0421	GURRAM ANUSHA			
	18L75A0405	BANOTH SURESH			
	17U11A0414	CHALLAGUNDLA NEHA			
Batch 8	18U11A0414	DUDIPALA MADHUMITHA	Miss.R.ANUJA	Women safety device with GPS tracking and alerts	PO1,PO2,PO3,PO4,PO5,PO6,PO7,PO8,PO9,PO10,PO11,PO12,PSO1,PSO2
	18U11A0403	AUSTIN GEORGE			
	18U11A0444	YENNAMANENI ABHINAYA			
	18U11A0409	BODAPOTHULA ROHINI			
Batch 9	18U11A0420	GORLA GOWRI PRIYA	Mrs. K.LEELA SANTHOSHI	Smart sanitization robot using uvc technology with microwave sensor	PO1,PO2,PO3,PO4,PO5,PO6,PO7,PO8,PO9,PO10,PO11,PO12,PSO1,PSO2
	18L75A0402	P.SAI VAMSHI			
	18U11A0418	GAJAM SANTHOSHKUMAR			
	18U11A0450	DANTURI NISHITHA			
Batch 10	18U11A0429	MANNE SHISHIR SAI	Mrs. G.MOUNICA	Vehicle movement sensed street light with daytime-autoff features	PO1,PO2,PO3,PO4,PO5,PO6,PO7,PO8,PO9,PO10,PO11,PO12,PSO1,PSO2
	18U11A0449	G VAISHNAVI			
	17U11A0462	GADDAM SHRUVANA SHRINIVAS			
Batch 11	18U11A0433	P VAISHNAVI	Mr.G.VEERANNA	IOT based weather monitoring sytem	PO1,PO2,PO3,PO4,PO5,PO6,PO7,PO8,PO9,PO10,PO11,PO12,PSO1,PSO2
	18U11A0431	MOSALI SHASHIKIRAN REDDY			
	17U11A0430	KURAGAYALA YOGESHWAR KUMAR			
	18U11A0419	GEDALA DURGA PRASAD			
Batch 12	18U11A0416	DYAPA THARUN	Miss K.PADMALEELA	Drowsiness detection system	PO1,PO2,PO3,P
	18U11A0437	PUSKURI SAI CHARAN			

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	18U11A0441	TUMMALA VENKAT REDDY		using Eye Aspect Ratio Technique	O4,PO5,PO6,PO7,PO8,PO9,PO10,PO11,PO12,PSO1,PSO2
	18U11A0434	PAGADALA RAGHU VARMA			
Batch 13	18U11A0428	MANIKONDA SRI CHARAN	Dr.V.SANDEEP KUMAR	DTMF based water pump controller	PO1,PO2,PO3,PO4,PO5,PO6,PO7,PO8,PO9,PO10,PO11,PO12,PSO1,PSO2
	18U11A0415	DUSSA SRI HARSHAVARDHAN			
	18U11A0422	HALAVATH BHASKAR			
	18U11A0445	A G S S S SARAVNI			
Batch 14	18U11A0439	SURA VISHNU	Mrs.K.VANI SREE	Moving object detection using ESP32 module	PO1,PO2,PO3,PO4,PO5,PO6,PO7,PO8,PO9,PO10,PO11,PO12,PSO1,PSO2
	18C21A0421	MALUGU NITHIN KUMAR			
	18U11A0448	BOMMAKANTI VENKATA SHANMUKHA VAMSI KRISHNA			
	18U11A0438	SRIRAMULA JYOTHIRMAI			
Batch 15	18C21A0410	MUTTAMSETTY SHIREESHA	Mrs.Y.JALAJAKSHI	Density Based Traffic Signal System using Microcontroller	PO1,PO2,PO3,PO4,PO5,PO6,PO7,PO8,PO9,PO10,PO11,PO12,PSO1,PSO2
	18L75A0409	CH. ABHISHEK			
	18U11A0407	BELIDE VAMSHI RAJ			
	18U11A0423	KOMPELLE SAHANA			
Batch 16	18U11A0406	BATTULA VISHNU VARDHAN	Dr. M.SREENIVASULU	Fire fighting robot	PO1,PO2,PO3,PO4,PO5,PO6,PO7,PO8,PO9,PO10,PO11,PO12,PSO1,PSO2
	18U11A0405	BANOTHU ARCHANA			
	18C21A0424	NARSING SIRI PALLAVI			
	18U11A0447	B NEHA			
Batch 17	18U11A0457	K DEEKSHA	Dr. M.SREENIVASULU	Smart energy meter using GSM	PO1,PO2,PO3,PO4,PO5,PO6,PO7,PO8,PO9,PO10,PO11,PO12,PSO1,PSO2
	18U11A0474	SIRIKONDA PAVAN			
	18U11A0480	VANAM SRIKAR			
	18U11A0487	MD.SHUYAEB KHAN			

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Batch 18	18U11A0464	MOHAMMAD AFREEN	Dr.V.SANDEEP KUMAR	IOT based smart multi applications surveillance robert	PO1,PO2,PO3,P04,PO5,PO6,PO7,PO8,PO9,PO10,PO11,PO12,PSO1,PSO2
	19U15A0410	YASOJU NIKHIL			
	19U15A0414	HAZARI SAI RAHUL			
	18U11A0454	GURAJAPU SAHITI			
Batch 19	18U11A0467	P KALPANA	Mrs.K.VANI SREE	Arduino based school bell system	PO1,PO2,PO3,P04,PO5,PO6,PO7,PO8,PO9,PO10,PO11,PO12,PSO1,PSO2
	18U11A0475	SRIRANGAM THARUN KUMAR			
	19U15A0409	SEETHA BHARATH KUMAR			
	19U15A0404	GOMASA RAJESH			
Batch 20	18U11A0477	THUNIKIPATI TEJASWINI	Mrs.Y.JALAJAKSHI	Ultrasonic blind stick with GPS tracking	PO1,PO2,PO3,P04,PO5,PO6,PO7,PO8,PO9,PO10,PO11,PO12,PSO1,PSO2
	18U11A0473	SHAIK MULLA MEERA HUSSAIN			
	18U11A0479	VALLURI SESA PRANEETH			
	18U11A0470	RAYABARAPU MOUNIKA			
Batch 21	18U11A0483	CHEERKA SHIVA PRASAD REDDY	Mrs N.LATHA MADHURI	Smart farming using IOT	PO1,PO2,PO3,P04,PO5,PO6,PO7,PO8,PO9,PO10,PO11,PO12,PSO1,PSO2
	19U15A0401	AYYAGALLA PAVITHRA			
	18U11A0481	ARIFUR RAHMAN MOLICK			
	18U11A0469	BUKKA SRI CHANDANA			
Batch 22	19U15A0403	BHEEMAGONI BHARGAVI	Mr.D.NARESH	Smart solar tracking system for optimal power generation	PO1,PO2,PO3,P04,PO5,PO6,PO7,PO8,PO9,PO10,PO11,PO12,PSO1,PSO2
	19U15A0416	MANTRI LAXMI TEJA			
	18U11A0456	JONATHAN ABHISHEK SURVEPALI			
	18U11A0455	HOSEKER SAI CHANDRASEKAR			
Batch 23	19U15A0406	MUDAM SUDEEP	Mr.CH.RANJITH	A smart helmet for riders with accident detection system	PO1,PO2,PO3,P04,PO5,PO6,PO7,PO8,PO9,PO10,PO11,PO12,PSO1,PSO2
	19U15A0417	MOOLA RAJESHWARI			
	18U11A0491	VESAPOGU LEVIN			
	18U11A0466	NALACHERVU SRIHARI			

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Batch 24	19U15A0412	GUDUGUNTLA SUSHMITHA	Miss.R.ANUJA	Touch sensor and voice recognition based security system in car	PO1,PO2,PO3,P04,P05,P06,P07,P08,P09,P010,P011,PO12,PSO1,PSO2
	19U15A0420	SOMESETTY KALYANI			
	18U11A0460	KALLEM KRISHNA SANJAY			
	18U11A0468	P S ABHISHEK			
Batch 25	19U15A0402	BARLAPATI AMULYA	Miss K.PADMALEELA	IOT based school children transportation safety system	PO1,PO2,PO3,P04,P05,P06,P07,P08,P09,P010,P011,PO12,PSO1,PSO2
	19U15A0405	K PRIYANKA			
	19U15A0408	POKURI RAMA KRISHNA			
	18U11A0465	MOHAMMAD FAZAL			
Batch 26	18U11A0463	MAJI RAKESH	Mrs. G.MOUNICA	IOT based wireless sensor network for air pollution monitoring	PO1,PO2,PO3,P04,P05,P06,P07,P08,P09,P010,P011,PO12,PSO1,PSO2
	19U15A0407	NANDIPATA ARAVIND			
	18U11A0488	MEKALA BHARGAVI			
	19U15A0419	REBBA RAMA KRISHNA			
	18U11A0472	SHAIK MASTHAN VALI			
Batch 27	18U11A0459	KAKOLLU SRIKANTH	Mr.G.VEERANNA	wireless rash driving detection using ir sensors	PO1,PO2,PO3,P04,P05,P06,P07,P08,P09,P010,P011,PO12,PSO1,PSO2
	19U15A0421	YERRAGUNTLA SANDHYA			
	18U11A0471	RAYANABOINA RAKESH			
	19U15A0418	RACHA MANASWINI			
Batch 28	18U11A0478	V AMRUTH RAJ KUMAR	Mrs. K.LEELA SANTHOSHI	underground cable fault detection	PO1,PO2,PO3,P04,P05,P06,P07,P08,P09,P010,P011,PO12,PSO1,PSO2
	19U15A0415	KODEPAKA SANJAY KUMAR			
	19U15A0411	ARYA SHIVA SAI PRASAD			
	19U15A0413	GUNDIMEDA SRI GANESH			

Best Major Projects for Academic Year (2021-2022)

Batch NO	HNO	NAME OF THE STUDENT	FACULTY NAME	TITLE OF THE PROJECT	SIGNATURE
Batch 14	18U11A0439	SURA VISHNU	Mrs.K.VANI SREE	Moving object detection using ESP32 module	PO1,PO2,PO3, PO4,PO5,PO6, PO7,PO8,PO9, PO10,PO11, PO12,PSO1, PSO2
	18C21A0421	MALUGU NITHIN KUMAR			
	18U11A0448	BOMMAKANTI VENKATA SHANMUKHA VAMSI KRISHNA			
	18U11A0438	SRIRAMULA JYOTHIRMAI			
Batch 15	18C21A0410	MUTTAMSETTY SHIREESHA	Mrs.Y.JALAJAKSHI	Density Based Traffic Signal System using Microcontroller	PO1,PO2,PO3, PO4,PO5,PO6, PO7,PO8,PO9, PO10,PO11, PO12,PSO1, PSO2
	18L75A0409	CH. ABHISHEK			
	18U11A0407	BELIDE VAMSHI RAJ			
	18U11A0423	KOMPELLE SAHANA			
Batch 16	18U11A0406	BATTULA VISHNU VARDHAN	Dr. .SREENIVASULU	Fire fighting robot	PO1,PO2,PO3, PO4,PO5,PO6, PO7,PO8,PO9, PO10,PO11, PO12,PSO1, PSO2
	18U11A0405	BANOTHU ARCHANA			
	18C21A0424	NARSING SIRI PALLAVI			
	18U11A0447	B NEHA			
Batch 19	18U11A0467	P KALPANA	Mrs.K.VANI SREE	Arduino based school bell system	PO1,PO2,PO3, PO4,PO5,PO6, PO7,PO8,PO9, PO10,PO11, PO12,PSO1, PSO2
	18U11A0475	SRIRANGAM THARUN KUMAR			
	19U15A0409	SEETHA BHARATH KUMAR			
	19U15A0404	GOMASA RAJESH			
Batch 20	18U11A0477	THUNIKIPATI TEJASWINI	Mrs.Y.JALAJAKSHI	Ultrasonic blind stick with GPS tracking	PO1,PO2,PO3, PO4,PO5,PO6, PO7,PO8,PO9, PO10,PO11, PO12,PSO1, PSO2
	18U11A0473	SHAIK MULLA MEERA HUSSAIN			
	18U11A0479	VALLURI SESA PRANEETH			
	18U11A0470	RAYABARAPU MOUNIKA			
	18U11A0469	BUKKA SRI CHANDANA			
	18U11A0455	HOSEKER SAI CHANDRASEKAR			
Batch 23	19U15A0406	MUDAM SUDEEP	Mr.CH.RANJITH	A smart helmet for riders with accident detection system	PO1,PO2,PO3, PO4,PO5,PO6, PO7,PO8,PO9, PO10,PO11, PO12,PSO1, PSO2
	19U15A0417	MOOLA RAJESHWARI			
	18U11A0491	VESAPOGU LEVIN			
	18U11A0466	NALACHERVU SRIHARI			

2.2.4 Initiative related to industry interaction (15)**Industry Supported Laboratories:**

The companies that have interfaced with Electronics and Communication Engineering department interact with the students, familiarizing them about their latest tools and technologies. They also provide the information about the future opportunities for students in the companies. These interactions make the students aware of the current trends of the industry and provide them with exposure to the job opportunities. The department also provides the students with interaction and certification opportunities with Infosys, TCS etc.

The management of Samskruti College of Engineering and Technology has entered into a Memorandum of Understanding (MOU) with several companies.

Incubation Center:

SCET, one of the most forwarding thinking and innovative educational institutions, has start an incubation center in association with the TLC group to enable its students get firsthand experience in entrepreneurship, promote innovation driven activities at the institute and provide comprehensive and integrated range of support including space, mentoring, training programs, networking and an array of other benefits.

To bring this innovative Incubation Center for students, SCET is partnering with TLC Group, an organization committed deeply to help students reach their highest aspirations. The TLC group management team has years of experience working in some of the largest and most successful global organizations.

Memorandum of Understandings:

To strengthen interaction with industries and to keep our students updated with the latest trends in Electronics and Communication Engineering, the Department has entered into an agreement with the following companies.

MOUs A.Y. 2022-2023

S.No	Name of the Company	Year of Signing	Duration	Name of the Activity
1	TLC	16/11/2022	1 year	Mini/Major project
2	TLC Group	16/08/2022	1 year	Internship
3	Global e-Smart Technologies	25/08/2022	1 year	Internship

MOUs A.Y. 2021-2022

S.No	Name of the institution/ industry/ corporate house with whom MoU is signed	Year of signing MoU	Duration	Name of the Activity
1	TLC	16/06/2022	1year	internship
2	Global e-Smart Technologies	23/08/2021	1year	Internship
3	Integral Electronics	22/09/2021	1year	Internship
4	I-TECH Systems	12/08/2021	1year	Internship

MOUs A.Y. 2020-2021

S.No	Name of the institution/ industry/ corporate house with whom MoU is signed	Year of signing MoU	Duration	Name of the Activity
1	TLC	2021	1 year	Internship
2	Pantech E Learning Pvt Ltd	2020	1 year	Internship
3	Smart Selection Solutions	2020	1 year	Internship,on-job- training
4	Mech Turbo	2020	1 year	on-job-training
5	TLC Group	2020	1 year	Internship
6	I-TECH Systems	2020	1 year	Internship

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7	Integral Electronics	2020	1 year	Internship
8	Smart Innovations pvt Ltd	2020	1 year	Internship
9	Global E-Smart Technologies	2020	1 year	Internship
10	Millienium Technologies	2020	1year	Intership

MOUs A.Y. 2019-2020

S.No	Name of the institution/ industry/ corporate house with whom MoU is signed	Year of signing MoU	Duration	Name of the Activity
1	TLC	2019	3years	Project and Incubation Centre
2	Pantech E Learning Pvt Ltd	2019	1year	Internship
3	Smart Selection Solutions	2019	1year	Intership and on job Training
4	Mech Turbo	2019	1year	Intership
5	TLC	2019	1year	Intership
6	Millienium Technologies	2019	1year	Intership
7	Global e-Smart Technologies	2019	1year	Internship
8	Smart Innovations pvt Ltd	2019	1year	Intership
9	Nayak Electronics	2019	1year	Internship
10	Integral Electronics	2019	1year	Internship
11	I-TECH Systems	2019	1year	Internship
12	TLC group	2019	1year	Internship

MOUs A.Y. 2018-2019

S.No	Name of the institution/ industry/ corporate house with whom MoU is signed	Year of signing MoU	Duration	Name of the Activity
1	TLC	2018	1 year	Project Work, Internship
2	Integral Electronics	2018	1 year	Internship
3	Nayak Electronics	2018	1 year	Internship
4	Pantech E Learning Pvt Ltd	2018	1 year	Internship
5	Global E-Smart Technologies	2018	1 year	Internship
6	Smart Selection Solutions	2018	1 year	Internship, On- job- training
7	Mech Turbo	2018	1 year	Internship, On- job- training
8	Smart Innovations pvt Ltd	2018	1 year	
9	Mech Turbo	2017	1 year	Internship, On

2.2.5 Initiative related to industry internship/summer training (15)**Industrial/Internship/Summer Training**

The Students have attended an Internship/Summer Training program at Artificial Penetration Software Solutions Pvt Ltd., AVR Research and Development Pvt. Ltd., Pantech E-Learning Pvt. Ltd., Data Point, Millennium InfoTech Pvt., Ltd., etc, where they have gained knowledge in designing and developing software product, that was a hands on experience. After the entire training the students have developed a real time project.

Internship A.Y. 2022-2023

S.No	H.T.NO	NAME	COMPANY	DURATION
1	20U11A0401	ALLA HEMANTHKUMAR	RADIANT APPLIANCES & ELECTRONICS PVT.LTD.	13 TO 17 OCT 2022
2	20U11A0402	BARLA JYOTNA PRIYA	RADIANT APPLIANCES & ELECTRONICS PVT.LTD.	13 TO 17 OCT 2022
3	20U11A0403	BHUKYA GOPI	RADIANT APPLIANCES & ELECTRONICS PVT.LTD.	13 TO 17 OCT 2022
4	20U11A0404	BINGI SPANDANA	RADIANT APPLIANCES & ELECTRONICS PVT.LTD.	13 TO 17 OCT 2022
6	20U11A0406	BOLLAM KALYAN KUMAR	RADIANT APPLIANCES & ELECTRONICS PVT.LTD.	13 TO 17 OCT 2022
7	20U11A0407	BUTTA KALYAN	RADIANT APPLIANCES & ELECTRONICS PVT.LTD.	13 TO 17 OCT 2022
8	20U11A0408	CHATHIRI VAMSHI SAGAR	RADIANT APPLIANCES & ELECTRONICS PVT.LTD.	13 TO 17 OCT 2022
10	20U11A0410	DAYALA SIRISHA	RADIANT APPLIANCES & ELECTRONICS PVT.LTD.	13 TO 17 OCT 2022
11	20U11A0411	DONTHAMALLA SHIVA TEJA	RADIANT APPLIANCES & ELECTRONICS PVT.LTD.	13 TO 17 OCT 2022
13	20U11A0413	GAMPALAPELLY NITHIN	RADIANT APPLIANCES & ELECTRONICS PVT.LTD.	13 TO 17 OCT 2022
14	20U11A0414	GILLA NAGARAJU	RADIANT APPLIANCES & ELECTRONICS PVT.LTD.	13 TO 17 OCT 2022
17	20U11A0417	GUTHI KANKARAJU	RADIANT APPLIANCES & ELECTRONICS PVT.LTD.	13 TO 17 OCT 2022
19	20U11A0419	KADARI CHAITANYA	RADIANT APPLIANCES & ELECTRONICS PVT.LTD.	13 TO 17 OCT 2022
20	20U11A0420	KAMUTALA HEMA	RADIANT APPLIANCES & ELECTRONICS PVT.LTD.	13 TO 17 OCT 2022
21	20U11A0421	K RUCHIT	RADIANT APPLIANCES & ELECTRONICS PVT.LTD.	13 TO 17 OCT 2022
22	20U11A0422	K SAMBASHIVARAO	RADIANT APPLIANCES & ELECTRONICS PVT.LTD.	13 TO 17 OCT 2022
23	20U11A0423	LALAJI PRANAV	RADIANT APPLIANCES & ELECTRONICS PVT.LTD.	13 TO 17 OCT 2022
24	20U11A0424	M MANEESH REDDY	RADIANT APPLIANCES & ELECTRONICS PVT.LTD.	13 TO 17 OCT 2022
27	20U11A0427	MORA ABHILASH	RADIANT APPLIANCES & ELECTRONICS PVT.LTD.	13 TO 17 OCT 2022
29	20U11A0429	MURABOINA KALYANI	RADIANT APPLIANCES & ELECTRONICS PVT.LTD.	13 TO 17 OCT 2022
31	20U11A0431	PASUNURI SHASHIKANTH	RADIANT APPLIANCES & ELECTRONICS PVT.LTD.	13 TO 17 OCT 2022
32	20U11A0432	PUTTA PRATHEEK	RADIANT APPLIANCES &	13 TO 17 OCT

		RAJ	ELECTRONICS PVT.LTD.	2022
36	20U11A0436	SHYAMALA AKSHAI	RADIANT APPLIANCES & ELECTRONICS PVT.LTD.	13 TO 17 OCT 2022
37	20U11A0437	S PHANIDHAR REDDY	RADIANT APPLIANCES & ELECTRONICS PVT.LTD.	13 TO 17 OCT 2022
39	20U11A0439	SUNNAPUWAR NARESH	RADIANT APPLIANCES & ELECTRONICS PVT.LTD.	13 TO 17 OCT 2022
41	20U11A0441	THUNGAR RAJESH	RADIANT APPLIANCES & ELECTRONICS PVT.LTD.	13 TO 17 OCT 2022
42	20U11A0442	AERUVA VAISHNAVI	RADIANT APPLIANCES & ELECTRONICS PVT.LTD.	13 TO 17 OCT 2022
46	20U11A0446	GATTULA MAHESH	RADIANT APPLIANCES & ELECTRONICS PVT.LTD.	13 TO 17 OCT 2022
48	20U11A0448	KANCHA GANESH	RADIANT APPLIANCES & ELECTRONICS PVT.LTD.	13 TO 17 OCT 2022
49	20U11A0449	KASSA BALA MANIKANTA	RADIANT APPLIANCES & ELECTRONICS PVT.LTD.	13 TO 17 OCT 2022
55	20U11A0455	PALSAM UDAY	RADIANT APPLIANCES & ELECTRONICS PVT.LTD.	13 TO 17 OCT 2022
58	20U11A0458	S SAI BABA GOUD	RADIANT APPLIANCES & ELECTRONICS PVT.LTD.	13 TO 17 OCT 2022
59	20U11A0459	UDARI NIVAS CHANDU	RADIANT APPLIANCES & ELECTRONICS PVT.LTD.	13 TO 17 OCT 2022
61	20U11A0461	MATTA VAMSHI KRISHNA	RADIANT APPLIANCES & ELECTRONICS PVT.LTD.	13 TO 17 OCT 2022
63	20U11A0463	PANJALA SHASHANK GOUD	RADIANT APPLIANCES & ELECTRONICS PVT.LTD.	13 TO 17 OCT 2022

Internship A.Y. 2021-22

S.No	H.T.No	NAME	COMPANY	DURATION
1	18U11A0478	V Amruth Raj Kumar	Integral Electronics	45 Days
2	18U11A0477	Thunikipati Tejaswini		
3	19U15A0417	Moola Rajeshwari		
4	18U11A0433	P Vaishnavi	I-Tech Systems	45 Days
5	18U11A0437	Puskuri Sai Charan		
6	18U11A0477	Thunikipati Tejaswini		
7	19U15A0402	Barlapati Amulya	Pantech e-Learning	30 Days
8	18U11A0491	Vesapogu Levin		
9	18U11A0420	Gorla Gowri Priya		

Internship A.Y. 2020-21

S.No	H.T.No	ORGANIZATION NAME	DURATION	PROJECT NAME	LOCATION
1	17U11A0412	TLC Group	30Days	IoT	HYDERABAD
2	19U15A0425				
3	19U11A0420				
4	18U11A0444	TLC	30days	Embedded System	HYDERABAD
5	18U11A0434				
6	18U11A0413				
7	18U11A0478	Integral Electronics	45 Days	PCB Design	HYDERABAD
8	18U11A0477				
9	19U15A0417				
10	18U11A0433	I-Tech Systems	45 Days	Circuits Design	HYDERABAD
11	18U11A0477				
12	18U11A0437				
13	18U11A0491	Pantech e- Learning	30 Days	Wireless Black Box Using MEMs Accelerometer for Accidental Monitoring of Vehicles	HYDERABAD
14	19U15A0402				
15	18U11A0420				

Internship A.Y. 2019-20

S.No	H.T.No	ORGANIZATION NAME	DURATION	PROJECTNAME	LOCATION
1	17U15A0416	Millennium	45Days	DSP/DIP in MATLAB	HYDERABAD
2	18U15A0401				
3	18U15A0402	Globel e-Smart Technologies	45 Days	DSP/DIP in MATLAB	HYDERABAD
	17U15A0416				
	18U15A0401				
4	17U11A0436	Nayak Electronics	45 Days	Circuits Design	HYDERABAD
5	17U11A0417				
6	18U15A0404				
7	17U11A0420	Integral Electronics	45 Days	PCB Design	HYDERABAD
8	17U11A0422				
9	17U11A0425				

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10	17U11A0425	Pantech e Learning	30 Days	A Distributed Cauny Edge Detector and its Implementation on FPGA	HYDERABAD
11	17U11A0460				
12	17U11A0428				
13	17U11A0409	TLC Group	45 Days	Design of Security Systems	HYDERABAD
14	17U11A0401				
15	17U11A0406				
16	18U15A0407	TLC	30Days	VLSI Design	HYDERABAD
17	18U15A0408				
18	18U15A0409				

Internship A.Y. 2018-19

S.No	H.T.No	ORGANIZATION NAME	DURATION	PROJECT NAME	LOCATION
1	17U15A0403	Millennium	45Days	VLSI	HYDERABAD
2	17U15A0407				
3	17U15A0414				
4	17U15A0415	Nayak Electronics	45 Days	Circuits Design	HYDERABAD
5	16U11A0422				
6	16U11A0470				
7	16U11A0468			Embedded Zero	
8	16U11A0440	Pantech e Learning	30 Days	Wavelet (EZW)	HYDERABAD
9	16U11A0465			Image Compression	
7	16U11A0445	TLC Group	45 Days	Embedded Systems	HYDERABAD
8	16U11A0436				
9	16U11A0426				
10	16U11A0413	TLC	45Days	Wireless Communication	HYDERABAD
11	16U11A0433				
12	16U11A0427				

3 COURSE OUTCOMES AND PROGRAM OUTCOMES (120)**Define the Program specific outcomes****3.1 Establish the correlation between the courses and the Program Outcomes (POs) and Program Specific Outcomes (PSOs) (20)**

:

PSO1	Professional skills: Apprehend and analyze specific engineering problems of communication & electronics circuits, signal processing and semiconductor technology by applying the knowledge of basic sciences, engineering mathematics and engineering fundamentals.
PSO2	Design and developing skills: Ability to design and implement the acquired technical knowledge with proficiency in logical programming for applications in electronics & communication engineering

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)

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

Course Name :		C2 15	Course Year :	2019-2020
Course Name	Statements			
C2 15.1	To acquire the fundamental knowledge in probability concepts			
C2 15.2	To Perform operations on single and multiple Random variables.			
C2 15.3	To Determine the Spectral and temporal characteristics of Random Signals			
C2 15.4	To Characterize LTI systems driven by stationary random process by using ACFs and PSDs			
C2 15.5	To apply the concepts of Noise and Information theory in Communication systems.			

Course Name :		C2 22	Course Year :	2019-2020
Course Name	Statements			
C2 22.1	To Acquire the knowledge of Basic Laws, Concepts and proofs related to Electrostatic Fields.			
C2 22.2	To Acquire the knowledge of Basic Laws, Concepts and proofs related to Magneto static Fields.			
C2 22.3	To Characterize the static and time-varying fields, establish the corresponding sets of Maxwell's Equations and Boundary Conditions.			
C2 22.4	To Analyze the Wave Equations and classify conductors, dielectrics and evaluate the UPW Characteristics.			
C2 22.5	To analyze completely the rectangular waveguides, their mode characteristics, and design wave guides for solving practical problems.			

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Course Name :		C3 12	Course Year :	2020-2021
Course Name	Statements			
C3 12.1	To Know the Categories and functions of various Data communication Networks			
C3 12.2	To Design and analyze various error detection techniques.			
C3 12.3	To Analyze the mechanism of routing the data in network layer			
C3 12.4	To Recognize the significance of various Flow control and Congestion control Mechanisms			
C3 12.5	To Know the principles and operations behind various application layer protocols			

Course Name :		C322	Course Year :	2020-2021
Course Name	Statements			
C3 22.1	To provide background and fundamental material for the analysis and processing of digital signals.			
C3 22.2	To familiarize the relationships between continuous-time and discrete time signals and systems.			
C3 22.3	To learn fundamentals of time, frequency and Z-plane analysis and to discuss the inter-relationships of these analytic method.			
C3 22.4	To familiarize the designs and structures of digital (IIR and FIR) filters from analysis to synthesis for a given specifications.			
C3 22.5	To acquaint in FFT algorithms, Multi-rate signal processing techniques and finite word length effects.			

Course Name :		C413	Course Year :	2021-2022
Course Name	Statements			
C4 13.1	Describe network security fundamental concepts and principles			
C4 13.2	Encrypt and decrypt messages using block ciphers and network security technology and Protocols			
C4 13.3	To impact knowledge about Evaluation of the authentication and hash algorithms			
C4 13.4	Analyze key agreement algorithms to identify their weaknesses			
C4 13.5	Identify and assess different types of threats, malware, spyware, viruses, vulnerabilities			

Course Name :		C421	Course Year :	2021-2022
Course Name	Statements			
C4 21.1	To Analyze the challenges and technologies for wireless networks.			
C4 21.2	To compare various architectures of Wireless Sensor Networks.			
C4 21.3	To classify different routing protocols in wireless sensor network.			
C4 21.4	To Analyze and compare various data gathering and data dissemination methods.			
C4 21.5	To Design, Simulate and Compare the performance of various routing and MAC protocol.			

3.1.2 CO-PO matrices of courses selected in 3.1.1(Six matrices to be mentioned; one per semester from 3rd to 8th semester) (5)**1. Course Name: C215**

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C215.1	3	3	-	3	3	-	-	-	-	-	-	-
C215.2	3	3	-	2	-	-	-	-	-	-	-	-
C215.3	3	3	-	2	-	-	-	-	-	-	-	-
C215.4	3	3	3	2	-	-	-	-	-	-	-	-
C215.5	3	3	3	2	-	-	-	-	-	-	-	-
Average	3.00	3.00	1.20	2.20	0.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00

2. Course Name :C222

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C222.1	3	3	2	2	-	1	-	-	-	1	-	-
C222.2	3	3	2	2	-	1	-	-	-	1	-	-
C222.3	3	3	2	1	-	1	-	-	-	1	-	-
C222.4	3	3	2	1	-	1	-	-	-	1	-	-
C222.5	3	3	2	2	-	1	-	-	-	1	-	-
Average	3.00	3.00	2.00	2.00	0.00	1.00	0.00	0.00	0.00	1.00	0.00	0.00

3. Course Name :C312

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C312.1	2	3	2	3	3	-	-	-	-	3	2	2
C312.2	3	3	3	2	3	-	-	-	-	3	3	2
C312.3	3	3	3	2	3	-	-	-	-	3	3	2
C312.4	3	3	2	3	3	-	-	-	-	2	2	2
C312.5	2	3	-	3	3	-	-	-	-	3	2	2
Average	2.60	3.00	2.00	2.60	3.00	0.00	0.00	0.00	0.00	2.80	2.00	2.00

4. Course Name :C322

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C322.1	3	3	3	3	3	-	-	-	-	-	2	3
C322.2	3	3	2	2	3	-	-	-	-	-	2	3
C322.3	3	3	3	2	2	-	-	-	-	-	2	3
C322.4	3	3	3	3	3	-	-	-	-	-	3	3
C322.5	3	3	2	3	3	-	-	-	-	-	3	3
Average	3.00	3.00	2.60	2.60	2.80	0.00	0.00	0.00	0.00	0.00	2.40	3.00

5. Course Name :C413

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C413.1	-	-	-	2	2	3	2	-	-	-	-	-
C413.2	3	-	2	-	2	2	2	3	2	-	1	-
C413.3	2	1	3	-	-	-	3	-	1	3	-	-
C413.4	2	3	2	2	-	-	2	2	2	-	3	-
C413.5	-	2	-	-	2	2	2	-	2	-	-	-
Average	1.40	1.20	1.40	0.80	1.20	1.40	2.20	1.00	1.40	0.60	0.80	0.00

6. Course Name :C421

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
Course												
C421.1	3	2	2	1	1	-	-	-	-	-	-	2
C421.2	3	3	2	1	1	-	-	-	-	-	-	2
C421.3	3	3	3	1	3	-	-	-	-	-	-	1
C421.4	3	3	3	1	3	-	-	-	-	-	-	1
C421.5	3	3	3	1	3	-	-	-	-	-	-	3
Average	3.00	2.80	2.60	1.00	2.20	0.00	0.00	0.00	0.00	0.00	0.00	1.80

1. Course Name :C215

Course	PSO1	PSO2
C215.1	2	2
C215.2	2	2
C215.3	2	2
C215.4	2	3
C215.5	2	3
Average	2.00	2.40

2. Course Name :C222

Course	PSO1	PSO2
C222.1	3	3
C222.2	3	3
C222.3	3	3
C222.4	3	3
C222.5	3	3
Average	3.00	3.00

3. Course Name :C312

Course	PSO1	PSO2
C312.1	2	2
C312.2	2	2
C312.3	3	2
C312.4	2	1
C312.5	2	-
Average	2.40	1.40

4. Course Name :C322

Course	PSO1	PSO2
C322.1	3	2
C322.2	3	2
C322.3	3	3
C322.4	3	2
C322.5	3	3
Average	3.00	2.40

5. Course Name :C413

Course	PSO1	PSO2
C413.1	3	2
C413.2	2	3
C413.3	1	1
C413.4	2	-
C413.5	2	2
Average	2.00	1.60

6. Course Name :C421

Course	PSO1	PSO2
C421.1	2	2
C421.2	3	2
C421.3	3	2
C421.4	3	2
C421.5	3	3
Average	2.80	2.20

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

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C111	3	3	3	3	3	0	0	0	0	0	0	0
C112	2	1.8	1	2	0	0	0	0	0	0	0	0
C113	2	2	3	2	0	0	0	0	0	0	0	0
C114	2.8	3	3	1	2	1.8	0	0	0	0	0	2
C115	2	1.8	1	2	0	0	0	0	0	0	0	0
C116	2	2	0.5	0	0.25	0	0	0	0	0	0	0
C121	3	3	3	3	3	0	0	0	0	0	0	0
C122	3	2	3	0	0	0	0	0	0	0	0	0
C123	3	2	1	0.2	2.2	0.8	0	0.6	1.4	0.8	1.6	2
C124	2.8	3	3	1	2	1.8	0	0	0	0	0	2
C125	1.8	0	0	0	0	0	0	1.6	1.8	1.6	0	2.4
C126	3	2	3	0	0	0	0	0	0	0	0	0
C127	1.8	0	0	0	0	0	0	1.6	1.8	1.6	0	2.4
C128	3	2	1	0.2	2.6	1.2	0	0.6	1.2	1.2	1.4	2
C211	3	3	3	2.6	0.8	0	0	0	0	0	1.2	0.4
C212	1.2	2.2	0.8	0	0	0.6	0	0	0	0	0	0.2
C213	2.8	2.4	2.2	0	1.8	0	0	0	0	0	0	1
C214	3	3	1.6	0.8	0.4	0	0	0	0	0	0	1
C215	3	3	1.6	2.2	0.6	0	0	0	0	0	0	0
C216	1	0	2	0	3	0	0	3	3	0	0	1
C217	2.8	2	3	0.2.6	0	0	0	0	0	0	0	0
C218	3	2	3	3	3	2	0	0	3	1	0	1
C219	0	0	0	0	0	0	0	3	0	0	0	0
C221	3	3	3	3	3	0	0	0	0	0	0	0
C222	3	3	2	1.6	0	1	0	0	0	1	0	0
C223	3	3	3	1	0	2.6	2	0	0	0	0	1

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C224	2.6	2.2	2	0	1.6	0	0	0	0	0	0	0
C225	1.6	1.8	0.6	2	0.6	0	0	0	0	0	0	0
C226	3	3	3	1	0	2	2	0	0	0	0	1
C227	2.4	3	2	1	0	0	0	0	0	0	0	0
C228	3	3	2.8	3	3	2	0	0	1.8	1.2	2.2	1
C229	0	0	0	0	0	0	0	2.4	2.8	2.4	0	0
C311	3	3	3	3	3	3	3	0	3	3	2	3
C312	2.6	3	2	2.6	3	0	0	0	0	2.8	2.4	2
C313	3	3	2.6	2.2	0	0	0	0	0	0	0	1
C314	1.2	2.2	1.2	0	0	1	0	0	1.2	0	2	0
C315	2.6	2.2	2	0	0	0	0	0	0	0	0	0
C316	3	3	3	3	3	3	3	0	3	3	2	3
C317	1.6	1.4	1.6	1	1.4	1.4	0	0	0	1.6	0	1.2
C318	1.8	0	0	0	0	0	0	1.6	1.8	1.6	0	2.4
C319	1.6	0.2	0	0.8	0	1	0.6	0.8	0	0.4	0	0
C321	3	3	3	3	2	3	2	0	0	3	2	3
C322	3	3	2.6	2.6	2.8	0	0	0	0	0	2.4	3
C323	3	1	3	0	0.6	0	0	0	0	0	0	0
C324	2.2	2.2	2.2	2.2	3	2.2	2.2	0	2	2	2	2
C325	0	0	0	0	0	1	2	2	3	3	3	2
C326	3	2	2	3	3	0	0	2	2	2	0	3
C327	2	2	2	2	3	0	0	0	0	1	0	3
C328	2.4	0.8	0.8	0.4	0.4	0	0	0	0	0	0	0
C329	0	0	0	0	0	0	3	2	0	0	0	2
C411	3	3	3	3	2	1	1	0	1	1	2	3
C412	3	3	3	3	2	1	1	0	1	1	2	3
C413	1.4	1.2	1.4	0.8	1.2	1.4	2.2	1	1.4	0.6	0.8	0
C414	2.2	0	0.4	0	0.2	0	0	1	2	1	0	1
C415	1.4	1.2	0.6	0.4	0.6	0.2	0	0	0	0	0	0
C416	3	3	3	3	2	1	1	0	1	1	2	3
C417	0.6	0.8	0.8	0.4	0	0	0	0	0.4	0.8	1.6	0
C418	1	0	0	1	0	0	0	0	0	1.7	0	2
C419	2	2.6	2.8	2	0.6	0	0	0	0	0	0	1.8
C421	3	2.8	2.6	1	2.2	0	0	0	0	0	0	1.8
C422	2.6	2.8	2.8	1	0	1.4	1.4	0	0	0	0	1
C423	3	2	0	0	0	0	0	0	0	0	0	0
C424	2.4	2.4	2.8	2	1.8	0	0	0	0	0	0	1.8

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

Course	PSO1	PSO2
C111	3	0
C112	1	2
C113	1	1
C114	2	2.8
C115	1	2
C116	0	0
C121	3	0
C122	0	0
C123	2.2	0
C124	2	2.8
C125	1	0
C126	0	0
C127	1	0
C128	2	2
C211	2.6	1.8
C212	2	0
C213	2.6	3
C214	2.4	2.6
C215	2.4	2.4
C216	2.4	1
C217	3	3
C218	3	0
C219	1	0
C221	3	0
C222	3	3
C223	2	2
C224	1.8	3
C225	2	2
C226	2	2
C227	2.4	3
C228	3	3
C229	0	0
C311	3	3
C312	1.8	1.4
C313	1	0

C314	0	0
C315	2.6	1.6
C316	3	3
C317	1.4	1.6
C318	1	0
C319	0.2	0.4
C321	3	3
C322	3	2.4
C323	2.2	1.6
C324	3	3
C325	0	0
C326	2	2
C327	3	3
C328	0	0.8
C329	0	0
C411	3	3
C412	3	3
C413	2	1.6
C414	0	0.8
C415	1	0.4
C416	3	3
C417	1.8	0
C418	2	1
C419	2.6	2.4
C421	2.8	2.2
C422	2.4	2.4
C423	2	1.6
C424	2.4	2

3.2 Attainment of Course Outcomes (50)

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

The key aspects in Outcome-Based Education (OBE) are the assessment of course outcomes. At the initial stage of OBE implementation, the Course Outcomes (COs) for each course are defined based on the Programme Outcome (POs) and other requirements. At the end of each course, the COs 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.

CO Assessment Processes

Assessment tools are categorized into two methods to assess the course outcomes as:

Direct methods and indirect methods.

1 Direct method displays the student's knowledge and skills from their performance in the continuous internal assessment tests, semester examinations, seminars, and class room and laboratory assignments etc. These methods provide a sampling of what students know and/or can do and provide strong evidence of student learning.

2 Indirect method includes student feedback on facilities, learning artifacts and course end survey that reflects the student's learning

Course Outcome is assessed in view of the performance of students in internal assessment, university examination of a Course and Course end survey. Direct assessment contributes 80% and indirect assessment contributes 20%. From direct assessment internal assessment contributes 25% and university assessment contributes 75% to the aggregate attainment of a CO.

Direct Assessment Method

Table: Direct Assessment Tool

S.No	Direct Assessment	Method Description
1	Internal Assessment	The Internal Assessment marks in a theory paper shall be based on two tests generally conducted at the end of 6 and 14 weeks of each semester. At the end of 14th week pre final examination

	Test	may be conducted. An improvement test may be conducted for the desirous students before the end of the semester to give an opportunity to such students to improve their Internal Assessment Marks. It is a metric to continuously assess the attainment of course outcomes w.r.t Course Objectives. Average of the two tests shall be the Internal Assessment Marks for the relevant subject.
2	Lab Assignments	Lab Assignment can be one of the measuring criteria to mainly assess student's practical knowledge with their designing capabilities. In case of Practical, the internal assessment marks shall be based on the laboratory records and two practical test.
3	Mid Examination	The examination pattern prescribed by the University is strictly followed. Two internal (mid) exams- mid exam 1 & mid exam 2- are conducted and two assignments (1 & 2) are given in each semester. In each of the two exams, each student is evaluated for 25 marks with the following split- up: • Descriptive test with the question paper set by concerned faculty: 10 marks • Objective type test with the question paper set by university: 10 marks • Assignment set by course teacher: 5 marks
4	Theory and Practical Semester End Examination	Semester End Examination (Theory or Practical) are the metrics to assess whether all the course outcomes are attained or not by the course owner. Semester End Examination is more focused on attainment of the course outcomes and uses a descriptive exam.

5	Seminar	The Department selects a senior faculty member as a seminar coordinator. Seminar Coordinator has to sit with other faculty to assess the Technical seminar presentations by students. One seminar presentation per student in the VII semester would be conducted as per the schedule mentioned prior in Time Table. Seminar coordinators follow rubrics, which is set by the department for evaluation of seminar.
6	Project	Project batches are formed as per the instruction given by project coordinators. Synopsis will be submitted to the project coordinators for scrutinizing. Project Batches are allotted to the internal guides based on the specialization and competency skills of the faculties. Each internal guide will continuously monitor their students on a weekly basis to observe the progress of the work. The project guide along with project coordinator conduct 2 project reviews as per the rubrics, which is set by the Department. The Internal Assessment marks are submitted to the Head of Department. The department will encourage students to participate in technical Expo and the project guides motivate and guide the students to publish in standard conference/journal forums.

As per the JNTU regulations, the marks allotted to theory are 25% and practical 25% for internal assessment. The remaining 75% is done at university end assessment. The university end examinations are conducted at a center other than this college. Though the percentage of internal assessment is low, it is to be covering a large number of course objectives. The internal examination and the prescribed marks are to be complied with the regulation. Therefore, the scope for comprehensive assessment is less. In this frame work, the college conducts the components depicted in the above Table.

The internal assessment evaluation is separately compiled and graded to understand the process.

In the present analysis, the attainment levels are expressed in terms of the grades (3, 2 and 1) in accordance with the following rules:

Attainment Level 3: Greater than 60% of the students are scoring more than targeted

value which is above the average of each Course Outcome in the internal examination.

Attainment Level 2: Between 50 to 59% of the students are scoring more than targeted value which is above the average of each Course Outcome in the internal examination.

Attainment Level 1:Between 40 to 49% of the students are scoring more than targeted value which is above the average of each Course Outcome in the internal examination.

The same yardsticks are applied to external evaluation. It is based on the results of the Examinations conducted by university at the end of each semester. However, the institute doesn't have access to the answer scripts and evaluation of individual course outcomes is not possible. University authorities provide us with the information on the marks/grades scored by each student in each course. The attainment levels are expressed in terms of the grades (3, 2 and 1) in accordance with the following rules:

Attainment Level 3:Greater than 60% of the students are scoring more than the University average percentage marks or set attainment level in the final examination

Attainment Level 2:Between 50 to 59% of the students are scoring more than the University average percentage marks or set attainment level in the final examination

Attainment Level 1:Between 40 to 49% of the students are scoring more than the University average percentage marks or set attainment level in the final examination

Indirect Assessment

Table: Indirect assessment methods

S.No	Indirect Assessment	Description
1	Alumni feedback	Collect the various information about program satisfaction and college from the Alumni students.

2	Exit survey	Collect the various information about program satisfaction and college from the final year students.
3	Employer feedback	Collect the various information about the graduate's skills, capabilities and opportunities.
4	Parents feedback	Collect the information about program satisfaction and college from parents.
5	Student feedback	Collect the information about outcome based education in teaching and learning process.

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

COURSE OUTCOME ATTAINMENT LEVELS OF ALL COURSES

I YEAR I SEMESTER							
S. No.	Course Code	Course Title	CO1	CO2	CO3	CO4	CO5
1	C111	Mathematics - I	1.63	1.42	1.43	1.43	1.43
2	C112	Applied Physics	1.57	1.52	1.44	1.52	1.52
3	C113	Programming for Problem Solving	1.53	1.38	1.47	1.39	1.39
4	C114	Engineering Graphics	1.81	1.74	1.67	1.75	1.75
5	C115	Applied Physics Lab	2.33	2.25	2.26	2.33	2.26
6	C116	Programming for Problem Solving Lab	2.35	2.31	2.32	2.35	2.32

I YEAR II SEMESTER

S. No.	Course Code	Course Title	CO1	CO2	CO3	CO4	CO5
1	C121	Mathematics - II	1.63	1.44	1.4	1.45	1.45
2	C122	Chemistry	1.58	1.54	1.47	1.55	1.55
3	C123	Basic Electrical Engineering	1.64	1.54	1.49	1.55	1.55
4	C124	Engineering Workshop	2.36	2.24	2.17	2.24	2.24
5	C125	English	1.8	1.66	1.67	1.8	1.67
6	C126	Engineering Chemistry Lab	2.4	2.34	2.26	2.35	2.35

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7	C127	English Language and Communication Skills Lab	2.21	2.12	2.06	2.12	2.12
8	C128	Basic Electrical Engineering Lab	2.24	2.01	2.02	2.02	2.02

II YEAR I SEMESTER

S. No.	Course Code	Course Title	CO1	CO2	CO3	CO4	CO5
1	C211	Electronic Devices and Circuits	1.57	1.45	1.45	1.45	1.45
2	C212	Network Analysis and Transmission Lines	1.5	1.44	1.38	1.44	1.44
3	C213	Digital System Design	1.49	1.44	1.4	1.44	1.44
4	C214	Signals and Systems	1.39	1.3	1.31	1.39	1.31
5	C215	Probability Theory and Stochastic Processes	1.45	1.38	1.38	1.45	1.38
6	C216	Electronic Devices and Circuits Lab	2.4	2.17	2.35	2.18	2.18
7	C217	Digital System Design Lab	2.31	2.26	2.27	2.31	2.27
8	C218	Basic Simulation Lab	2.25	2.14	2.14	2.14	2.14

II YEAR II SEMESTER

S. No.	Course Code	Course Title	CO1	CO2	CO3	CO4	CO5
1	C221	Laplace Transforms, Numerical Methods & Complex Variables	1.62	1.51	1.44	1.51	1.51
2	C222	Electromagnetic Fields and Waves	1.44	1.43	1.44	1.44	1.44
3	C223	Analog and Digital Communications	1.61	1.57	1.57	1.61	1.57
4	C224	Linear IC Applications	1.63	1.53	1.46	1.53	1.53
5	C225	Electronic Circuit Analysis	1.58	1.53	1.54	1.58	1.54
6	C226	Analog and Digital Communications Lab	2.27	2.1	2.02	2.11	2.11
7	C227	IC Applications Lab	2.34	2.16	2.08	2.16	2.16
8	C228	Electronic Circuit Analysis Lab	2.3	2.12	2.01	2.13	2.13
9	C229	Gender Sensitization Lab	2.25	2.14	2.07	2.14	2.14

II YEAR I SEMESTER

S. No.	Course Code	Course Title	CO1	CO2	CO3	CO4	CO5
1	C311	Microprocessors & Microcontrollers	1.38	1.38	1.38	1.38	1.38
2	C312	Data Communications and Networks	1.51	1.4	1.4	1.51	1.4
3	C313	Control Systems	1.49	1.38	1.39	1.49	1.39
4	C314	Business Economics & Financial Analysis	1.46	1.41	1.41	1.46	1.41
5	C315	Professional Elective – I (EMI)	1.59	1.5	1.5	1.59	1.5
6	C316	Microprocessors & Microcontrollers Lab	2.14	2.04	2.04	2.14	2.04
7	C317	Data Communications and Networks Lab	2.29	2.25	2.15	2.25	2.25
8	C318	Advanced Communication Skills Lab	2.1	2.07	2.07	2.1	2.07

III YEAR II SEMESTER

S. No.	Course Code	Course Title	CO1	CO2	CO3	CO4	CO5
1	C321	Antennas and Propagation	1.55	1.55	1.55	1.55	1.55
2	C322	Digital Signal Processing	1.57	1.46	1.42	1.46	1.46
3	C323	VLSI Design	1.69	1.58	1.43	1.58	1.58
4	C324	Professional Elective – II (ESD)	1.65	1.58	1.58	1.58	1.58
5	C325	Open Elective – I (IM)	1.61	1.6	1.6	1.61	1.6
6	C326	Digital Signal Processing Lab	2.08	1.95	1.95	2.08	1.95
7	C327	e – CAD Lab	2.05	1.91	1.91	2.05	1.91
8	C328	Scripting Languages Lab	1.99	1.9	1.9	1.99	1.9

III YEAR I SEMESTER

S. No.	Course Code	Course Title	CO1	CO2	CO3	CO4	CO5
1	C411	Microwave and Optical Communications	1.6	1.54	1.6	1.54	1.54
2	C412	Professional Elective – III (DIP)	1.61	1.5	1.67	1.5	1.5
3	C413	Professional Elective – IV (NSC)	1.68	1.63	1.73	1.63	1.63
4	C414	Open Elective – II (JP)	1.56	1.51	1.63	1.51	1.51
5	C415	Professional Practice, Law & Ethics	1.64	1.59	1.55	1.59	1.59
6	C416	Microwave & Optical Communications Lab	2.27	2.27	2.27	2.27	2.27
7	C417	Industrial Oriented Mini Project/ Summer Internship	2	2	2	2	2
8	C418	Seminar	2	2	2	2	2
9	C419	Project Stage - I	2	2	2	2	2

IV YEAR II SEMESTER

S. No.	Course Code	Course Title	CO1	CO2	CO3	CO4	CO5
1	C421	Professional Elective – V (WSN)	1.72	1.68	1.74	1.68	1.68
2	C422	Professional Elective – VI (SOC)	1.68	1.61	1.69	1.61	1.61
3	C423	Open Elective – III (NCSE)	1.74	1.69	1.8	1.69	1.69
4	C424	Project Stage - II	2	2	2	2	2

3.3 Attainment of Program Outcomes and Program Specific Outcomes (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)

Assessment tools are categorized into direct and indirect methods to assess the Program Outcomes and Program Specific Outcomes

1. Direct method displays the student's knowledge and skills from their performance in the continuous assessment tests, end-semester examinations, presentations, and classroom assignments etc. These methods provide a sampling of what students know and/or can do and provide strong evidence of student learning.
2. Indirect methods such as surveys and interviews ask the stakeholders to reflect on students learning. They assess opinions or thoughts about the graduates knowledge or skills and their valued by different stakeholders.

The program outcomes are assessed with the help of course outcomes of the relevant Courses through direct and indirect methods.

Direct Assessment Method (B1):

Direct Assessment methods are formative as well as summative. It measures are provided through direct examinations or observations of student knowledge or skills against measureable course outcomes. The knowledge and skills described by the course outcomes are mapped to specific problems on internal exams/home assignment/group task. Throughout the semester the faculty records the performance of each student on each course outcome. At the end of the semester students receive grades from external exams. Calculations are same as that done for CO attainment and carry forwarded here.

S.No	Direct Assessment Method	Description	Frequency of Data Collection
1	Internal Assessment Test	The internal assessment marks for a theory subject shall be based on average of two internal tests marks obtained.	Twice in a Semester
2	Lab Internal Assessment Test	The internal assessment marks for a laboratory shall be based on laboratory reports (Record), conduction of experiments, viva voce and internal test marks obtained.	Before the end of every semester
3	Seminar (Internal Assessment)	The internal assessment marks in the case of seminars in the final year shall be based on the evaluation by a committee comprising of head of the department and senior faculty members as per rubrics prepared.	VII semester

Indirect Assessment Method (B2):

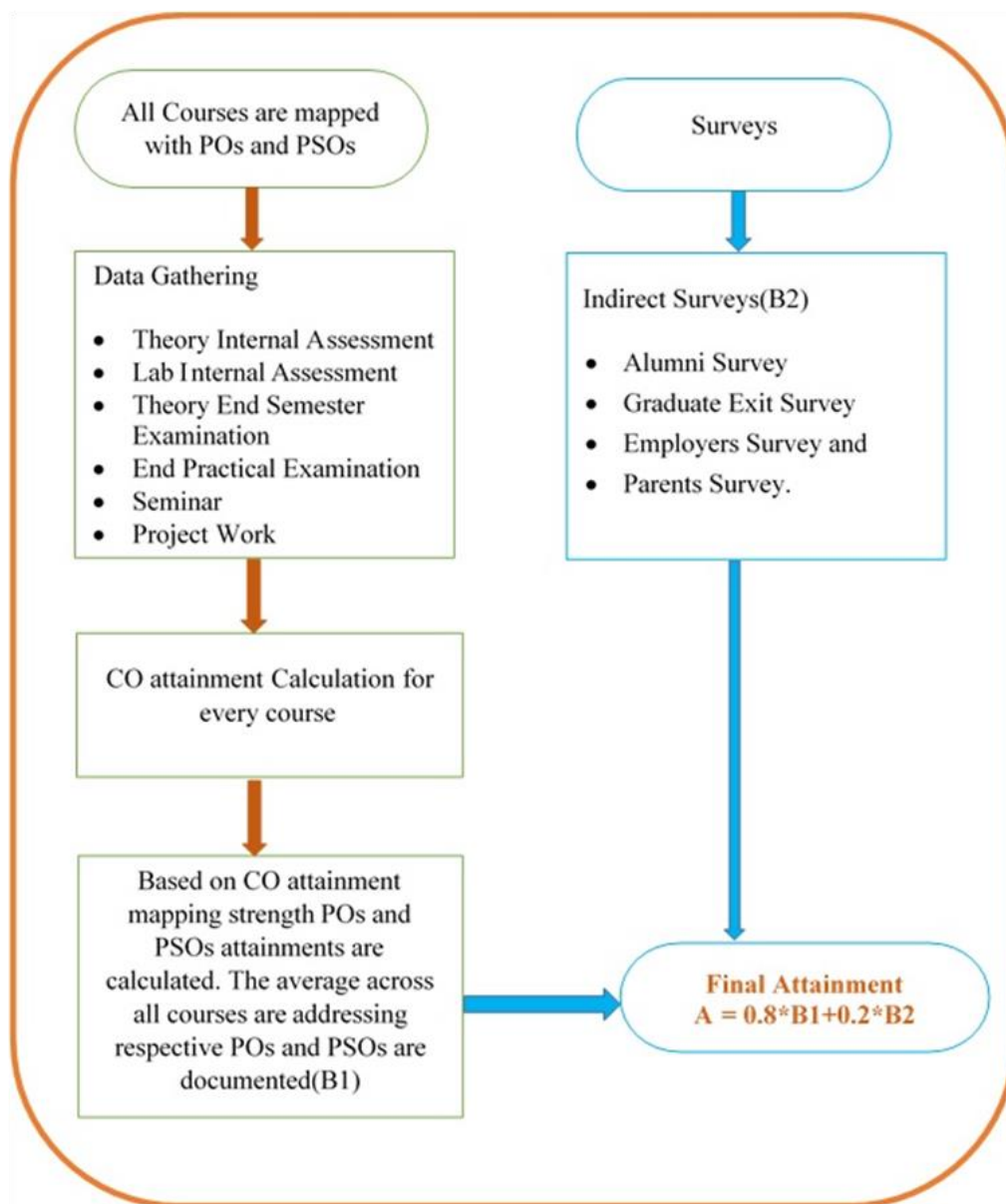
Indirect assessment strategies are implemented by embedding them in

- a) Alumni Survey
- b) Graduate Exit Survey
- c) Employers Survey and
- d) Parents Survey.

The assessment methods and how it is carried is as shown in the below table

S.No	Direct Assessment Method	Description	Frequency of Data Collection
1	Graduate Exit Survey	To evaluate the success of programme in providing students with opportunities to achieve the programme outcome.	Every Year
2	Parents Survey	Collect variety of information about program satisfaction, from parent's end.	Once in a Year
3	Alumni Survey	Collect variety of information about program satisfaction, from graduate's end	Every Year
4	Employers Survey	Provide information about our graduate's skills and capability.	Every Year

Process followed for Measuring Attainment of PO & PSO's



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

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C111	1.47	1.47	1.47	1.47	1.47	0	0	0	0	0	0	0
C112	1.01	0.91	0.2	0.8	0	0	0	0	0	0	0	0
C113	0.86	1.43	0.86	0	0	0	0	0	0	0	0.29	0.67
C114	1.63	1.74	1.74	0.47	1.16	1.04	0	0	0	0	0	1.16
C115	1.52	1.32	0.31	1.21	0	0	0	0	0	0	0	0
C116	2.02	1.71	0.31	0	0.16	0	0	0	0	0	0	0
C121	1.47	1.47	1.47	1.47	1.47	0	0	0	0	0	0	0
C122	1.54	0.82	0.6	0	0	0	0	0	0	0	0	0
C123	1.55	1.04	0.52	0.1	1.13	0.41	0	1.31	0.73	0.4	0.83	1.04
C124	2.1	2.25	2.25	0.61	1.5	1.35	0	0	0	0	0	1.5
C125	1.03	0	0	0	0.22	0	0	0.93	1.04	0.93	0	1.38
C126	0.78	1.24	0.92	0	0	0	0	0	0	0	0	0
C127	1.27	0	0	0	0	0	0	1.14	1.28	1.13	0	1.7
C128	2.06	1.37	0.69	0.13	1.76	0.81	0	0.4	0.84	0.81	0.97	1.37
C211	1.48	1.48	1.48	1.18	0	0	0	0	0	0	0.6	0.19
C212	0.8	1.06	0.38	0	0	0.29	0	0	0	0	0	0.1
C213	1.35	1.15	1.06	0	0.87	0	0	0	0	0	0	0.1
C214	1.34	1.34	0.71	0.36	0.17	0	0	0	0	0	0	0.36
C215	1.41	1.41	0.57	1.07	0.29	1.41	0	0	0	0	0	0
C216	0.75	0	1.5	0	2.25	0	0	2.25	2.25	0	0	0.75
C217	2.28	1.52	2.28	1.57	0	0	0	0	0	0	0	0
C218	2.16	1.44	2.16	2.16	2.16	1.4	0	0	2.16	0.72	0	0.72
C221	1.52	1.52	1.52	1.52	1.52	0	0	0	0	0	0	0
C222	1.43	1.43	0.96	0.77	0	0.48	0	0	0	0.48	0	0
C223	1.59	1.59	1.59	0.53	0	1.38	1.06	0	0	0	0	0.53
C224	1.53	1.53	0.81	0.4	0.2	0	0	0	0	0	0	0.41
C225	1.5	1.55	0.62	1.14	0.32	1.55	0	0	0	0	0	0
C226	0.71	0	1.41	0	2.12	0	0	2.12	2.12	0	0	0.71
C227	2.18	1.45	2.18	1.45	0	0	0	0	0	0	0	0
C228	2.14	1.43	2.14	2.14	2.14	1.43	0	0	2.14	0.71	0	0.71
C229	2.15	1.43	2.15	2.15	2.15	1.43	0	0	2.15	0.72	0	0.7
C311	1.38	1.38	1.38	1.38	1.38	1.38	1.38	0	1.38	1.38	0.92	1.38

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C312	1.25	1.44	0.96	1.26	1.44	0	0	0	0	1.34	1.15	0.96
C313	1.43	1.43	1.23	1.05	0	0	0	0	0	0	0	0.48
C314	0.05	1.05	1.05	1.05	1.43	1.05	1.05	0.95	0.95	0.95	0.95	0.95
C315	1.54	0.92	0.71	0	0	0	0	0	0	0	0	0
C316	2.08	2.08	2.08	2.08	2.08	2.08	0	2.08	2.08	1.39	2.08	2.08
C317	1.2	1.04	1.19	0.74	1.04	1.05	0	0	0	1.2	0	0.9
C318	1.25	0	0	0	0	0	0	1.1	1.25	1.11	0	1.66
C321	1.5	1.55	1.55	1.55	1.03	1.55	1.03	0	0	1.16	1.55	1.03
C322	1.47	1.47	1.28	1.28	1.38	0	0	0	0	0	1.18	1.47
C323	1.17	0.52	1.57	0	0.31	0	0	0	0	0	0	0
C324	1.17	1.17	1.17	1.17	1.59	1.17	1.17	0	1.06	1.06	1.06	1.06
C325	0	0	0	0	0	0.53	1.07	1.07	1.6	1.6	1.6	1.07
C326	1.74	1.59	1.6	1.73	1.72	0	0	1.59	1.46	1.61	0	1.46
C327	1.31	1.31	1.31	1.31	0.97	0	0	0	0	0.65	0	1.97
C328	1.55	0.52	0.52	0.26	0.26	0	0	0	0	0	0	0.52
C411	1.56	1.56	1.56	1.56	1.04	0.52	0.52	0	0.52	0.52	1.04	1.56
C412	1.5	1.5	1.5	1.55	1.04	0.52	0.52	0	0.52	0.52	1.04	1.55
C413	0.77	0.66	0.78	0.44	0.66	0.77	1.22	0.54	0.77	0.35	0.43	0
C414	1.13	0	0.2	0	0.1	0	0	0	0	0	0	0.4
C415	0.74	1.27	1.59	0.95	0.96	0	0	0	0	0	0	0.96
C416	2.27	2.27	2.27	2.27	1.51	0.76	0.76	0	0.76	0.76	1.51	2.27
C417	2	2	2	2	2	2	2	2	2	2	2	2
C418	2	2	2	2	2	2	2	2	2	2	2	2
C419	2	2	2	2	2	2	2	2	2	2	2	2
C421	1.7	1.59	1.47	0.57	1.25	0	0	0	0	0	0	1.02
C422	1.44	1.53	1.5	0.55	0	0.77	0.77	0	0	0	0	0.55
C423	0.57	0.57	0.57	0.57	0	0	0	0	0	0	0.57	0.57
C424	2	2	2	2	2	2	2	2	2	2	2	2

PO Attainment Level

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO Attainment	1.77	1.73	1.62	1.36	1.59	1.54	1.59	1.78	1.77	1.47	1.58	1.47
Direct Attainment	1.46	1.41	1.28	1.20	1.24	1.18	1.24	1.47	1.46	1.09	1.23	1.09
In Direct Attainment	3	3	3	2	3	3	3	3	3	3	3	3

PSO Attainment

Course	PSO1	PSO2
C111	1.47	0
C112	0.31	0.4
C113	0	0
C114	1.16	1.28
C115	0.46	0.61
C116	0	0
C121	1.47	0
C122	0	0
C123	1.14	0
C124	1.5	1.66
C125	0.57	0
C126	0	0
C127	0.71	0
C128	1.37	0
C211	1.19	0.89
C212	0.96	0
C213	1.25	1.44
C214	1.07	1.16
C215	1.3	1.13
C216	1.81	0.75
C217	2.28	2.28
C218	2.16	0
C221	1.52	0
C222	1.43	1.43
C223	1.06	1.06
C224	1.23	1.33
C225	1.24	1.24
C226	1.71	0.71
C227	2.18	2.18
C228	2.14	0
C229	2.15	0
C311	1.38	1.38
C312	1.06	0.68
C313	0.48	0
C314	1.43	1.43
C315	1.54	0.51
C316	2.08	2.08
C317	1.04	1.2

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C318	0.69	0
C321	1.55	1.55
C322	1.47	1.17
C323	1.16	0.84
C324	1.59	1.59
C325	0	0
C326	1.06	1.06
C327	1.97	1.97
C328	1.67	1.29
C411	1.56	1.56
C412	1.55	1.55
C413	1.1	0.88
C414	0	0
C415	1.27	1.06
C416	2.27	2.27
C417	2	2
C418	2	2
C419	2	2
C421	1.59	1.25
C422	1.31	1.31
C423	0	0
C424	2	2

PSO Attainment Level

Course	PSO1	PSO2
CO Attainment	1.74	1.68
Direct Attainment	1.43	1.35
InDirect Attainment	3	3

4 STUDENTS' PERFORMANCE (150)**Table 4.1**

Item (Information to be provided cumulatively for all the shifts with explicit headings, wherever applicable)	2022-23 (CAY)	2021-22 (CAYm 1)	2020-21 (CAYm 2)	2019-20 (CAYm 3)	2018-19 (CAYm4)	2017-18 (CAYm5)	2016-17 (CAYm 6)
Sanctioned intake of the program(N)	60	120	120	120	120	120	120
Total number of students admitted in first year minus number of students migrated to other programs/ institutions plus No. of students migrated to this program (N1)	63	78	63	75	87	80	72
Number of students admitted in 2nd year in the same batch via lateral entry (N2)	-	24	30	27	21	15	15
Separate division students, If applicable (N3)	-	-	-	-	-	-	-
Total number of students admitted in the programme(N1 + N2 + N3)	63	102	93	102	108	95	87

Table 4.2

Year of entry	Total No of students admitted in the program (N1 + N2 + N3)	Number of students who have successfully graduated without backlogs in any semester/ year of study (Without Backlog means no compartment or failures in any semester/ year of study)			
		I year	II year	III year	IV year
2022-23 (CAY)	63				
2021-22 (CAYm1)	102	35			
2020-21	93	40	48		

(CAYm2)					
2019-20 (CAYm3)	102	48	65	65	
2018-19 (LYG)	108	52	65	65	65
2017-18 (LYGm1)	95	55	55	55	55
2016-17 (LYGm2)	87	48	50	48	48

Table 4.3

Year of entry	Total No of students admitted in the program (N1 + N2 + N3)	Number of students who have successfully graduated in stipulated period of study) [Total of with Backlog + without Backlog]			
		I year	II year	III year	IV year
2022-23 (CAY)	63				
2021-22 (CAYm1)	102	38			
2020-21 (CAYm2)	93	45	50		
2019-20 (CAYm3)	102	50	68	68	
2018-19 (LYG)	108	52	68	68	68
2017-18 (LYGm1)	95	57	57	57	57
2016-17 (LYGm2)	87	51	51	51	51

4.1 Enrolment Ratio (20)

	N (From Table 4.1)	N1 (From Table 4.1)	Enrollment Ratio [(N1/N)*100]
2022-23 (CAY)	60	63	105
2021-22 (CAYm1)	120	78	65.00
2020-21 (CAYm2)	120	63	52.50

Average [(ER1 + ER2 + ER3) / 3] : 74.16

4.2 Success Rate in the stipulated period of the program (40)**4.2.1 Success rate without backlogs in any semester / year of study (25)**

Item	Latest Year of Graduation , LYG (2018-19)	Latest Year of Graduation minus 1, LYGm1 (2017-18)	Latest Year of Graduation minus 2 LYGm1 (2016-17)
X Number of students admitted in the corresponding First year + admitted in 2nd year via lateral entry and seperated division, if applicable	108	95	87
Y Number of students who have graduated without backlogs in the stipulated period	65	55	48
Success Index [SI = Y / X]	0.60	0.58	0.55

Average SI [(SI1 + SI2 + SI3) / 3] : 0.57

Assessment [25 * Average SI] : 14.25

4.2.2 Success rate in stipulated period (15)

Item	Latest Year of Graduation , LYG (2017-18)	Latest Year of Graduation minus 1, LYGm1 (2016-17)	Latest Year of Graduation minus 2 LYGm2 (2015-16)
X Number of students admitted in the corresponding First year + admitted in 2nd year via lateral entry and seperated division, if applicable	108	95	87
Y Number of students who have graduated in the stipulated period	68	57	51
Success Index [$SI = Y / X$]	0.62	0.60	0.59

Average SI[(SI1 + SI2 + SI3) / 3]: 0.60

Assessment [15 * Average SI] : 9.05

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 10.40

Academic Performance	CAYm3 (2019-20)	LYG (2018-19)	LYGm1 (2017-18)
Mean of CGPA or mean percentage of all successful students(X)	7.01	6.87	6.97
Total number of successful students(Y)	68	68	57
Total number of students appeared in the examination(Z)	102	108	95
API [$X*(Y/Z)$]:	4.67	4.32	4.18

Average API [(AP1 + AP2 + AP3)/3] : 4.39

Assessment [1.5 * AverageAPI] : 6.58

4.4 Academic Performance in Second Year (15)

Academic Performance	CAYm2 (2020-21)	CAYm3 (2019-20)	LYG (2018-19)
Mean of CGPA or mean percentage of all successful students(X)	6.81	7.15	6.45
Total number of successful students (Y)	50	68	68
Total number of students appeared in the examination (Z)	93	102	108
API [$X * (Y/Z)$]	3.66	4.76	4.06

Average API [$(AP1 + AP2 + AP3)/3$] : 4.15

Assessment [$1.5 * \text{Average API}$] : 6.24

4.5 Placement, Higher Studies and Entrepreneurship (40)

Item	LYG (2018-19)	LYGm1 (2017-18)	LYGm2 (2016-17)
Total No of Final Year Students(N)	108	95	87
No of students placed in the companies or government sector(X)	45	50	44
No of students admitted to higher studies with valid qualifying scores(GATE or equivalent State or National Level tests, GRE, GMAT etc.) (Y)	3	6	5
No of students turned entrepreneur in engineering/technology (Z)	-	-	-
$x + y + z =$	48	56	49
Placement Index [$(X+Y+Z)/N$] :	0.44	0.58	0.56

Average Placement [$(P1 + P2 + P3)/3$] : 0.52

Assessment [$40 * \text{Average Placement}$] : 21.12

Program Name : Electronics and Communications Engineering**Assessment Year Name : CAYm1**

S.No	Name Of The Students	Enrollment No	Employee Name	Appoinment No	Package
1	G. Vaishnavi	18U11A0449	Surya Tech Solutions	220704125	2.2 LPA
2	H. Bhasker	18U11A0422	Surya Tech Solutions	220704123	2.2 LPA
3	D. Arvind	18U11A0413	Surya Tech Solutions	220704120	2.2 LPA
4	B. Rohini	18U11A0409	Surya Tech Solutions	220704119	2.2 LPA
5	S. Bharath Kumar	19U15A0409	Surya Tech Solutions	220704117	2.2 LPA
6	SURA VISHNU	18U11A0439	Surya Tech Solutions	220704113	2.2 LPA
7	GEDALA DURGA PRASAD	18U11A0419	Surya Tech Solutions	220704115	2.2 LPA
8	VALLURI SESA PRANEETH	18U11A0479	CSS Crop	Applr/CSS/2179	1.2 LPA
9	MAJI RAKESH	18U11A0463	CSS Crop	Applr/CSS/2163	1.2 LPA
10	K DEEKSHA	18U11A0457	CSS Crop	Applr/CSS/2157	1.2 LPA

11	P.Sai Priya	18U11A0435	Moschip Technologies Ltd	MOS/AUG/22	1.8 LPA
12	P Vaishnavi	18U11A0433	Popcornapps	Pca9000390	3.5 LPA
13	Macha Muktheeshwar	18U11A0427	Vodafone India Services Pvt.Ltd	VOD-2227	4.75 LPA
14	Puligilla Anusha	18U11A0436	Cigniti Technologies	OID2021/36	4.0 LPA
15	ARIFUR RAHMAN MOLLIK	18U11A0481	Cigniti Technologies	OID2021/81	4.0 LPA
16	Manne Shishir Sai	18U11A0429	Tech Mahindra	2070251/Eltp-Campus/2022	3.25 LPA
17	Manikonda Sri Charan	18U11A0428	Freyr Software Service Pvt Limited	FRY/1828	3.25 LPA
18	Chintaparti Riharika	18U11A0412	Capgemini	2330942	4.0 LPA
19	B.Bhargavi	19U15A0403	Medico	21/M/1903	3.5 LPA
20	B.Vamshi Raj	18U11A0407	Medico	21/M/1807	3.5 LPA
21	B.Vishnuvardhan	18U11A0406	Medico	21/M/1806	3.5 LPA
22	M.Ananya	18U11A0430	Medico	21/M/1830	3.5 LPA
23	M.Bhargavi	18U11A0488	Medico	21/M/1888	3.5 LPA
24	D.Madhumitha	18U11A0414	Medico	21/M/1814	3.5 LPA

25	V.Levin	18U11A0491	Medico	21/M/1891	3.5 LPA
26	k.Sanjay Kumar	19U15A0415	Medico	21/M/1915	3.5 LPA
27	KAKOLLU SRIKANTH	18U11A0459	Medico	21/M/1859	3.5 LPA
28	A G S S S SARAVNI	18U11A0445	Medico	21/M/1845	3.5 LPA
29	M. Shashi Kiran Reddy	18U11A0431	Kalyani Rafael Advanced Systems Pvt Ltd	KR/APP/1831	1.2 LPA
30	Chennadi Sathwika	18U11A0411	Kalyani Rafael Advanced Systems Pvt Ltd	KR/APP/1811	1.2 LPA
31	Kompelly Sahana	18U11A0423	Kalyani Rafael Advanced Systems Pvt Ltd	KR/APP/1823	1.2 LPA
32	Srirangam Tharun Kumar	18U11A0475	Kalyani Rafael Advanced Systems Pvt Ltd	KR/APP/1875	1.2 LPA
33	Mudam Sudeep	19U15A0406	Kalyani Rafael Advanced Systems Pvt Ltd	KR/APP/1806	1.2 LPA
34	Bendabembli Bhaves Reddy	18U11A0408	Kalyani Rafael Advanced Systems Pvt Ltd	KR/APP/1808	1.2 LPA
35	Bandla Sai Shirisha	18U11A0404	Kalyani Rafael Advanced	KR/APP/1804	1.2 LPA

			Systems Pvt Ltd		
36	Alima Sai Sruthi	18U11A0401	Kalyani Rafael Advanced Systems Pvt Ltd	KR/APP/1801	1.2 LPA
37	G Sireesha Devi	18C21A0419	Kalyani Rafael Advanced Systems Pvt Ltd	KR/APP/1819	1.2 LPA
38	R.Mounika	18U11A0401	Kalyani Rafael Advanced Systems Pvt Ltd	KR/APP/1801	1.2 LPA
39	Gurram Anusha	18U11A0421	Kalyani Rafael Advanced Systems Pvt Ltd	KR/APP/1821	1.2 LPA
40	Moola Rajeshwari	19U15A0417	Kalyani Rafael Advanced Systems Pvt Ltd	KR/APP/1817	1.2 LPA
41	Bommakanti Venkata Shanmukha Vamsi Krishna	18U11A0448	Kalyani Rafael Advanced Systems Pvt Ltd	KR/APP/1848	1.2 LPA
42	Barlapati Amulya	19U15A0402	Kalyani Rafael Advanced Systems Pvt Ltd	KR/APP/1902	1.2 LPA
43	Gorla Gowri Priya	18U11A0420	Kalyani Rafael Advanced Systems Pvt Ltd	KR/APP/1820	1.2 LPA

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44	Banothu Archana	18U11A0405	Kalyani Rafael Advanced Systems Pvt Ltd	KR/APP/1805	1.2 LPA
45	DYAPA THARUN	18U11A0416	Mindtree	21081816	4.0 LPA

Assessment Year Name : CAYm2

S.No	Student Name	Enrollment No	Employee Name	Appointment No
1	AS Meetha Reddy	17U11A0402	24/7 Customer PVT Ltd	13084435
2	A.Anil	17U11A0403	Surya Tech Solutions	20070481
3	B.Raviteja	17U11A0413	Surya Tech Solutions	20070480
4	C.Sri sai teja	17U11A0420	Surya Tech Solutions	20070482
5	Nikitha Kankade	17U11A0427	Face Prep	CN20210657
6	Khush Srivastav	17U11A0428	Byjus	TNL201608055
7	Pittala Tushitha	17U11A0441	Face Prep	CN20210642
8	P.sai kiran	17U11A0442	Surya Tech Solutions	20070491
9	Sai Vinay Reddy Sripathi	17U11A0451	Byjus	TNL201608051
10	Thatipally Niharika	17U11A0453	Face Prep	CN20210652
11	V ABHINAV RAJ	17U11A0455	MECHTURBO	MT/HYD/LOA/ 27
12	VELMALA PRATYUSHA	17U11A0456	MECHTURBO	MT/HYD/LOA/ 29
13	VELURI	17U11A04	MECHTURBO	MT/HYD/LOA/

	PRATHYUSHA	57		33
14	V Ashwini	17U11A04 58	Qspiders Software Testing Trainig Institute	793253
15	CH Sahiti	17U11A04 61	Face Prep	CN20210659
16	K.Brahma Reddy	17U11A04 64	Capgemini	761063
17	V.Diwakar	17U11A04 76	Surya Tech Solution	20070483
18	Adimulam Navyasri	18U15A04 01	Face Prep	CN20210656
19	BrahmaRouthu Prudhvi Varma	18U15A04 03	Tata Technologies Ltd	TCSL/DT20218 988532
20	E.Sai kumar	18U15A04 05	Qspiders	793256
21	A KAMESHWARA SAI SRAVAN	17U11A04 01	Surya Tech Solution	20070491
22	ANKAMGARI SWAPNA	17U11A04 05	Surya Tech Solution	20070492
23	BANDARU NATRAJ	17U11A04 11	PLIANTO TECHNOLOGIES	20070493
24	CHANDANALA SANDHYARANI	17U11A04 16	Surya Tech Solution	20070494
25	GOGULA SANTHOSHI KUMARI	17U11A04 22	Surya Tech Solution	20070495
26	KANDIMALLA DEEPTHI	17U11A04 26	Surya Tech Solution	20070496
27	M SPANDANA	17U11A04 31	Surya Tech Solution	20070497
28	MATTAPALLI SANDHYA	17U11A04 32	Byjus	TNL201608052
29	MOTHE PRADEEPTHI	17U11A04 35	Byjus	TNL201608046
30	MUKTHYALA UDAYA SRI	17U11A04 36	Capgemini	761068
31	N SUSHMA	17U11A04 37	Byjus	TNL201608045
32	PADALA SHRAVYA	17U11A04	Byjus	TNL201608124

		39		
33	PECHETTI HEENA	17U11A04 40	Surya Tech Solution	20070253
34	POTLA RACHANA	17U11A04 43	Surya Tech Solution	20070264
35	PULGAM SOUMYA	17U11A04 44	Surya Tech Solution	20070265
36	PULI SAI KAMAL GOUD	17U11A04 45	Surya Tech Solution	20070269
37	RAHUL PATNAIK	17U11A04 46	Byjus	TNL201608041
38	RAMAGIRI SRAVANI	17U11A04 47	Qspiders	793625
39	SEEMALA SWETHA	17U11A04 49	Qspiders	793622
40	VEGYARAPU MANISHA	17U11A04 77	Qspiders	793629
41	CHANDA JITHENDER	17U11A04 60	Face Prep	CN20210634
42	KANAPARTHI STELLA CHARLES	17U11A04 63	Face Prep	CN20210639
43	KATA LOURDU BALA SHOWRY	17U11A04 65	24/7 Customer PVT Ltd	13084440
44	RAMIDI SANDEEP REDDY	17U11A04 72	MECHTURBO	MT/HYD/LOA/ 47
45	TALLA SAINATH	17U11A04 74	MECHTURBO	MT/HYD/LOA/ 54
46	KAMASANI LAVANYA	17U11A04 81	Unistring Tech solutions	UTS1985121
47	BADE HIMAVARSHINI	18U15A04 02	Unistring Tech solutions	UTS1985134
48	CHINDHALURI OMKAR	18U15A04 04	Medconverge	MED/TA/4936
49	ANKARLA DEEKSHITHA	18U15A04 09	Medconverge	MED/TA/4957
50	P SUSHMITHA	18U15A04 14	Medconverge	MED/TA/4959

Assessment Year Name : CAYm3

S. No	Student Name	Enrollment No	Employee Name	Appointment No
1	Arunachallam shivani	16U11A0404	Wipro Ltd	20187697
2	Banda Sainath Reddy	16U11A0406	Medico healthcare services & technologies	1764
3	BANDARU TEJASRI	16U11A0407	SI INNOVATIONS PVT LTD	SI/HYF/LOA/2165
4	CH Sudheer Kumar	16U11A0416	Medico healthcare services & technologies	1760
5	Dilpreet kour chugh	16U11A0421	Pragmaedge software servises Pvt Ltd	PE/TA/10-21/113
6	G Raviteja Reddy	16U11A0428	Medico healthcare services & technologies	1723
7	Katkam Saritha	16U11A0434	Cyient Ltd	C321431
8	KAVATI GANESH	16U11A0435	Surya Tech Solution	19070449
9	Kethavath Dheeraj Nayak	16U11A0436	Medico healthcare services & technologies	1763
10	KCH Sai Charan Reddy	16U11A0437	Medico healthcare services & technologies	1775
11	M Sucharitha	16U11A0440	Cognizant	17833693
12	P Shivani	16U11A0444	Alliens Group	AG/TE/6435
13	PASHAM MANOJ KUMAR	16U11A0446	Surya Tech Solution	19070450
14	PONNAM NAVEENKUMAR	16U11A0447	Surya Tech Solution	19070452
15	Pulgam Archana	16U11A0448	Medico healthcare services & technologies	1743
16	RAYALA DEEPIKA	16U11A0453	Alliens Group	AG/TE/6348
17	Regatte Ashwini	16U11A0455	TCS	TCSL/DT20229526739
18	S Sai Vivek	16U11A0458	Medico healthcare services & technologies	1746
19	V Sowmya	16U11A0459	Medico healthcare services & technologies	1750
20	Sura Aishwarya	16U11A0460	EY Global delivery services india LTD	EGDS/1920/004

21	TUDI SRILATHA	16U11A0461	Surya Tech Solution	19070455
22	Vangapally Shirisha	16U11A0464	Cyient Ltd	C321433
23	VINJAM NAGA LAKSHMI	16U11A0466	Surya Tech Solution	19070447
24	Y BHARGAVI	16U11A0467	Alliens Group	AG/TE/6350
25	Y Shanmuuk revanth	16U11A0468	Intellect desing arena ltd	iGCB/OC/20-21/8229
26	YENNI ANUSHA	16U11A0470	Surya Tech Solution	19070445
27	AKULA SRINU	17U15A0401	Alliens Group	AG/TE/6350
28	Madipadige Arun	17U15A0406	Tech mahindra Ltd	TMC/2019/1250
29	Sana Begum	17U15A0409	Medico healthcare services & technologies	1755
30	RATHOD SUNIL KUMAR	17U15A0410	Surya Tech Solution	19070446
31	THABASUM	17U15A0411	Surya Tech Solution	19070443
32	A Chandana	17U15A0412	Medico healthcare services & technologies	1767
33	K RAVIKANT	17U15A0413	Alliens Group	AG/TE/6365
34	K SADGUNA	17U15A0414	Surya Tech Solution	19070444
35	Kesani Sai Eshwar Rao	16M51A0415	Medico healthcare services & technologies	1777
36	ALDANDI SUPRIYA	16U11A0403	Surya Tech Solution	19070446
37	GOTTAMUKKULA PRASANNA LAXMI	17U11A0404	Medico healthcare services & technologies	1770
38	Mamatha Reddy p	16U11A0445	SYKES business services of india Pvt Ltd	SY/JE/1920/1521
39	NEELAWAR MUKTESHWAR SRINIVAS	16U11A0443	Surya Tech Solution	19070461
40	VANAPAMULA NEELIMA	16U11A0463	Medico healthcare services & technologies	1780
41	AKULA SAI KUMAR	16U11A0402	Surya Tech Solution	19070451
42	BIDEKANNE SANGAMESHWAR REDDY	16U11A0411	Surya Tech Solution	19070452
43	BONGURALA BANU PRASAD	16U11A0414	Medico healthcare services & technologies	1781
44	D DIVYA	16U11A0418	Surya Tech Solution	19070453

4.6 Professional Activities (20)**4.6.1 Professional societies / chapters and organizing engineering events (5)**

Professional societies such as IETE and ISTE have already been incepted in the college. Many events are organized in collaboration with professional bodies. Through our students Association ACTIVITY CLUB members organized various events for the benefit of the student and faculty members.

Table Professional Societies

S.No	Acronym	Professional Society
1	IETE	Institution of Electronics and Telecommunication Engineers
2	ISTE	Indian Society for Technical Education

Institution of Electronics and Telecommunication Engineers (IETE) Student chapter**Objectives of Institution Student Forum (ISF):**

1. Improving standard of Engineering Education
2. Counseling the students in the emerging new opportunities
3. Encouraging and motivating the outside Class room studies /Work Shops/projects/Seminars
4. Increasing the student base and corporate membership of IETE.

Activities:

1. To plan, organize Technical Programs, Special Lectures, Workshops, Seminars Symposia, exhibitions for the benefit of students.
2. To provide common platform for students to exchange of ideas in technical topics of interest, e.g., curriculum, employment, higher

educational opportunities, emerging trends, etc.

3. To facilitate technical visits, project works, employment, contact with industries and academic Institutions.
4. Encourage team spirit and self-reliance among student members.
5. ISFs should be a catalyst for the overall growth in technical and professional skills in young Students.

ISTE Institution membership:**The major objectives of the ISTE are:**

Providing quality training programs to teachers and administrators of technical institutions to update their knowledge and skills in their fields of activity.

To assist and contribute in the production and development of top quality professional engineers and technicians needed by the industry and other organizations.

Providing guidance and training to students to develop better learning skills and Personality.

Professional activities for the past three academic years are shown in the following tables

Academic Year: 2021-22**Seminar/Webinar/training program organized by ISTE Institution Chapter: 2021-22**

S.No	Name of the Program	Date	Resource person	No of participants
1.	Guest Lecture on Digital System Design	06/01/2023 To 07/01/2023	Mr S.Rajender Kumar Associate professor	70

2	A Two Day Work Shop On AI/ML	12/12/2022 to 13/12/2022	Mr. K. Ashok Reddy Assistant Professor	30
3	A Two day work shop on IoT	16/11/2022 To 17/11/2022	Mr. J.Sunil Kumar Associate Professor	30
4	A Two day work shop on PCB Design	20/01/2023 to 21/01/2023	Mr. J.Sunil Kumar Associate Professor	40

Academic Year: 2020-21

Seminar/Webinar/training program organized by ISTE Institution Chapter: 2020-21

S. No	Name of the Program	Date	Resource person	No of participants
1.	A Two Weeks Certificate Program On PCB Design For 2 Electrical And Electronics And Application	25/11/2021	P.Surender Babu Project Manager	75
2.	Two Week Add-On Programme On AI & ML	02/12/2021	P.Ashok Kumar Project Manager	70
3.	Guest Lecture on Optical Fiber Communications and	13/11/2021	Dr P.Lova Kumar Sr.Manager in Regional Telecommunication Training Center,	90

	Transmission Technology		BSNL	
4.	Guest Lecture on networking and Data Communications	12/11/2021	Dr. T. S. Srinivas, Sr. Manager in Regional Telecommunication Training Center, BSNL	90

Academic Year: 2019-20

Seminar/Webinar/Training Program Organized by IETE-Professional Chapter

Seminar/Webinar/training program organized by ISTE Institution Chapter: 2019-20

S.No	Name of the Program	Date	Resource person	No of participants
1.	Seminar on GRE, IELTS for Overseas Education	15/02/2020	Mr P.Rajendra Prasad Assistant Professor	80
2.	A THREE Weeks Program On PCB Design For	27/10/2019	P.Surender Babu Project Manager	60

	Electrical And Electronics And Applicatio n			
3.	Three week certificate program on Multi Disciplinary Applications using LAB View	17/02/2020	Dr.Y.Srinivas HOD & Professor	60
4.	WORK SHOP ON ARTIFICI AL INTELLIG ENCE	20/11/2019	P.Surender Babu Project Manager	60

Academic Year: 2018-19**Seminar/Webinar/training program organized by ISTE Institution Chapter: 2018-19**

S. No	Name of the Progr am	Date	Resource person	No of participants
1.	Two week certificate program on Matlab and its	13/08/2018	K.VANISREE Associate Professor	60

	applications workshop			
2.	Two week certificate program on Basics of Matlab programme	16/07/2018	P.Surender Babu Project Manager	60
3	3 DAY WORK SHOP ON ROBOTICS	27/08/2018	P.Surender Babu Project Manager	70

4.6.2 Publication of technical magazines, newsletters, etc. (5)

In the beginning of the semester the Head of the Department along with faculty coordinator conducts a meeting with the students to select the student's editors. The interested students will be selected as student's editors. Every month activities conducted in the Department are recorded and documented. At the end of the year these documents are properly designed and Newsletter, THE ECE BITES of that year will be released. The technical magazine, THE ECE GAZETTE is made yearly to enrich the technical skills to the student.

A.Y 2021-2022

S.No	Name of the Newsletter/Technical Magazine	Editorial	Frequency
1	THE ECE GAZETTE Technical Magazine	Editors: 1. HOD ECE Mr.M.Sreenivasulu 2. Mrs K.Vanisree Associate Professor ECE Faculty Coordinator: 3. Mrs Y.Jalajakshi Assistant Professor ECE Student Members: IV ECE 1. S.MAHESH (19U11AO469) 2. MAMATHA (19U11AO422)	Yearly
2	THE ECE BITES News Letter	Editors: 1. HOD ECE Mr.M.Sreenivasulu 2. Mrs K.Vanisree Associate Professor ECE 3. Mrs Y.Jalajakshi Assistant Professor ECE Student Members: SHANMUKHA (19U11A0424) IV ECE	

		B.RAGHU (21U15A0418) III ECE BHAVYA (21U11A0474) II ECE	
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A.Y 2020-2021

S.No	Name of the Newsletter/Technical Magazine	Editorial	Frequency
1	THE ECE GAZETTE Technical Magazine	Editors: 1. HOD ECE Mr.M.Sreenivasulu 2. Mrs K.Vanisree Associate Professor ECE Faculty Coordinator: 3. Mrs Y.Jalajakshi Assistant Professor ECE Student Members: IV ECE 3. Sura Vishnu (18U11AO439) 4. M.Afreen (18U11AO465)	Yearly

2	THE ECE BITES News Letter	Editors: 1. HOD ECE Mr.M.Sreenivasulu 2. Mrs K.Vanisree Associate Professor ECE 3. Mrs Y.Jalakshi Assistant Professor ECE Student Members: P. TUSHITHA (17U11A0441) IV ECE M.Sudeep (19U15A0406) III ECE Sunkari Mahesh (19U11A0469) II ECE	
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A.Y 2019-2020

S.NO	Name of the Newsletter/Technical Magazine	Editorial	Frequency
1	THE ECE GAZETTE Technical Magazine	Editors: 1. HOD ECE Mr.M.Sreenivasulu 2. Mrs K.Vanisree Associate Professor ECE Faculty Coordinator: 1. Mrs Y.Jalakshi Assistant Professor ECE Student Members: IV ECE 1. M.Udaya Sri (17U11AO436) 2. Khush Srivastav (17U11AO428)	Yearly
2	THE ECE BITES News Letter	Editors: 1. HOD ECE Mr.M.Sreenivasulu 2. Mrs K.Vanisree Associate Professor ECE 3. MrsY.Jalakshi Assistant Professor ECE Student Members: 1. M Sucharitha (16U11A0440) IV ECE 2. Ch. Omkar (18U15A0404) III ECE 3. D. Tharun (18U11A0416) II ECE	Yearly

A.Y 2018-2019

S.No	Name of the Newsletter/Technical Magazine	Editorial	Frequency
1	THE ECE GAZETTE Technical Magazine	Editors: 1. Dr.J.Govardhan Principal 2. HOD ECE Mr.M.Sreenivasu lu Associate Professor Faculty Coordinator: 1. Mrs K.Vanisree Associate Professor ECE Student Members: IV ECE 1. B. Sainath Reddy 16U11AO406) 2. Diprect Kaur Chugh (16U11AO421)	Yearly

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2	THE ECE BITES News Letter	Editors: 1. Dr.J.Govardhan Principal 2. HOD ECE Mr.M.Sreenivasu Iu Associate Professor 3. Mrs K.Vanisree Associate Professor ECE Student Members: Madhari Anusha (15U11A0433) Arunachallam Shivani (16U11A0404) III ECE B. Prudhvi Varma (18U15A0403) II ECE	
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4.6.3 Participation in inter-institute events by students of the program of study (10)

Participation in inter-institute events 2020-2021

S.No	Title of the Event	Name of the Organizer	Name of the Event	Name of the student participated
1	One Week Workshop	IEEE KITSW students Branch	Fundamentals of MATLAB and Programming	Sura Vishnu
2	QUIZ	B.V.Raju Institute of Technology . T.S.	Aptitude, Reasoning and C Programming	Sura Vishnu
3	QUIZ	Balaji Institute of Technology & Science	JAVA Programming Basics	Sura Vishnu
4	National level QUIZ	Chaitanya Deemed University	JAVA Fundamentals	Sura Vishnu
5	Internship	Samagra Foundation Vasudaiva Kutumbakam	Web Development	Omkar Chindhaluri
6	SEO Training 2020	Udemy	Complete SEO Guide for Beginners	Jashwanth

Participation in inter-institute events 2019-2020

S.No	Title of the Event	Name of the Organizer	Name of the Event	Name of the student participated
1	AAKRUTHI 2020	Osmania University	Technical Symposium	P.Sai Priya
2	Internship Training	National Skill Development	Embedded Systems, IOT and VLSI design	Neerudi Bhavani

		Corporation		
3	AAKRUTHI 2020	Osmania University	Technical Symposium	Gowriy Priya
4	SPOORTHY 2020	Dr. Raju's Educational Academy	E-PAPYRUS	Gowriy Priya
5	SPOORTHY 2020	Dr. Raju's Educational Academy	E-PAPYRUS	P.Sai Priya
6	Workshop	XCEL VATIONS	Excellence in Software Programming and ML	A. Navya Sri
7	Workshop	XCEL VATIONS	Excellence in Software Programming and ML	A.D.Deekshitha
8	Workshop	XCEL VATIONS	Excellence in Software Programming and ML	P.Heena
9	Workshop	XCEL VATIONS	Excellence in Software Programming and ML	R.Sravani
10	Workshop	XCEL VATIONS	Excellence in Software Programming and ML	P.Sowmya
11	INFINITY 2020	OUCES	Project EXPO	A.Anil
12	INFINITY 2020	OUCES	Project EXPO	A.Swapna
13	UEST-2020	JNTUH	National level Technical symposium	A.Anil
14	Volley Ball	CVR college of Engineering	State Level Engineering Premier League	Ch.Sahithi
15	Football	MRCET	Sports Blitz	Sai kumar
16	Carrom	MRCET	Sports Blitz	Pranay Kumar
17	Carrom	KPRIT	Kurukshetra-2K19	Nikhitha
18	Football	KPRIT	Kurukshetra-2K19	Sai kumar

Participation in inter-institute events 2018-2019

S.No	Title of the Event	Name of the Organizer	Name of the Event	Name of the student participated
1	Project EXPO	Samskruthi college of Engineering and Technology	TEKSHETRA-2K19	A.D.Deekshitha
2	Project EXPO	Samskruthi college of Engineering and Technology	TEKSHETRA-2K19	T.Nikhila
3	QUIZ	Samskruthi college of Engineering and Technology	TEKSHETRA-2K19	N.Neelima
4	Workshop on Augmented Reality And Virtual Reality	Samskruthi college of Engineering and Technology Pushpak Kypuram	EDURIDGE	V.Neelima
5	Sports(basket ball)	Samskruthi college of Engineering and Technology Pushpak Kypuram	Jubilation 2K19	k.Bala shoury
6	Sports(table tennis)	Anurag Group of Institutions	Sports Bout-2K18	Nithya
7	Sports-Carroms	MVSR Engineering College	Athlema-2K18	D.Pavan
8	Kho-Kho	MVSR Engineering College	Athlema-2K18	D.Uday Kumar
9	Volley Ball	QIS college of Engineering & Technology	QIS FEST 2018	Ch.Sahithi

5 FACULTY INFORMATION AND CONTRIBUTIONS (200)

Name	PAN No.	University Degree	Date of Receiving Highest Degree	Area of Specialization	Current Designation	Date (Designated as Prof/Assoc. Prof.).	Initial Date of Joining	Association Type	Currently Associated with (Yes/No)	In case of NO, Date of Leaving	IS HOD?
DIVYA SESHABATTAR	CIWPS3326K	M.E/M.Tech	20/08/2015	VLSI System Design	Assistant Professor		07/12/2015	Regular	Yes		No
JALAJAK SHI YELLAMELLI	ACTPY0982C	M.E/M.Tech	20/01/2010	EMBEDDED SYSTEMS	Associate Professor		15/06/2012	Regular	Yes		No
PAVANI MANNE	AFTEY0765T	M.E/M.Tech	12/12/2012	VLSI System Design	Associate Professor		14/04/2014	Regular	Yes		No
DEEPA KARNE	DWWPK6119K	M.E/M.Tech	10/07/2012	ECE	Assistant Professor		19/07/2016	Regular	No	17/12/2022	No
KETHADI NAVEEN KUMAR	DWWPK1906A	M.E/M.Tech	21/01/2015	ECE	Assistant Professor		19/06/2017	Regular	Yes		No
MUSTHAQ ALI MUBEEN MOHAMMAD	BABPM9527N	M.E/M.Tech	22/10/2012	EMBEDDED SYSTEMS	Assistant Professor		01/07/2016	Regular	No	10/12/2022	No
VAMSIKRI SHNA JUPUDI	AJSPJ5529L	M.E/M.Tech	20/12/2010	VLSI System Design	Assistant Professor		21/06/2016	Regular	Yes		No
CHANDRA SEK HAR PATTEM	CUMPP0385D	M.E/M.Tech	05/11/2013	EMBEDDED SYSTEMS	Assistant Professor		18/06/2015	Regular	Yes		No
DIVYA DONT HIRE DDY	BBGPD1177D	M.E/M.Tech	18/08/2015	VLSI System Design	Assistant Professor		01/09/2015	Regular	Yes		No

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Dr. SANDEEP KUMAR VASA	AEJPV0812N	ME/M. Tech and PhD	16/01/2021	ECE	Professor	01/02/2021	13/10/2014	Regular	Yes		No
SAHITHI BITLA	DOBPS2057P	M.E/M.Tech	18/08/2015	Embedded systems & VLSI Design	Assistant Professor		07/12/2015	Regular	Yes		No
Dr SHARATH KUMAR DRVA	BMUPS4805E	ME/M. Tech and PhD	11/03/2013	ECE	Professor	17/12/2018	17/12/2018	Regular	No	01/05/2021	No
Dr. POKURI SUMITHAB HASHINI	BNHPP8121L	ME/M. Tech and PhD	27/10/2010	EEE	Professor	17/02/2020	17/02/2020	Regular	No	31/05/2021	No
THALAPALLY MRINALINI CHARAN	AKZPT7821R	M.E/M.Tech	15/02/2012	EMBEDDED SYSTEMS	Assistant Professor		26/07/2018	Regular	Yes		No
Dr. MUDE SREENIVA SULU	APFPM8605P	ME/M. Tech and PhD	22/07/2021	ECE	Professor	02/08/2021	28/08/2019	Regular	Yes		Yes
KARUPOT HULA LAVANYA	CCLPK9600D	M.E/M.Tech	18/07/2016	VLSI System Design	Assistant Professor		28/08/2019	Regular	No	02/05/2022	No
Dr. KARNEY DAMODAR	CBBRD9826M	ME/M. Tech and PhD	11/12/2018	ECE	Associate Professor	23/07/2019	23/07/2019	Regular	No	31/08/2021	No
KANCHARANA PRASANTH	CIDPL0371H	M.E/M.Tech	21/01/2014	COMMUNICATION SYSTEMS	Assistant Professor		28/05/2019	Regular	Yes		No
CHAKILAM MANI KUMAR	ALZPC6738R	M.E/M.Tech	17/12/2013	EMBEDDED SYSTEMS	Assistant Professor		08/07/2019	Regular	No	31/05/2022	No
KANNAN VANI SHREE	AGEPV0509K	M.E/M.Tech	01/05/2007	ECE	Associate Professor	15/07/2019	15/07/2019	Regular	Yes		No
GALIPPELLY SUSMITHA	AYDPG9996N	M.E/M.Tech	11/11/2014	EMBEDDED SYSTEMS	Assistant Professor		11/07/2019	Regular	No	31/05/2022	No
ANUJA RATHLAVATH	BHOPR3203G	M.E/M.Tech	04/10/2019	EMBEDDED SYSTEMS	Assistant Professor		01/03/2021	Regular	Yes		No

ECE – Self Assessment Report

MOUNICA GINNARAP U	BXJPG8400 M	M.E/M.Tech	02/11/2020	VLSI System Design	Assistant Professor		15/03/2021	Regular	No	03/12/2022	No
CHUKKA RANJITH	DRTPR3466J	M.E/M.Tech	19/01/2019	Signal and Image Processing	Assistant Professor		03/06/2019	Regular	Yes		No
NARESH DHONTHIS ARAM	BZVPD6418 A	M.E/M.Tech	24/08/2015	VLSI System Design	Assistant Professor		10/06/2019	Regular	Yes		No
ANUSHA KORE	DVBPK8911 B	M.E/M.Tech	19/12/2016	Embedded systems	Assistant Professor		03/09/2021	Regular	No	17/12/2022	No
SANGEETHA BALNE	AMSPB0787 F	M.E/M.Tech	10/02/2011	VLSI System Design	Assistant Professor		25/03/2021	Regular	Yes		No
KOTHAPALLY VINAYKUMAR	DKFPK2047P	M.E/M.Tech	23/10/2014	EMBEDDED SYSTEMS	Assistant Professor		01/02/2021	Regular	Yes		No
Latha Madhuri Nikkula	AWUPN2697 Q	M.E/M.Tech	10/12/2013	ECE	Assistant Professor		02/11/2021	Regular	No	10/12/2022	No
BODDULA SRAVANTHI	BNMPB2314 J	M.E/M.Tech	24/10/2014	Embedded systems	Assistant Professor		13/07/2019	Regular	Yes		No
KURUMADALI LEELA SANTHOSH	CCXPK9161 K	M.E/M.Tech	02/02/2016	VLSI	Assistant Professor		02/11/2021	Regular	No	10/12/2022	No
CHANDAN ALAREKHA	BEKPC8897 Q	M.E/M.Tech	18/06/2012	VLSI System Design	Assistant Professor		01/12/2021	Regular	No	17/12/2022	No
Dr. PRASAD VALLURU	AJWPV0669 H	ME/M. Tech and PhD	08/06/2017	ECE	Professor	22/11/2021	22/11/2021	Regular	Yes		No
Dr. TEJAVATH RAMAKRISHNA	CEAPR2978 Q	ME/M. Tech and PhD	15/01/2018	ECE	Professor	04/12/2021	04/12/2021	Regular	Yes		No
Dr. J KALIAPPA	BZUPK1569 E	ME/M. Tech and PhD	20/02/2016	ECE	Professor	01/12/2021	01/12/2021	Regular	Yes		No

ECE – Self Assessment Report

N											
Dr. MUCHETI SHIVA KUMAR	AIXPM6557B	ME/M. Tech and PhD	30/11/2020	ECE	Professor	25/11/2021	25/11/2021	Regular	Yes		No
PADMA LEELA KANAPAR THI	AWDPK0139P	M.E/M.Tech	22/09/2010	VLSI System Design	Assistant Professor		04/09/2021	Regular	No	17/12/2022	No
GANJI VEERAAIAH	BQUPG6812M	M.E/M.Tech	05/11/2014	VLSI System Design	Assistant Professor		04/10/2021	Regular	Yes		No
SHILPA SAMARLA	FMWPS8048P	M.E/M.Tech	28/12/2012	VLSI System Design	Assistant Professor		01/10/2021	Regular	No	03/12/2022	No
MUDRAGA DDA SHESHI REKHA	CMGPM6195J	M.E/M.Tech	18/12/2013	EMBEDDED SYSTEMS	Assistant Professor		01/12/2021	Regular	Yes		No
UPPU BHARADWAJA	AYPPB2507C	M.E/M.Tech	22/12/2020	VLSI & Embedded systems	Assistant Professor		06/09/2021	Regular	No	03/12/2022	No
Anup Tiwari	ATLPT4422F	M.E/M.Tech	20/05/2013	VLSI System Design	Assistant Professor		22/11/2022	Regular	Yes		No
R Jawwharlal	ANFPR4645E	M.E/M.Tech	15/06/2009	DECS	Associate Professor		10/ 11/ 2022	Regular	Yes		No
K GANESH	DBXPK1706G	M.E/M.Tech	11/12/2017	Embedded systems & VLSI Design	Assistant Professor		22-11-2022	Regular	Yes		No
Vuyyala Shankar	ANKPV9129Q	M.E/M.Tech	15/02/2015	ECE	Assistant Professor		14/11/2022	Regular	Yes		No
Anandita Goswami	AWGPG5613B	M.E/M.Tech	12/07/2012	VLSI System Design	Assistant Professor		24/11/2022	Regular	Yes		No

5.1 Student-Faculty Ratio (20)

UG

No. of UG Programs in the Department: 01

Electronics and Communication Engineering						
Year of Study	CAY		CAYm1		CAYm2	
	(2022-23)		(2021-22)		(2020-21)	
	Sanction Intake	Actual admitted through lateral entry students	Sanction Intake	Actual admitted through lateral entry students	Sanction Intake	Actual admitted through lateral entry students
2nd Year	120	12	120	12	120	10
3rd Year	120	12	120	10	120	10
4th Year	120	10	120	10	120	9
Sub-Total	360	34	360	32	360	19
Total	394		392		379	

PG

No. of PG Programs in the Department: -0

SFR

No. of UG Programs in the Department-1

No. of PG Programs in the Department-0

Description	CAY(2022-23)	CAYm1 (2021-22)	CAYm2 (2020-21)
Total No. of Students in the Department(S)	394 Sum total of all (UG+PG) students	392 Sum total of all (UG+PG) students	379 Sum total of all (UG+PG) students
No. of Faculty in the Department(F)	30		

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)	30	0
CAYm1(2021-22)	35	0
CAYm2(2020-21)	34	0

Average SFR for three assessment years: 11.82

Assessment SFR : 20

5.2 Faculty Cadre Proportion (25)

Year	Professors		Associate Professors		Assistant Professors	
	Required F1	Available	Required F2	Available	Required F3	Available
CAY(2022-23)	2	6	4	4	12	19
CAYm1(2021-22)	2	6	4	4	12	24
CAYm2(2020-21)	2	2	4	4	12	27
Average Numbers	2	4.6	4	4	12	23.33

Cadre Ratio Marks [(AF1 / RF1) + [(AF2 / RF2) * 0.6] + [(AF3 / RF3) * 0.4]] * 12.5: 34.47

5.3 Faculty Qualification (25)

	X	Y	F	FQ = 2.5 x [(10X + 4Y) / F]
2022-23(CAY)	6	24	18	21.66
2021-22(CAYm1)	6	29	18	24.40
2020-21(CAYm2)	2	32	18	20.55

Average Assessment: 22.20

5.4 Faculty Retention (25)

Description	2021-22	2022-23
No of Faculty Retained	18	16
Total No of Faculty	35	30
% of Faculty Retained	0.51	0.53

Average: 52.16

Assessment Marks: 10

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

Innovations by the Faculty in teaching and learning shall be summarized as per the following description.

Contributions to teaching and learning are activities that contribute to the improvement of student learning. These activities may include innovations not limited to, use of ICT, Instruction delivery, instructional methods, assessment, evaluation and inclusive class rooms that lead to effective, efficient and engaging instruction. Any contributions to teaching and learning should satisfy the following criteria:

The work must be made available on Institute Website The work must be available for peer review and critique

The work must be reproducible and developed further by other scholars

The department/Institution may set up appropriate processes for making the contributions available to the public, getting them reviewed and rewarding. These may typically include statement of clear goals, adequate preparations, use of appropriate methods, significance of result, effective presentation and reflective critique.

Teaching methods adapted to improve student learning (Centralized / Department levels)

Following innovate learning methods are initiated and implemented by the faculty for students to learn in a better manner.

1. Computer Assisted learning
2. Group learning
3. Innovations in Assessment
4. Innovations in evaluations

Computer-Assisted learning:

ICT usages are abundantly practiced for the teaching-learning processes.

Objectives:

- To provide direct access to quality instructional resources through computers connected in LAN and Internet, Motivate the students do electronic presentations (PPTs).
- Assess the students through online/offline quiz tests for better learning.

Facilities Created:

- LCDs are consistently used in the class-room lecture delivery.
- Internet facility is provided to students for deeper inquiry into their subjects.
- The technologies are used even in the co-curricular activities during seminars, workshops.

Outcomes:

The students and faculty are engaged in effective teaching and learning process.

Group Learning or Collaborative Learning:

A collection of students who are intellectually engaged in solving problems, creating products, and an assemblage in which each students learn autonomously. Rather than focusing only on what the individual knows, the goal is to build a collective body of knowledge.

Innovations in Assessment:

Objectives:

Simplify the assessment of course outcomes and program outcomes.

Take corrective actions during the middle of the semester for better attainment levels of course outcomes and program outcomes

Methodology:

Special Assessment software is designed and implemented to collect the attainment levels of course outcomes and program outcomes on frequent basis. An assessment web link is provided to the students and faculty for giving feedback on the outgoing lecture sessions.

The student gives feedback about the ongoing subject-wise lecture sessions. This feedback will enable the faculty to know the effectiveness of their teaching on day to day lecture basis and helps to improve their performance.

Outcomes:

- Effective teaching and learning process
- Better attainment levels of course outcomes and program outcomes

Innovations in Evaluation:

Generally, evaluation of students is done by the faculty,. However, an innovative assignment evaluation method is proposed and implemented with the following objectives:

Objectives:

To enhance the understanding levels of the subjects to improve the presentation skills

The Work Must Be Available for Peer Review and Critique:

The department conduct periodic innovative events among the students and invite expert faculty (in-house as well as external) as judges and record the result of these events as per the details mentioned below for better attainment of course outcomes, POs, PSOs. The experts will also record their valuable feedback in terms of peer review and critique. Important observations are placed on the notice board.

The Work Must Be Reproducible and Developed Further by Other Scholars

The innovative methods and work carried out by the department is effectively used by the other research scholars of different institutes. Apart from this the review and critiques about the methodologies are taken as feedback and selectively implemented wherever feasible.

List of Colleges in which the scholars are using /used our methodologies

S.NO	INSTITUTE NAME
1	VIGNANS INSTITUTE OF MANAGEMENT AND TECHNOLOGY FORWOMAN
2	VIGNANA BHARATHI INSTITUTE OF TECHNOLOGY
3	ACE ENGINEETONG COLLOGE

REPORT ON QUIZ COMPETITION

Name of Department :	Electronics and Communication Engineering Department
Date & Time :	14 th September 2022, 2 P.M.
Topic :	Electronics Based Quiz
No of Participants :	4 Teams

●Objective of the Event

Quiz competitions are always interesting and informative, which provide excitement among the students. The main objective of this event to make them aware of recent general knowledge related to electronics.

●Brief information about the event

Electronics Subjects of Electronics and Communication engineering department had arranged quiz behalf of celebrations of Engineers day 2022. On the occasion of **MOKSHAGUNDAM VISVESVARAYA** birth anniversary. The Samskruti Group of Institution took decision to conduct an event on Engineers day. The Quiz was scheduled on 14 September 2022.

The Quiz was unique and it had two rounds. Rules and regulations of the quiz were explained at the beginning. Two-round competition includes Electronics Subject Objective, which engaged the students for one and half hour.

Winners of quiz competition are:

S. Mahesh & Team R. Ramya & Team

●Outcome of the Event:

It was very informative and knowledge enriching competition for the participants. Since it was a team based competition, it enhanced the team spirit of the participants.

Event Photographs



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

Name of the faculty	Max 5 Per Faculty		
	2022-23 (CAYm1)	2021-22 (CAYm2)	2020-21 (CAYm3)
Dr.Mude Sreenivasulu	2	4	4
Mrs.Kannan Vanisree	2	4	5
Dr. V.Sandeep Kumar	2	2	2
Mrs.Yellamelli Jalajakshi	2	1	2
Mrs.Manne Pavani	2	1	2
Mrs.Karne Deepa	0	1	2
DIVYA SESHABATTAR	1	0	1
KETHADI NAVEEN KUMAR	1	1	1
MUSTHAQ ALI MUBEEN MOHAMMAD	0	1	1
VAMSIKRISHNA JUPUDI	1	0	1
DIVYA DONTIREDDY	1	0	1
SAHITHI BITLA	0	1	1
THALAPALLY MRINALINI CHARAN	0	0	1
KANCHARANA PRASANTH	1	1	1
GALIPELLY SUSMITHA	0	1	1
MOUNICA GINNARAPU	1	1	2
CHUKKA RANJITH	2	1	2
NARESH DHONTHISARAM	2	1	2
ANUSHA KORE	0	1	1
SANGEETHA BALNE	1	1	1
PADMA LEELA KANAPARTHI	0	1	1
GANJI VEERAAIAH	2	1	2
SHILPA SAMARLA	0	1	1
MUDRAGADDA SHESHI REKHA	1	1	1
UPPU BHARADWAJA	0	1	1
KOTHAPALLY VINAYKUMAR	1	1	2
Latha Madhuri Nikkula	0	1	1
BODDULA SRAVANTHI	1	1	1
KURUMADDALI LEELA SANTHOSH	0	1	0

Dr. PRASAD VALLURU	1	1	1
Dr. TEJAVATH RAMAKRISHNA	1	1	0
Dr. J KALIAPPAN	1	1	0
Dr. MUCHETI SHIVA KUMAR	1	1	0
CHANDRASEKHAR PATTEM	1	1	1
ANUJA RATHLAVATH	1	2	0
Mr.R.JAWAHAR LAL	1	0	0
Mrs.ANANDITA GOSWAMI	1	0	0
Mr.V.SHANKER	1	0	0
Mr.ANUP TIWARI	1	0	0
Mr.K.GANESH	1	0	0
Sum	37.00	39.00	46.00
RF = Number of Faculty required to comply with 20:1 Student Faculty Ratio as per 5.1	18	18	18
Assessment [$3 \times (\text{Sum} / 0.5\text{RF})$]	12.33	13.00	15.33

Average assessment over 3 years: 13.55

5.7 Research and Development (30)

5.7.1 Academic Research (10)

Academic Year 2022 – 2023

Sl. No.	Title of Paper	Name of the Author	Name of Journal	Year of Publication	Link
1	EFFECTIVE POWER AND GROUND DISTRIBUTION SCHEME FOR DEEP SUBMICRION HIGH SPEED VLSI CIRCUITS	Mr. D. Naresh	Dogo Rangsang Research Journal (ISSN : 2347-7180)	December 2022	https://www.journal-dogorangsang.in/no_2_Online_22/105_de c.pdf

2.	EFFECTIVE POWER AND GROUND DISTRIBUTION SCHEME FOR DEEP SUBMICRION HIGH SPEED VLSI CIRCUITS	Mr. Ch. Ranjith	Dogo Rangsang Research Journal (ISSN : 2347-7180)	December 2022	https://www.journal-dogorangsang.in/no_2_Online_22/105_dec.pdf
3.	EFFECTIVE POWER AND GROUND DISTRIBUTION SCHEME FOR DEEP SUBMICRION HIGH SPEED VLSI CIRCUITS	Dr. V Sandeep Kumar	Dogo Rangsang Research Journal (ISSN : 2347-7180)	December 2022	https://www.journal-dogorangsang.in/no_2_Online_22/105_dec.pdf
4.	AN UNDERWATER IMAGE DEHAZING METHOD USING DARK CHANNEL PRIOR	Mr. Ch. Ranjith	Juni Khyat (ISSN : 2278-4632)	December 2022	http://junikhya.tjournal.in/no_2_Online_22/44_dec.pdf
5.	AN UNDERWATER IMAGE DEHAZING METHOD USING DARK CHANNEL PRIOR	Dr. V Sandeep Kumar	Juni Khyat (ISSN : 2278-4632)	December 2022	http://junikhya.tjournal.in/no_2_Online_22/44_dec.pdf
6.	AN UNDERWATER IMAGE DEHAZING METHOD USING DARK CHANNEL PRIOR	Mr. D. Naresh	Juni Khyat (ISSN : 2278-4632)	December 2022	http://junikhya.tjournal.in/no_2_Online_22/44_dec.pdf
7	AUTOMATICALLY PATHWAY FOR EMERGENCY VEHICLES USING ARDUINO & IR SENSORS	Dr. V Sandeep Kumar	Dogo Rangsang Research Journal (ISSN : 2347-7180)	January 2023	https://www.journal-dogorangsang.in/no_1_Online_23/29_jan.pdf
8	AUTOMATICALLY PATHWAY FOR EMERGENCY VEHICLES USING ARDUINO & IR SENSORS	Mr. D. Naresh	Dogo Rangsang Research Journal (ISSN : 2347-7180)	January 2023	https://www.journal-dogorangsang.in/no_1_Online_23/29_jan.pdf

9	AUTOMATICALLY PATHWAY FOR EMERGENCY VEHICLES USING ARDUINO & IR SENSORS	Mr. Ch. Ranjith	Dogo Rangsang Research Journal (ISSN : 2347-7180)	January 2023	https://www.journal-dogorangsang.in/no_1_Online_23/29_jan.pdf
10	RADIO CONTROLLED SMART PLANE DESIGN	Mr.G.Veeraiah	Dogo Rangsang Research Journal (ISSN : 2347-7180)	November 2022	https://www.journal-dogorangsang.in/no_2_Online_22/30_nov.pdf
11	RADIO CONTROLLED SMART PLANE DESIGN	Mrs.Manne Pavani	Dogo Rangsang Research Journal (ISSN : 2347-7180)	November 2022	https://www.journal-dogorangsang.in/no_2_Online_22/30_nov.pdf
12	RADIO CONTROLLED SMART PLANE DESIGN	Mrs.K.Vanisree	Dogo Rangsang Research Journal (ISSN : 2347-7180)	November 2022	https://www.journal-dogorangsang.in/no_2_Online_22/30_nov.pdf
13	IOT SYSTEM FOR AEROPONIC CHAMBER TEMPERATURE MONITORING	Mrs.K.Vanisree	Dogo Rangsang Research Journal (ISSN : 2347-7180)	October 2022	https://www.journal-dogorangsang.in/no_2_Online_22/49_oct.pdf
14	IOT SYSTEM FOR AEROPONIC CHAMBER TEMPERATURE MONITORING	Dr.M.Sreenivasulu	Dogo Rangsang Research Journal (ISSN : 2347-7180)	October 2022	https://www.journal-dogorangsang.in/no_2_Online_22/49_oct.pdf
15	IOT SYSTEM FOR AEROPONIC CHAMBER TEMPERATURE	Mr.K.Prasanth	Dogo Rangsang Research Journal (ISSN : 2347-7180)	October 2022	https://www.journal-dogorangsang.in/no_2_Online_22/49_oct.pdf

	MONITORING				
16	IOT SYSTEM FOR AEROPONIC CHAMBER TEMPERATURE MONITORING	Dr.M.Sreenivasulu	Dogo Rangsang Research Journal (ISSN : 2347-7180)	October 2022	https://www.journal-dogorangsang.in/no_2_Online_22/49_oct.pdf

Academic Year 2021 - 2022

Sl. No.	Title of Paper	Name of the Author	Name of Journal	Year of Publication	Web site
1.	SMART PREPAID ENERGY METER	Mrs.M.She shi Rekha	Dogo Rangsang Research Journal	August 2022	https://www.journal-dogorangsang.in/no_2_Online_22/109_aug.pdf
2.	SMART PREPAID ENERGY METER	Dr. M. Sreenivasulu	Dogo Rangsang Research Journal	August 2022	https://www.journal-dogorangsang.in/no_2_Online_22/109_aug.pdf
3.	SMART PREPAID ENERGY METER	Mr.K.Prasanth	Dogo Rangsang Research Journal	August 2022	https://www.journal-dogorangsang.in/no_2_Online_22/109_aug.pdf
4.	IOT BASED ON ELEGANT HOME AUTOMATION SYSTEM	Mrs.K.Vani sree	Juni Khyat (ISSN : 2278-4632)	August 2022	https://junikhyatjournal.in/no_2_Online_22/9_aug.pdf
5.	IOT BASED ON ELEGANT HOME AUTOMATION SYSTEM	Mr.G.Veeriah	Juni Khyat (ISSN : 2278-4632)	August 2022	https://junikhyatjournal.in/no_2_Online_22/9_aug.pdf

6.	IOT BASED ON ELEGANT HOME AUTOMATION SYSTEM	Mrs.Manne Pavani	Juni Khyat (ISSN : 2278-4632)	August 2022	https://junikhyatjournal.in/no_2_Online_22/9_aug.pdf
7	SMART RASPBERRY PI AND NODE MCU-BASED-AGRICULTURES SYSTEM	Mr. Ch. Ranjith	International journal of applied science engineering and management (ISSN:2454-9940)	December 2021	https://www.ijasem.org/ijaseadmin/upload/ijlbps_63cec_c3f47d67.pdf
8	SMART RASPBERRY PI AND NODE MCU-BASED-AGRICULTURES SYSTEM	Mr. D. Naresh	International journal of applied science engineering and management (ISSN:2454-9940)	December 2021	https://www.ijasem.org/ijaseadmin/upload/ijlbps_63cec_c3f47d67.pdf
9	SMART RASPBERRY PI AND NODE MCU-BASED-AGRICULTURES SYSTEM	Mrs.Y.Jalajakshi	International journal of applied science engineering and management (ISSN:2454-9940)	December 2021	https://www.ijasem.org/ijaseadmin/upload/ijlbps_63cec_c3f47d67.pdf
10	EMC CHIP-LEVEL DESIGN AUTOMOTIVE PRODUCTDESIGN	Dr. M. Sreenivasulu	International journal of applied science engineering and management (ISSN:2454-9940)	December 2021	https://www.ijasem.org/ijaseadmin/upload/ijlbps_63cec_a4602752.pdf
11	EMC CHIP-LEVEL DESIGN AUTOMOTIVE PRODUCTDESIGN	Mr.G.Veeriah	International journal of applied science	December 2021	https://www.ijasem.org/ijaseadmin/upload/ijlbps_63cec_a4602752.pdf

	N		engineering and management (ISSN:2454-9940)		
12	EMC CHIP-LEVEL DESIGN AUTOMOTIVE PRODUCT DESIGN	Mrs.K.Vani sree	International journal of applied science engineering and management (ISSN:2454-9940)	December 2021	https://www.ijasem.org/ijaseadmin/upload/ijlbps_63cec_a4602752.pdf
13	IOT BASED SAFETY AND POLLUTION CONTROL IN AUTOMOBILE	Mrs.Manne Pavani	Juni Khyat (ISSN : 2278-4632)	May 2022	http://junikhyatjournal.in/no_2_Online_22/7_may.pdf
14	IOT BASED SAFETY AND POLLUTION CONTROL IN AUTOMOBILE	Mrs.K.Vani sree	Juni Khyat (ISSN : 2278-4632)	May 2022	http://junikhyatjournal.in/no_2_Online_22/7_may.pdf
16	DEEP LEARNING BASED TRAFFIC SIGN	Mr.G.Veeraiyah	IJMECE (ISSN:2321-2152)	October 2021	https://www.ijmece.com/ijmeceadmin/upload/ijlbps_63ced8a74b0ca.pdf
17	DEEP LEARNING BASED TRAFFIC SIGN	Mrs.K.Vani sree	IJMECE (ISSN:2321-2152)	October 2021	https://www.ijmece.com/ijmeceadmin/upload/ijlbps_63ced8a74b0ca.pdf
18	DEEP LEARNING BASED TRAFFIC SIGN	Dr. M. Sreenivasulu	IJMECE (ISSN:2321-2152)	October 2021	https://www.ijmece.com/ijmeceadmin/upload/ijlbps_63ced8a74b0ca.pdf

19	DEEP LEARNING BASED BRAIN TUMOR DETECTION	Mrs.Y.Jalaj akshi	Juni Khyat (ISSN : 2278- 4632)	September 2022	http://junikhyatjournal.in/no_2_Online_22/22_sep.pdf
20	DEEP LEARNING BASED BRAIN TUMOR DETECTION	Mr.K.Vinay kurmar	Juni Khyat (ISSN : 2278- 4632)	September 2022	http://junikhyatjournal.in/no_2_Online_22/22_sep.pdf
21	DEEP LEARNING BASED BRAIN TUMOR DETECTION	Dr.V Sandeep Kumar	Juni Khyat (ISSN : 2278- 4632)	September 2022	http://junikhyatjournal.in/no_2_Online_22/22_sep.pdf
22	GARBAGE MONITORING SYSTEM USING IOT	Mr.K.Prasa nth	Dogo Rangsang Research Journal (ISSN:2347- 7180)	September 2022	https://www.journal-dogorangsang.in/no_2_Online_22/86_sep.pdf
23	GARBAGE MONITORING SYSTEM USING IOT	Mrs.M.She shi Rekha	Dogo Rangsang Research Journal (ISSN:2347- 7180)	September 2022	https://www.journal-dogorangsang.in/no_2_Online_22/86_sep.pdf
24	GARBAGE MONITORING SYSTEM USING IOT	Dr. M. Sreenivasu lu	Dogo Rangsang Research Journal (ISSN:2347- 7180)	September 2022	https://www.journal-dogorangsang.in/no_2_Online_22/86_sep.pdf

Academic Year 2020 - 2021

Sl. No.	Title of Paper	Name of the Author	Name of Journal	Year of Publication	Link
1.	SPI CONTROLLER FOR OPEN-POWERPROCESSOR BASED FABLESS SOC	Dr.V.Sandeep Kumar	International journal of applied science engineering and management (ISSN:2454-9940)	April 2021	https://www.ijaseem.org/ijasemadmin/upload/ijlbps_63ced5e6602f.pdf
2.	SPI CONTROLLER FOR OPEN-POWERPROCESSOR BASED FABLESS SOC	Mr.K.Vinay Kumar	International journal of applied science engineering and management (ISSN:2454-9940)	April 2021	https://www.ijaseem.org/ijasemadmin/upload/ijlbps_63ced5e6602f.pdf
3.	SPI CONTROLLER FOR OPEN-POWERPROCESSOR BASED FABLESS SOC	Dr. M. Sreenivasulu	International journal of applied science engineering and management (ISSN:2454-9940)	April 2021	https://www.ijaseem.org/ijasemadmin/upload/ijlbps_63ced5e6602f.pdf
4.	CONTACTLESS NOTICE BOARD	Mr.K.Prasanth	IJMECE (ISSN:2321-2152)	April 2021	https://www.ijmece.com/ijmeceadmin/upload/ijlbps_63ced0975fc85.pdf
5.	CONTACTLESS NOTICE BOARD	Mrs.M.Sheshi Rekha	IJMECE (ISSN:2321-2152)	April 2021	https://www.ijmece.com/ijmeceadmin/upload/ijlbps_63ced0975fc85.pdf

6.	CONTACTLESS NOTICE BOARD	Mrs.M.Sheshi Rekha	IJMECE (ISSN:2321-2152)	April 2021	https://www.ijmece.com/ijmeceadmin/upload/ijlbps_63ced0975fc85.pdf
7	CONTACTLESS NOTICE BOARD	Mrs.Manne Pavani	IJMECE (ISSN:2321-2152)	April 2021	https://www.ijmece.com/ijmeceadmin/upload/ijlbps_63ced0975fc85.pdf
8	IOT BASED PESTICIDE SPRAY DRONE IN AGRICULTURE	Dr. V Sandeep Kumar	IJMECE (ISSN:2321-2152)	April 2021	https://www.ijmece.com/ijmeceadmin/upload/ijlbps_63ced1bd682b8.pdf
9	IOT BASED PESTICIDE SPRAY DRONE IN AGRICULTURE	Mr.K.Vinay Kumar	IJMECE (ISSN:2321-2152)	April 2021	https://www.ijmece.com/ijmeceadmin/upload/ijlbps_63ced1bd682b8.pdf
10	IOT BASED PESTICIDE SPRAY DRONE IN AGRICULTURE	Dr. M. Sreenivasulu	IJMECE (ISSN:2321-2152)	April 2021	https://www.ijmece.com/ijmeceadmin/upload/ijlbps_63ced1bd682b8.pdf
11	CLASSIFICATION OF LEAF DISEASE USING CNN	Mrs.Y.Jalajakshi	International journal of applied science engineering and management (ISSN:2454-9940)	April 2021	https://www.ijaseem.org/ijasemadmin/upload/ijlbpr_63cec53abd81d.pdf
12	CLASSIFICATION OF LEAF DISEASE USING CNN	Mr. Ch. Ranjith	International journal of applied science engineering and management (ISSN:2454-9940)	April 2021	https://www.ijaseem.org/ijasemadmin/upload/ijlbpr_63cec53abd81d.pdf

13	CLASSIFICATION OF LEAF DISEASE USING CNN	Mr. D. Naresh	International journal of applied science engineering and management (ISSN:2454-9940)	April 2021	https://www.ijaseem.org/ijasemadmin/upload/ijlbpr_63cec53abd81d.pdf
14	POLLUTION & SAFETY OF VEHICLE USING IOT	Mrs.Manne Pavani	International journal of applied science engineering and management (ISSN:2454-9940)	Feb 2021	https://www.ijaseem.org/ijasemadmin/upload/ijlbps_63ceb2349f8c.pdf
15	POLLUTION & SAFETY OF VEHICLE USING IOT	Mr.K.Prasanth	International journal of applied science engineering and management (ISSN:2454-9940)	Feb 2021	https://www.ijaseem.org/ijasemadmin/upload/ijlbps_63ceb2349f8c.pdf
16	POLLUTION & SAFETY OF VEHICLE USING IOT	Mrs.M.Sheshi Rekha	International journal of applied science engineering and management (ISSN:2454-9940)	Feb 2021	https://www.ijaseem.org/ijasemadmin/upload/ijlbps_63ceb2349f8c.pdf
17	GSM BASED VEHICLE THEFT IDENTITY AND ENGINE CONTROL	Mrs.M.Sheshi Rekha	IJMECE (ISSN:2321-2152)	July 2021	https://www.ijmece.com/ijmeceadmin/upload/ijlbps_63ced397530a7.pdf
18	GSM BASED VEHICLE THEFT IDENTITY AND ENGINE CONTROL	Mrs.Manne Pavani	IJMECE (ISSN:2321-2152)	July 2021	https://www.ijmece.com/ijmeceadmin/upload/ijlbps_63ced397530a7.pdf
19	GSM BASED VEHICLE THEFT IDENTITY AND ENGINE CONTROL	Mr.K.Prasanth	IJMECE (ISSN:2321-2152)	July 2021	https://www.ijmece.com/ijmeceadmin/upload/ijlbps_63ced397530a7.pdf

20	SECURITY IN AD-HOC NETWORKS	Mrs.K.Vanisree	IJMECE (ISSN:2321-2152)	Mar 2021	https://www.ijmece.com/ijmeceadmin/upload/ijlbps_63ced53debf5d.pdf
21	SECURITY IN AD-HOC NETWORKS	Dr. M. Sreenivasulu	IJMECE (ISSN:2321-2152)	Mar 2021	https://www.ijmece.com/ijmeceadmin/upload/ijlbps_63ced53debf5d.pdf
22	SECURITY IN AD-HOC NETWORKS	Mr.G.Veeraiah	IJMECE (ISSN:2321-2152)	Mar 2021	https://www.ijmece.com/ijmeceadmin/upload/ijlbps_63ced53debf5d.pdf
23	PMOS BLASEDSENSE AMPLIFIER DESIGN WITH LOW POWER AND HIGH PERFORMANCE	Mr. D. Naresh	IJMECE (ISSN:2321-2152)	Sep 2021	https://www.ijmece.com/ijmeceadmin/upload/ijlbps_63ced60e0ef55.pdf
24	PMOS BLASEDSENSE AMPLIFIER DESIGN WITH LOW POWER AND HIGH PERFORMANCE	Mrs.Y.Jalajakshi	IJMECE (ISSN:2321-2152)	Sep 2021	https://www.ijmece.com/ijmeceadmin/upload/ijlbps_63ced60e0ef55.pdf
25	PMOS BLASEDSENSE AMPLIFIER DESIGN WITH LOW POWER AND HIGH PERFORMANCE	Mr. Ch. Ranjith	IJMECE (ISSN:2321-2152)	Sep 2021	https://www.ijmece.com/ijmeceadmin/upload/ijlbps_63ced60e0ef55.pdf

Publications in refereed/SCI Journal

Name of the author/s	Department of the Faculty	Name of journal	Year of publication	ISSN number	
Mude Sreenivasulu	ECE	Journal of Nuclear Energy Science & Power Generation Technology.	2021	ISSN 23259809	https://www.scitechnol.com/peer-review/user-mobility (https -science-with-intelligent-location-tracking (https://www.scitec -scheme-for-managing-nuclear-energy-nciX.pdf (https://ww

Book chapter

Name of the Faculty	Name of the Department	Title	Book chapter	Year of published
K.Vanisree	ECE	(Renewable Energy With IOT And Bio Medical Application)	ISBN : 978 - 81-952585 - 4 – 3 Book chapter	2021
K.Vanisree	ECE	Smart drowsiness detector to alert surgeons at the time of operating		

5.7.2 Sponsored Research (5)**2021-22 (CAYm1)**

Project Title	Duration	Funding Agency	Amount
NIL	0	0	0.00
			Total Amount(X): 0.00

2020-21 (CAYm2)

Project Title	Duration	Funding Agency	Amount
NIL	0	0	0.00
			Total Amount(Y): 0.00

2019-20 (CAYm3)

Project Title	Duration	Funding Agency	Amount
NIL	0	0	0.00
			Total Amount(Z): 0.00

Cumulative Amount(X + Y + Z) = 0.00

5.7.3 Development Activities (10)**Product Development**

Sl. No	Project to Prototype Development	Status
1	IOT Based smart notice board	Developed
2	Arduino based school bell system	Developed
3	Ultrasonic blind stick with GPS tracking	Developed
4	Density Based Traffic Signal System using Microcontroller	Developed
5	Smart solar tracking system for optimal power generation	Developed

Research Laboratories

Sl. No	Developed Research Laboratory
1	R & D and Project
2	ECE-Incubation
3	IOT Lab
4	VLSI and E-CAD Lab

Instructional materials

Lecture Notes related to all subjects are readily available in the form of course files and also a handbook is uploaded along with PPT in the College Website. Instruction material developed by Faculty

Power Point Presentation NPTEL Video Lecturers Lab manuals

Hand books Course files

Working models/charts/monograms etc.

Sl. No	Models/Charts
1	VLSI Design Flow Chart
2	VI Characteristics of PN Junction Diode Model
3	Architecture of 8086
4	Integrated Circuits
5	Fourier representation of Signal classes
6	Microwave components
7	VI Characteristics of UJT Model
8	Microwave Bench setup

5.7.4 Consultancy (from Industry) (5)**2021-22 (CAYm1)**

Project Title	Duration	Funding Agency	Amount
NIL	0	0	0.00
			Total Amount(X): 0.00

2020-21(CAYm2)

Project Title	Duration	Funding Agency	Amount
NIL	0	0	0.00
			Total Amount(Y): 0.00

2019-20 (CAYm3)

Project Title	Duration	Funding Agency	Amount
NIL	0	0	0.00
			Total Amount(Z): 0.00

Cumulative Amount(X + Y + Z) = 0.00

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

Faculty members of Higher Educational Institutions today have to perform a variety of tasks pertaining to diverse roles. In addition to instruction, faculty Members need to innovate and conduct research for their self-renewal, keep abreast with changes in technology, and develop expertise for effective implementation of curricula. They are also expected to provide services to the industry and community for understanding and contributing to the solution of real life problems in industry. Another role relates to the shouldering of administrative responsibilities and co-operation with other faculty, Head of the departments and the Head of Institute. An effective performance appraisal system for Faculty is vital for optimizing the contribution of individual faculty to institutional performance.

The assessment is based on:

1. A well-defined system for faculty appraisal for all the assessment years.
2. Its implementation and effectiveness.

The parameters considered for the appraisal **Teaching Learning and Evaluation.**

Assessment is based on the number of hour's lectures, practical's, performance index, additional lectures, academic duties, innovative teaching learning methods, student feedback, Examination duties assigned and performed.

Curricular Activities Extension and Professional Development

Assessment is based on the Paper Published in Journal, Book, Articles and Conference Proceedings, Research Projects & consultancies, Research Guidance & Qualification, Patent/ IPR, Memberships in various Professional

Fig: Sample Appraisal Form

	SAMSKRUTI COLLEGE OF ENGINEERING & TECHNOLOGY (Approved by AICTE, New Delhi & Affiliated to JNTUH.) Kondapur(V), Ghatkesar(M), Medchal(Dist)	
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SELF-APPRAISAL FORM FOR TEACHING FACULTY

(Questions are formulated to assess your views / thinking / decision making power, read them carefully and answer without bias)

ACADEMIC YEAR: 2020 -2021

(To be filled by each faculty member: Please attach extra sheets wherever required)

1. Name
2. Date of Birth..... Age
3. Designation.....Department
4. Date of joining the College.....Date of joining the Present Post.....
5. Academic Qualification.....
6. Subject of Interest / Specialization.....
7. Details of Teaching Experience:

	With B.Tech Qualification	With M.Tech Qualification	With P.hD Qualification	Total
Before Joining SCET				
After Joining SCET				
Total				

8. Work load/week in Hrs: - **SEM – I (20-21)**. a) Theory..... b) Practical/Project..... c) Total.....
SEM – II (20-21). a) Theory b) Practical/Project c) Total

9. Subjects Handled & Pass Percentage: **SEM – I – (Nov / Dec - 2020)**

THEORY

Sl. No.	Class	Subject Code & Title	Appeared	Passed	% Result	Students Feedback Rating

LABORATORY:

Sl. No.	Class	Subject Code & Title	Appeared	Passed	% Result	Students Feedback Rating

10. Subjects Handled & Pass Percentage: SEM–II (April / May - 2021)

THEORY

Sl. No.	Class	Subject Code & Title	Appeared	Passed	% Result	Students Feedback Rating

LABORATORY:

Sl. No.	Class	Subject Code & Title	Appeared	Passed	% Result	Students Feedback Rating

11. Project Guidance:

S.No	Project Title	Mini/ Major Project

12. Publication of Research Papers in Reputed Journals / International Conferences/Patent
(Attach a copy of the publication)

Sl. No.	Title of the Paper	Date / Month / Year	Name of the Journal / Conference	Name and Place / Volume No. Issue No. & Page No.	SCI/SCOPUS/UGC

13. Participation in Workshops / Conferences / FDP's / STTP's / Seminars and Special Programs, if any

Sl. No.	Title of Workshop / Conference / Seminar / FDP / STTP / Special Programs	Dates	No. of Days	Organization	Have you submitted the report

14. Membership in Professional Bodies

Sl.No.	Name of the Professional Body with Address	Annual / Life Member	Membership No.

15. INVEST IN YOURSELF

(Details of the Online Courses Completed)

Sl. No.	Title of the Course	Start Date	End Date	Number of Weeks	Platform	Date of Exam	Have you Received the Certificate (Yes / No)

* Specify the Outcome and achievements of any.

16. Are you improving your Qualification: **Yes / No**

If Yes, provide the following details:

Sl. No.	Degree Registered	Specialization	University	Duration	Status	Whether obtained NOC from the Institution

17. Contribution for the Development of the Department / Institution

A) Organizing Workshops / Conferences / Seminars / Guest Lectures / Symposium / Special Programs, If any

Sl. No.	Title	Period	Details of the Resource Person	For whom the program is organized	Specify the Outcome of the event

B) Contribution towards submission of Funding Proposal / Testing & Consultancy*

Sl. No.	Specify your role (PI / CO-I)	Funding Agency & Scheme	Project Title	Fund Requested in Rs.	Date of Submission	Status / Outcome of the Proposal

C) Involvement in Placement Activities/ Department Development/ Students Welfare/ Mentoring / Counseling / Special efforts, if any

Sl.No.	Description of Activity	Specify your role	Outcome of this activity	Whether records are maintained

D) Contribution towards ISO /NAAC/ NBA / Lab Development / Special efforts as a Class Advisor & Academic Coordinator

Sl. No.	Specify Your role	Description	Highlight theOutcome

E) Contribution towards R&D / EDC / SIC / Alumni / IIPC / Sports / NSS / Others, if any (Points are based on the performance status with evidence)

Sl. No.	Specify Your role	Description	Highlight theOutcome

F) Specify your Role / Contribution, if any other than the above

Declaration

I certify that the details given above are correct to the best of my knowledge and belief.

Date:

Signature of the Faculty

Assessment of faculty member by HOD/Principal

1	Initiative: a self starter, able to work without constant supervision	
2	Responsibility, Understands duties; accepts responsibilities readily	
3	Punctuality: arrives on time. Generally available for students during working hours.	
4	Committed to his/her work.	
5	Loyalty: supports and follows institute's policies and guidelines.	
6	Oral & Written Communication.	
7	Willingness to accept new tasks and effective completion.	
8	Relationship with fellow faculty and staff	
9	Relationship with students	

HOD**Principal's Remarks:**

His / Her contribution to be appreciated and recommended / Satisfactory performance / Potential underutilized /
Counseling is required / Performance improvement is desired / to be warned.

Any other remarks / directives
.....
.....
.....

Date:**PRINCIPAL**

5.9 Visiting/Adjunct/Emeritus Faculty etc. (10)**Visiting Faculty during 2021-2022**

S.No	Name	Designation
1	Mr. J.Sunil Kumar	Assistant Professor, ECE, VMTW ,HYD
2	Mr S.Rajender Kumar	Associate Professor, ACE, HYD
3	Mr. K. Ashok Reddy Assistant Professor	Assistant Professor, ECE, VMTW ,HYD

Visiting Faculty during 2020-2021

S.No	Name	Designation
1	Mr. Rambabu Atmakuri	Assistant Professor
2	P.Surender Babu	Project Manager TLC
3	Dr P.Lova Kumar	Sr.Manager in Regional Telecommunication Training Center, BSNL

Visiting Faculty during 2019-2020

S.No	Name	Designation
1	Dr.Y.Srinivas HOD & Professor	Professor, ECE, VBIT ,HYD
2	P.Surender Babu	Project Manager
3	Dr P.Lova Kumar	Sr.Manager in Regional Telecommunication Training Center, BSNL

6 FACILITIES AND TECHNICAL SUPPORT (80)**6.1 Adequate and well equipped laboratories, and technical manpower (30)**

S. No	Name of the Laboratory	Number of students per set up(Batch Size)	Name of the Important Equipment	Weekly utilization status(al l the courses for which the lab is utilized)	Technical Manpower Support		
					Name of the Technical staff	Designation	Qualification
1	BASIC SIMULATION LAB	1	MATLAB or equivalent software	4	Ms.R.Sinduja	Lab Assistant	B.Tech
2	DIGITAL SYSTEMDESIGN LAB	3	Bread Boards / GeneralPurpose IC Trainee Kits	4	Ms.P.Deepika	Lab Assistant	B.Tech
3	ELECTRONICDEVICES ANDCIRCUITS LAB	3	Cathode Ray Oscilloscope,F unction Generator	4	Ms.D.Sandhya	Lab Assistant	B.Tech
4	ANALOG AND DIGITALCOMMUNICATIONS LAB	3	Cathode Ray Oscilloscope,S pectrum Analyzer	4	Ms.D.Sandhya	Lab Assistant	B.Tech
5	ELECTRONIC CIRCUITANALYSIS LAB	3	Cathode Ray Oscilloscope,F unction generator	4	Ms.R.Sinduja	Lab Assistant	B.Tech
6	IC APPLICATIONS LAB	3	Cathode Ray Oscilloscope,F unction generator	4	Ms.P.Deepika	Lab Assistant	B.Tech
7	DATACOMMUNICATIONSAND NETWORKS LAB	1	No Of Computers:30 Configuration: Intel Core i5processor with	4	Ms.R.Sinduja	Lab Assistant	B.Tech

			8GBRAM, 250 GB SSD				
8	MICROPROCESSOR S & MICROCONTROLLE RS LAB	3	8086kits, 8051kits	4	Mrs.N.S ai Priya	Lab Assist ant	B.Tec h
9	DIGITAL SIGNALPROCESSIN G LAB	1	No Of Computers:30 Configuration: Intel Core i5processor with 8GBRAM, 250 GB SSD	4	Mrs.N.S ai Priya	Lab Assist ant	B.Tec h
10	e – CAD LAB	1	No Of Computers:30 Configuration: Intel Core i5processor with 8GBRAM, 250 GB SSD	4	Ms.D.Sa ndhya	Lab Assist ant	B.Tec h
11	MICROWAVE ANDOPTICALCOM MUNICATIONSLAB	3	Microwave Test Bench Setup,DSO	4	Ms.P.De epika	Lab Assist ant	B.Tec h

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

S. No	Facility Name	Details	Reason(s) for creating facility	Utilization	Areas in which students are expected to have enhanced learning	Relevance to POs/PSOs
1	IOT Laboratory	build circuits and control their working using Arduino board or Raspberry Pi board. To use sensors to read and sense analog signals from the environment and program actuators to perform the desired action.	To create a conducive environment for student to build solutions for open ended problems.	Open to all Research scholars and UG students .	Arduino IDE Programming, Python Programming , Circuit building	PO1, PO3, PO4, PO5, PO9, PO12,PSO1 ,PSO2
2	XILINX ZYNQ evaluation Boards	ZYNQ ZC702 Evaluation Board. ZYNQ ZC706 Evaluation Board. Vivado Design Suite. Vivado SDSOC	To Provide required resources to carryout Research work and Academic Projects	Open to all Research scholars and UG students	Embedded system VLSI Design	PO1, PO3, PO4, PO5, PO9, PO12,PSO1 ,PSO2
3	Modulation Function-Pulse Generator	Quantity: 06 10 MHz with Frequency counter, 40 MHz External Frequency Counter, AM Standard, AM Balance, FM, ASK, FSK & PWM modulations.	Facility for project work in communication systems	Open to all Research scholars and UG students	Communication systems	PO1, PO3, PO4, PO5, PO9, PO12,PSO1 ,PSO2

4	Arbitrary waveform generator	Rigol DG3101 function / arbitrary waveform generator 100 MHz / 300 MSa/s.	Facility for Research work in RF applications	Open to all Research scholars and UG students	Communication systems	PO1, PO3, PO4, PO5, PO9, PO12, PSO1, PSO2
5	Development Boards	DM 642 high performance video & imaging development platform XDS510 USB JTAG EMULATOR Work station	Facility for Research work in Signal processing	Open to all Research scholars and UG students	Signal Processing	PO1, PO3, PO4, PO5, PO9, PO12, PSO1, PSO2

6.3 Laboratories: Maintenance and overall ambience (10)

Maintenance of Laboratory Equipment:

1. A regular assessment of computers/equipment is carried out at the end of every semester.
2. Calibration of the instruments is carried out whenever essential.
3. Maintenance register is maintained in the laboratories.
4. As per the requirement, minor repairs are carried out in-house.
5. Major repairs are outsourced as per the procedure of the institute.
6. All computer/equipment labs are well equipped and ventilated and Supported by Uninterrupted Power Supply (UPS) which ensures that all laboratory slots are utilized effectively.

Overall Ambience

1. The department has enough labs which are used for all the years on the time table basis to meet the curriculum requirements
2. Conditions of chairs/benches are good. Chairs are provided for individual student's in Labs.
3. Labs are equipped with sufficient equipment/hardware and licensed/Open Source software to run specific curriculum.
4. Sufficient number of windows is available for ventilation and natural light and every lab has one exit.
5. The lighting system is very effective, along with the natural light in every corner of the rooms.

6. Each Lab is equipped with white/black board.
7. Research laboratory is available for all faculty and students to carry research work.
8. Feedback is taken in every semester from the faculty and students with respect to the laboratory facilities, based on these feedback necessary actions are taken.
9. House Keeping is outsourced and it will be done regularly.
10. The cleanliness of the laboratory is maintained every day.
11. Safety Measures are displayed.

Laboratory Pics



List of Laboratories

S.No	Name of the Lab	Area in Sq M	Periodic Maintenance
1	Electronic Devices and Circuits Lab	66	Weekly Once
2	Digital System Design Lab	66	Weekly Once
3	Basic Simulation Lab	66	Weekly Once
4	Analog and Digital Communications Lab	66	Weekly Once
5	IC Applications Lab	66	Weekly Once
6	Electronic Circuit Analysis Lab	66	Weekly Once
7	Microprocessors & Microcontrollers Lab	66	Weekly Once
8	Data Communications and Networks Lab	66	Weekly Once
9	Digital Signal Processing Lab	66	Weekly Once
10	e – CAD Lab	66	Weekly Once
11	Microwave and Optical Communications Lab	66	Weekly Once

6.4 Project laboratories (5)

Research plays an important role in the educational experience and provides practical skills for future employment of engineering students. The objective of this lab is to motivate and encourage students to do in-house project. This lab provides a place where the students can make & assemble their final year projects while working in groups. In-housed projects help junior students in stimulating their thinking to explore ideas for their forthcoming final year projects. Management took initiation and developed Incubation center at SCET, it is a multidisciplinary student project lab, which supports student to design, build, assemble, test, and disseminate innovative solutions, thus preparing students for job readiness, lifelong problem solving, and leadership in the global community.

Laboratory Facilities for student's projects.

Laboratory experience is an indispensable part of the educational process and a key factor in preparing students for real engineering practical life. For this reason, the ECE Department is having a separate project laboratory within its premises. All the laboratories are equipped with state of the art tools and facilities that provide hands-on practice for students.

Professional personnel are always available to give help and support to students in projects and experiments. Hence a free access policy beyond the regular lab hours in a safe and secure environment for experimentation and research is one of the privileges enjoyed by the students.

Project work is carried out among the existing laboratories. Some of the software's available for the project laboratory are:

Project Laboratories

The department is equipped with project laboratory with an area of 66 Sq.m. Project laboratory consists of well configured computer systems.

Systems are equipped with licensed and student versions of PSPICE, MATLAB, Keil & Xilinx and the students have free access to the lab during their project period. All the systems in the laboratory are provided with the internet and the students can utilize the facility during their course of project work. Student project models are displayed in the project laboratory.

List of Facilities in Project Lab:

S. No.	Name of the Facilities	Utilization
1.	Matlab 2015 version software in DSP lab	UG students and Faculty members utilize for their mini and major projects and research activities.
2.	VLSI – Mentor Graphics licensed software in VLSI Lab	UG students and Faculty members utilize for their mini and major projects and research activities.

3.	Keil micro vision student version software tool and Microcontroller8051	UG students and Faculty members utilize for their mini and major projects and research activities.
4.	Microwave components in communication system Lab	UG students and Faculty members utilize for their mini and major projects and research activities.
5.	Xilinx licensed version software for designing and verifying codes of digital logic	UG students and Faculty members utilize for their mini and major projects and research activities.
7.	P-Spice student version software for implementation of power circuits.	UG students and Faculty members utilize for their mini and major projects and research activities.

6.5 Safety measures in laboratories (10)

Sr. No	Laboratory Name	Safety Measures
1	BASIC SIMULATION LAB	1.All electrical wires are protected by MCB , stabilizer and Fuses etc 2.All the cable wires are properly trench to avoid trip off 3.Do not operate switches with wet hands 4. The Systems are arranged in the lab in a way that student can feel comfortable in doing program. 5. Servers are properly managed in the laboratories with all The necessary Software. 6. First aid kit is available.
2	DIGITAL SYSTEM DESIGN LAB	1.Wear shoes and Aprons in the laboratories 2. All electrical wires are protected by MCB , stabilizer and Fuses etc.. 3. Proper earthing is provided to avoid Electric shock. 4.All the cable wires are properly trench

		to avoid trip off 5. Do not operate switches with wet hands
3	ELECTRONIC DEVICES AND CIRCUITS LAB	1.Wear shoes and Aprons in the laboratories 2.All electrical wires are protected by MCB, stabilizer and Fuses etc., 3.Proper earthing is provided to avoid Electric shock. 4.All the cable wires are properly trench to avoid trip off 5.Do not operate switches with wet hands 6. First aid kit is available.
4	ANALOG AND DIGITAL COMMUNICATIONS LAB	1.Wear shoes and Aprons in the laboratories 2.All electrical wires are protected by MCB , stabilizer and Fuses etc., 3.Proper earthing is provided to avoid Electric shock. 4.All the cable wires are properly trench to avoid trip off 5.Do not operate switches with wet hands 6. First aid kit is available.
5	ELECTRONIC CIRCUIT ANALYSIS LAB	1.All electrical wires are protected by MCB , stabilizer and Fuses etc 2.All the cable wires are properly trench to avoid trip off 3.Donot operate switches with wet hands 4. The Systems are arranged in the lab in a way that student can feel comfortable in doing program. 5. Servers are properly managed in the laboratories with all the necessary Software. 6. First aid kit is available
6	IC APPLICATIONS LAB	1.Wear shoes and Aprons in the laboratories 2. All electrical wires are protected by MCB , stabilizer and Fuses etc. 3. Proper earthing is provided to avoid Electric shock. 4.All the cable wires are properly trench to avoid trip off 5. Do not operate switches with wet hands6. First aid kit is available

7	DATA COMMUNICATIONS AND NETWORKS LAB	1. General rules of conduct & Safety Rules are displayed. 2. Fire extinguishers are provided according to the applicability. 3. First aid kit is provided. 4. Extension cable earth. 5.UPS. 6. Maintain a clean and organized laboratory. 7. Appropriate storage areas. 8. Avoiding the use of damaged equipment and provides need full equipment and components.
8	MICROPROCESSORS & MICRO CONTROLLERS LAB	1. All electrical wires are protected by MCB, stabilizer and Fuses etc. 2.All the cable wires are properly trenched to avoid trip off 3.Do not operate switches with wet hands 4. The Systems are arranged in the lab in a way that Student can feel comfortable in doing program. 5. Servers are properly managed in the laboratories with all the necessary Software. 6. First aid kit is available.
9	DIGITAL SIGNAL PROCESSING LAB	1.All electrical wires are protected by MCB , stabilizer and Fuses etc 2.All the cable wires are properly trench to avoid trip off 3.Donot operate switches with wet hands 4. The Systems are arranged in the lab in a way that student can feel comfortable in doing program. 5.Servers are properly managed in the laboratories with all the necessary Software 6. First aid kit is available
10	e – CAD LAB	1.All electrical wires are protected by MCB , stabilizer and Fuses etc 2.All the cable wires are properly trench to avoid trip off 3.Donot operate switches with wet hands 4. The Systems are arranged in the lab in a way that student can feel comfortable in doing program. 5. Servers are properly managed in the laboratories with all the necessary software. 6. First aid kit is available

11	MICROWAVE AND OPTICAL COMMUNICATIONS LAB	1. Students are not allowed to look into the open end of a Waveguide or transmission line. 2. Wear shoes and Aprons in the laboratories. 3. All electrical wires are protected by MCB, stabilizer and Fuses etc. 4. Proper earthing is provided to avoid Electric shock. 5. All the cable wires are properly trench to avoid trip off. 6. Do not operate switches with wet hands. 7. First aid kit is available.
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7. CONTINUOUS IMPROVEMENT (50)**7.1 Action taken based on the results of evaluation of each of the POs and PSOs****POs Attainment Levels and Actions for Improvement- (2020-21)**

POs	Target Level	Attainment Level	Observations
PO 1 : Engineering Knowledge			
PO 1	1.75	1.77	Electronics and Communication engineering curriculum requires the strong foundation of theoretical and practical knowledge of science and mathematics, which the students study in their first year and are able to apply and correlate well over the next years. A marginal gap is observed in the previous years and subsequently we have improved the above target level.
1. Mathematical analysis of engineering problems based seminar and guest lectures are encouraged, so that students can learn fundamental concepts and be able to apply them in problem solving. 2. Semiconductor theories and communication systems with analytic and fundamental law explanation are conducted as content beyond the syllabus to understand the basic electronics and communication concept.			
PO 2 : Problem Analysis			
PO 2	1.75	1.73	The students are able to understand and analyze the text book literature but we have observed them lagging in amalgamating their knowledge with state of art research. A marginal gap is observed in the previous years and subsequently attainment level is observed to improve the above target level.
1.Industrial visits are organised d to help the students gain knowledge on complex engineering problems 2.Students are encouraged to observe their residential surroundings to gain insight into real life engineering problems and think of possible approaches/solutions to these problems. 3. Research oriented final year B.Tech Projects are encouraged to develop their research skills.			

PO 3 : Design/development of Solutions			
PO 3	1.75	1.62	The minor and major projects developed by the Final year students are not industry compatible in terms of economy. A marginal gap is observed in the previous years and subsequently attainment level is observed to improve the above target level.
1. Students are motivated to include all standard parameters and constraints according to national and International safety norms and to address environmental concerns, while focusing on innovative designs of their projects			
PO 4 : Conduct Investigations of Complex Problems			
PO 4	1.75	1.36	It is observed that most of the project abstracts and literature survey are addressing the research based approach but does not end with valid conclusions due to the following reasons: 1. Lack of knowledge in methodical area and 2. Courses required being included and syllabi updated to include and inculcate the analysis and research skills. A marginal gap is observed in the previous years and subsequently attainment level is observed to improve the above target level.
1. Additional classes are to be conducted to signals and systems, Electronic Circuit Analysis, EMTL, Digital Signal Processing and VLSI subjects 2. Hands on training is required to apply more knowledge in terms of conduction of experiments and analyzing the results. 3. More problems are to be given for practice to the students.			
PO 5 : Modern Tool Usage			
PO 5	1.75	1.59	1. It is observed that the Up-gradations of tools and resources are necessary to meet the industry standards and research. 2. Students need these techniques for the better placement and/or higher studies 3. To overcome the Inadequate knowledge in

			modern engineering technology the students should adopt the advanced technical skills. A marginal gap is observed in the previous years and subsequently attainment level is observed to improve the above target level.
1. Additional classes are to be conducted to introduce practical knowledge. 2. Procurement of modern and state-of-the-art equipment in the laboratories and allow the students to expose to the applicability and use of these by making them work on these modern equipment. 3. Students are taught with modern modes and methods of teaching like using LCD Projectors, digital boards and learning in smart class rooms equipped with real time lecture webcast/broadcast facilities			
PO 6 : The Engineer and Society			
PO 6	1.75	1.54	1. Most of the students do not consider social issues in their habits or study environment. 2. Always the students are not aware that they are the part of the common society and they are destined to serve the society 3. The courses of Electronics and Communication engineering are addressing the needs of, health, safety and social concerns regarding engineering practices in real life. A marginal gap is observed in the previous years and subsequently attainment level is observed to improve the above target level.
1.To understand the safety concerns and social aspects, the students had visited the industry to expand their practical knowledge with the effect of improved practices in engineering. 2.Encouraged students to take part in NSS Programs like Swachh Bharat drives, Haritha Haram, Blood Donation Camps, Village visits, voluntary teaching and mentoring of downtrodden children. 3.Awareness programs on road safety, yoga etc has been organized in college.			

PO 7 : Environment and Sustainability			
PO 7	1.75	1.59	1. The issues of global and environmental awareness among the student should be improved. 2. Students are not properly concerned with the environmental issues. 3. Students lack the understanding that technological development cannot sustain without environmental concern. A marginal gap is observed in the previous years and subsequently attainment level is observed to improve the above target level.
1. Students are encouraged to indulge in projects, in which global and environmental issues are improved, with respect to consumption of energy and utilization of renewable energy resources. 2. Courses that deal with environmental and sustainability issues have been introduced with the aim of understanding the impact of professional engineering solutions in societal and environmental contexts and understanding the need for bringing about sustainability in overall development. 3. The activity like Tree Plantation has organized to encourage the students for understanding the responsibility towards environment. 4. Energy conservation is practiced by the installation of solar power panel.			
PO 8 : Ethics			
PO 8	1.75	1.78	1.The students are doing better in improving the overall expertise in field of engineering but due to less stress on communications and ethical/ moral knowledge, there is some lagging. 2. Create responsibilities on engineering ethics to engineers.A marginal gap is observed in the previous years and subsequently we have improved the above target level.
1. Students are motivated and made aware about the demands of engineering profession, duties towards society & fellow human beings and importance of honesty and ethics. 2. Lectures and awareness/ motivational programmes are conducted. Career readiness program, corporate lectures and motivational talks are arranged to overcome the above observations. 3. To encourage students to Participation in Co-			

Curricular activities and Games and promote commitment to ethical principles and an understanding of sportsmanship and that participation is more important than winning.

PO 9 : Individual and Team Work

PO 9	1.75	1.77	1. Students find difficult to solve the application oriented/practical engineering problems. 2. Sometimes, absence of correlation among the team members during the project work.
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1. Institute has initiated Program which provides a platform to work in individual as well as a group in the fields of Engineering. It helps the students to groom the skills like leadership or as an effective team member. There are a number of societies and clubs where the students learn to work both as individuals and in a team work environment.

2. The laboratory work of the students is conducted by framing student groups so that students learn to work in a team environment. 3. The final year project work is conducted by first making student groups in which students with different abilities are included (decided on the basis of CGPA). These groups are allotted to faculty members as per the area-preference given by the students. This helps students to learn to work with team members of different capabilities and background.

PO 10 : Communication

PO 10	1.75	1.47	Moderate communication and presentation skill due to rural background of the students. A marginal gap is observed in the previous years and subsequently attainment level is observed to improve the above target level.
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1. Soft skills training is imparted to students to enhance various aspects of communication/technical talks by group discussions, presentations and new learning outcomes. 2. Regular instructions are communicated to the students about preparing project reports and making presentations. 3. Students that are seen to be weak in communication skills are encouraged to utilize language lab for improving their communication skills.

PO 11 : Project Management and Finance

PO 11	1.75	1.58	1. Few courses of curriculum give knowledge of Management principle and applying managerial principles to his/her work including financial implications and to manage the project in multidisciplinary environments. 2. Some students are unaware of the impact of project management in Electronics and Communication engineering. A marginal gap is observed in the previous years and subsequently attainment level is observed to improve the above target level.
1. The awareness is created among the students regarding the management principles and managing projects.			
PO 12 : Life-long Learning			
PO 12	1.75	1.47	1. Courses of the program demonstrates the resource for contemporary issues and lifelong learning 2. Some students are not aware that learning is a never ending process which needs to be carried out through the concept of subjects taught in their engineering courses. A marginal gap is observed in the previous years and subsequently attainment level is observed to improve the above target level.
1. Students are made to recognize the importance of lifelong learning through pep/ motivational talks and programmes. 2. Existence of chapters of professional bodies/ societies like ISTE, IETE etc and events under the banner of these societies gives students opportunity to have a lifelong learning			

PSOs Attainment Levels and Actions for Improvement- (2020-21)

PSOs	Target Level	Attainment Level	Observations
PSO 1 : Professional skills: Apprehend and analyze specific engineering problems of communication & electronics circuits, signal processing and semiconductor technology by applying the knowledge of basic sciences, engineering mathematics and engineering fundamentals.			
PSO 1	1.75	1.74	It is observed that the students are facing problem for the development of the real time products after their projects. A marginal gap is observed in the previous years and subsequently attainment level is observed to improve above target level.
1. Add on Course on Embedded Systems, VLSI has been conducting for IV year Students. More subjects need to be added as Add on Course. 2. Real time examples should be included in Core subjects 3: Guest talk / workshop/Seminar should be conducted to improve the student knowledge levels in the design aspects.			
PSO 2 : Design and developing skills: Ability to design and implement the acquired technical knowledge with proficiency in logical programming for applications in electronics & communication engineering			
PSO 2	1.75	1.68	It is observed that required to inculcate electronic tools for improve the project implementation skills. There is gradual improvement in attainment levels to meet the target in near future. A marginal gap is observed in the previous years and subsequently attainment level is observed to improve above target level.
1. Motivational lectures are arranged to encourage students to learn the software coding. 2. Virtual labs training given for DSP lab, e-CAD design lab and scripting language lab.			

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

Every year at the end of the semester, the institution underwent an academic and administrative audit. The goal of the audit is to give the institution a chance to regularly review its entire performance from a strategic perspective. The members of the external peer team received presentations of the Self Evaluation Reports from each Department. The members of the peer team looked into the many facets of the provided documents and verified them using the relevant evidence. This report summarizes and concludes and identifies potential areas for future development.

To be audited are the following files:

S.No	Description
1	Course file- Lesson plan, Time table, Course Outcomes and Question Papers
2	Feedback on curriculum enrichment (Feedback from all stake holders)
3	Teaching and Non-Teaching Personal files
4	Faculty Publication
5	Details of Consultancy Activities
6	Internal Test Analysis
7	End Semester Exam Result Report
8	Feedback on Teaching Learning process
9	Remedial classes for slow learners
10	All lab Maintenance, stock register, stock verification record and calibration
11	Lab Records
12	Library Books with Register
13	Infrastructure
14	Faculty development Initiatives
15	Professional Society Activities
16	Minutes of Staff Meeting
17	MOUs

7.3 Improvement in Placement, Higher Studies and Entrepreneurship (10)**HIGHER STUDIES:****A.Y. 2021-2022**

S. No	Candidate Name	Examination	Score /Rank	Outcome of the Examination
1	V. Amruth Raj Kumar	IELTS	7.0	M.S
2	Ch Shiva Prasad Reddy	Duolingo	120	M.S
3	Srikanth Kakollu	GRE	163	M.S

A.Y. 2020-2021

S. No	Candidate Name	Examination	Score /Rank	Outcome of the Examination
1	Ankarala Deekshitha	PGECET	480	M.TECH
2	Prathyusha Vemula	IELTS		M.S
3	Bade Himavarshini	PGECET	1322	M.S

A.Y. 2019-2020

S. No	Candidate Name	Examination	Score /Rank	Outcome of the Examination
1	Yashaswini Vardhamanukota	CSCI	237	M.S
2	Varshith Reddy Budda Reddy	GRE	-	M.S
3	Mamtha Reddy Pasham	IELTS	6.0	M.S
4	Ashwini Regatte	GRE	260	M.S

A.Y. 2018-2019

S. No	Candidate Name	Examination	Score /Rank	Outcome of the Examination
1	MOKALA SANDEEP REDDY	TOEFL	99	M.S
2	RANKODU SRAVANI	PGECET	1047	M.TECH
3	SARAF UDAYKUMAR	IELTS	135	M.S
4	KATA KIRAN KUMAR	IELTS	130	M.S

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

ITEM		2021-22	2020-21	2019-20
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 TSEAMCET	No of students admitted	78	63	75
	Opening Score/Rank	39800	34275	24569
	Closing Score/Rank	121359	85621	99113
Name of the Entrance Examination for Lateral Entry or lateral entry details TSECET	No of students admitted	12	30	27
	Opening Score/Rank	835	723	1240
	Closing Score/Rank	3671	3527	4283
Average CBSE/Any other board result of admitted students(Physics, Chemistry & Maths)		66	70	64

8 FIRST YEAR ACADEMICS (50)**8.1 First Year Student-Faculty Ratio (FYSFR) (5)**

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

Name of the Faculty member	PAN No.	Qualification	Date of Receiving highest degree	Area of specialization	Designation	Date of joining	Teaching load (%)			Currently Associated (yes / No)	Nature of Association (Regular / Contract)	Date of leaving (in case Currently Associated is 'No')
							CA Y	CA Ym 1	CA Ym 2			
Dr. MIDTUR RAJESH WARAREDDY	AOGPM 7149J	PH.D	20/02/2020	Operational Research	Associate Professor	29/06/2018	75	75	75	YES	REG	
MOTAKARI RANJIT KUMAR	ALEPM 5210F	M.SC	26/10/2008	Pure Mathematics	Assistant professor	01/04/2022	75	0	0	YES	REG	
VIJAYA JYOTHI	AWIPB 9416F	M.SC	15/04/2007	Mathematics	Assistant professor	02/07/2013	50	50	50	YES	REG	
RAGEERU PANDU	BKDPR 8292M	M.SC	18/04/2012	Applied Mathematics	Assistant professor	02/06/2014	50	50	50	YES	REG	
RUPALA KSHMI DHARAN IKOTA	CEHPR 2291K	M.SC	28/09/2005	Mathematics	Assistant professor	17/07/2019	75	75	75	YES	REG	
SWAPNA DHARM AVARAM	BADPD 5706Q	M.SC	17/07/2002	Applied Mathematics	Assistant professor	12/07/2017	75	75	75	YES	REG	
NARMA DA KADIYALA	JKPK5 237G	M.SC	18/04/2015	Statistics	Assistant professor	30/11/2021	66	0	0	YES	REG	
GALAKOTA RATNA KUMARI	BHQPR 2113D	M.Sc	12/06/2015	Mathematics	Assistant professor	12/08/2022	50	0	0	YES	REG	

ECE – Self Assessment Report

GATHRAM SIVARAM PRASAD	AXWPG 1214H	M.SC	16/06/ 2008	Physic s	Assist ant profes sor	18/07/ 2016	75	75	75	YES	REG	
VANAM RAMULU	AFYPV 8197E	M.SC	25/02/ 2007	Physic s	Assist ant profes sor	19/11/ 2012	75	75	75	YES	REG	
KANTH SUDEEPT HI MUKTHA VARAPU	DTXPK 8550E	M.SC	10/06/ 2015	Physic s	Assist ant profes sor	20/06/ 2018	75	75	75	YES	REG	
CHOUTA KURA SWAPNA	BWHPC 4646L	M.SC	10/06/ 2018	Physic s	Assist ant profes sor	23/07/ 2018	75	75	75	YES	REG	
ALWA SWATHI	NYEPS5 933K	M.SC	06/11/ 2008	Physic s	Assist ant profes sor	20/06/ 2018	75	75	75	YES	REG	
BANDAR APU PAVANI	CFYPB6 348K	M.Sc	20/06/ 2016	Physic s	Assist ant profes sor	12/08/ 2022	50	0	0	YES	REG	
VISHLAK SHI GADDA M	CLXPV 0156L	M.SC	25/11/ 2022	Physic s	Assist ant profes sor	30/11/ 2022	50	0	0	YES	REG	
GORRIPA RTHI VARALA KSHMI	AQIPG6 699M	M.SC	04/07/ 2007	Analyti cal Chemi stry	Assist ant profes sor	20/12/ 2021	75	0	0	YES	REG	
KOTHA SRAVAN THI	DXBPK 7981M	M.SC	29/01/ 2014	Chemi stry	Assist ant profes sor	10/12/ 2020	50	0	0	YES	REG	
RAJESH ANANTH ULA	BRBPA 1599M	M.SC	16/11/ 2013	Organi c Chemi stry	Assist ant Profes sor	28/02/ 2021	50	0	0	YES	REG	
KURREM ULA SRIKANT H	HFSPK7 850G	M.SC	09/07/ 2010	Organi c Chemi stry	Assist ant Profes sor	06/11/ 2020	50	0	0	YES	REG	
CHINTH A BHAVAN I	AVYPC 1226H	M.SC	10/06/ 2012	Organi c Chemi stry	Assist ant Profes sor	08/09/ 2018	50	50	50	YES	REG	
K SANDHY A	CXLPK 3806L	M.Sc	19/12/ 2012	Organi c Chemi stry	Assist ant Profes sor	17/11/ 2022	50	0	0	YES	REG	

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KADA ANUSHA	MJQPK 1868R	M.Sc	23/06/2016	Analytical Chemistry	Assistant Professor	08/08/2022	50	0	0	YES	REG	
MANI KUMAR	CCWP M9732P	M.A	9/06/2007	English	Assistant Professor	24/09/2012	60	60	60	YES	REG	
SURESH BABU	BKUPK 9512L	M.A	10/06/2007	English	Assistant Professor	02/01/2015	50	50	50	YES	REG	
RAVEEN DRANATH MULE	BDMP M2301N	M.A	05/12/2012	English	Assistant Professor	11/07/2022	75	0	0	YES	REG	
PRANEETH GANKIDI	AVZPG 1432C	M.A	05/12/2012	English	Assistant Professor	23/11/2021	75	0	0	YES	REG	
GANNERLA SOWJANYA	NPXPS1 977B	M.A	13/09/2017	English	Assistant Professor	12/08/2022	50	0	0	YES	REG	
JAYALA KSHMI MEDIKONDA	AXBPM 9888L	M.A	27/12/2011	English	Assistant Professor	25/10/2022	50	0	0	YES	REG	
APPIDI SATHISH REDDY	BMVPA 4098L	M.TECH	22/06/2017	Power Electronics	Assistant Professor	13/06/2016	75	75	75	YES	REG	
GAVINI SAILATHA	BBDPG 5270K	MBA	05/10/2011	HR	Assistant Professor	22/07/2015	30	30	30	YES	REG	
LAKSHMI TOLAPI	AKCPT 0079N	M.SC	19/06/2009	ES	Assistant Professor	11/12/2015	60	60	60	YES	REG	
MALLELA SUDHARANI	BWIPM 1758G	M.TECH	22/10/2016	CAD, CAM	Assistant Professor	02/11/2021	60	0	0	YES	REG	
MEDISET TILAXMI VENKATA	CAPPM 0720E	M.TECH	18/11/2015	CAD, CAM	Assistant Professor	20/10/2021	60	60	60	YES	REG	
PARSHA POGU VIJAY PAUL	AVNPV 2490D	M.TECH	28/08/2021	PE	Assistant Professor	01/10/2021	75	0	0	YES	REG	

ECE – Self Assessment Report

DIVYA JOGU	CCRPJ2 853H	M.TE CH	18/09/2021	Geo Techni cal Engine ering	Assist ant Profes sor	07/09/2021	75	0	0	YES	REG	
SRINATH DODDI	DDVPD 4374R	M.TE CH	18/09/2021	Structu ral Engine ering	Assist ant Profes sor	01/11/2021	75	0	0	YES	REG	
CHINNA RAMATE NKI	CHTPR 7025N	M.TE CH	08/10/2020	Machi ne design	Assist ant Profes sor	06/09/2021	75	0	0	YES	REG	
MECHIN ENIPAVA NI	FMSPP2 219B	M.TE CH	12/09/2008	CSE	Assist ant Profes sor	22/11/2021	50	0	0	YES	REG	
MAMAT HA RANERU	DVPPR 5646E	M.TE CH	16/10/2020	CSE	Assist ant Profes sor	02/12/2021	50	0	0	YES	REG	
CHUKKA RANJITH	DRTPR 3466J	M.TE CH	19/01/2019	SIGN AL SYST EMS	Assist ant Profes sor	03/06/2019	50	0	0	YES	REG	
GONGITI RAJESH WARI	AKJPG5 009J	MBA	07/04/2020	FINA NCE	Assist ant Profes sor	07/07/2022	0	0	0	YES	REG	
V CHANDR A SHEKAR	AYOPS 7650N	M.TE CH	01/12/2003	CSE	Assso ciate profes sor	19/08/2019	0	0	50	YES	REG	30/06/2021
Dr.KRISH NA MURTY RAMASU BRAMAN IAN	AXYPK 5995M	M.TE CH / PHD	17/10/2019	CSE	PROF ESSO R	28/07/2015	0	0	50	YES	REG	31/05/2021
DR.SYED AZAHAD	DLBPS5 224K	M.TE CH / PHD	31/10/2019	CSE	Assist ant profes sor	01/12/2017	0	0	50	YES	REG	31/05/2021
S. VAMSI KRUSHN A	CDEPS3 173B	M.TE CH	12/02/2014	CSE	Assist ant profes sor	01/07/2016	75	75	75	YES	REG	
JUPALLI RAJAKU MARI	MBVPK 0068G	M.TE CH	29/12/2009	CSE	Assist ant profes sor	01/12/2021	50	50	0	YES	REG	

ECE – Self Assessment Report

A KIRAN KUMAR REDDY	AVFPK 9728H	M.TE CH	01/04/ 2014	CSE	Assist ant profes sor	17/12/ 2015	0	50	50	YES	REG	02/0 5/ 2022
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YEAR	Number of students (intake,N)	Number of faculty members (Considering fractional load F)	FYSFR(N/F)	Assessment = (5*20)/FYSFR(limited to Max.5)
2020-21 (CAYm2)	283	18	16	5.00
2021-22 (CAYm1)	338	21	16	5.00
2022-23 (CAY)	394	22	18	5.00
AVERAGE	279	17	16	5.00

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

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	1	14	14	2
2021-22	1	22	17	4
2022-23	1	28	24	3

Average Assessment: 3.00

8.3 First Year Academic Performance (10)

Academic Performance	2021-22	2020-21	2019-20
Mean of CGPA or mean percentage of all successful students(X)	65.00	58.00	67.00
Total Number of successful students(Y)	45.00	50.00	52.00
Total Number of students appeared in the examination(Z)	63.00	75.00	87.00
API [$X*(Y/Z)$]	46.43	38.67	40.05

Average API $[(AP1+AP2+AP3)/3]$: 41.72

Assessment $[1.5 * \text{Average API}]$: 41.72

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

The key aspects in Outcome-Based Education (OBE) are the assessment of course outcomes. At the initial stage of OBE implementation, the Course Outcomes (COs) for each course are defined based on the Programme Outcome (POs) and other requirements. At the end of each course, the COs 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.

CO Assessment Processes

Assessment tools are categorized into two methods to assess the course outcomes as:

Direct methods and indirect methods.

1. Direct method displays the student's knowledge and skills from their performance in the continuous internal assessment tests, semester examinations, seminars, and class room and laboratory assignments etc. These methods provide a sampling of what students know and/or can do and provide strong evidence of student learning.
2. Indirect method includes student feedback on facilities, learning artifacts and course end

survey that reflects the student's learning

Course Outcome is assessed in view of the performance of students in internal assessment, university examination of a Course and Course end survey. Direct assessment contributes 80% and indirect assessment contributes 20%. From direct assessment internal assessment contributes 25% and university assessment contributes 75% to the aggregate attainment of a CO.

Direct Assessment Method

Table: Direct Assessment Tool

S.no	Direct Assessment	Method Description
1	Internal Assessment Test	The Internal Assessment marks in a theory paper shall be based on two tests generally conducted at the end of 6 and 14 weeks of each semester. At the end of 14th week pre final examination may be conducted. An improvement test may be conducted for the desirous students before the end of the semester to give an opportunity to such students to improve their Internal Assessment Marks. It is a metric to continuously assess the attainment of course outcomes w.r.t Course Objectives. Average of the two tests shall be the Internal Assessment Marks for the relevant subject.
2	Lab Assignments	Lab Assignment can be one of the measuring criteria to mainly assess student's practical knowledge with their designing capabilities. In case of Practical, the internal assessment marks shall be based on the laboratory records and two practical test.
3	Mid Examination	The examination pattern prescribed by the University is strictly followed. Two internal (mid) exams- mid exam 1 & mid exam 2- are conducted and two assignments (1 & 2) are given in each semester. In each of the two exams, each student is evaluated for 25 marks with the following split- up: - Descriptive test with the question paper set by concerned

		faculty: 10 marks - Objective type test with the question paper set by university: 10 marks - Assignment set by course teacher: 5 marks
4	Theory and Practical Semester End Examination	Semester End Examination (Theory or Practical) are the metrics to assess whether all the course outcomes are attained or not by the course owner. Semester End Examination is more focused on attainment of the course outcomes and uses a descriptive exam.

As per the JNTU regulations, the marks allotted to theory are 25% and practical 25% for internal assessment. The remaining 75% is done at university end assessment. The university end examinations are conducted at a center other than this college. Though the percentage of internal assessment is low, it is to be covering a large number of course objectives. The internal examination and the prescribed marks are to be complied with the regulation. Therefore, the scope for comprehensive assessment is less. In this frame work, the college conducts the components depicted in the above Table.

The internal assessment evaluation is separately compiled and graded to understand the process.

In the present analysis, the attainment levels are expressed in terms of the grades (3, 2 and 1) in accordance with the following rules:

Attainment Level 3: Greater than 60% of the students are scoring more than targeted value which is above the average of each Course Outcome in the internal examination.

Attainment Level 2: Between 50 to 59% of the students are scoring more than targeted value which is above the average of each Course Outcome in the internal examination.

Attainment Level 1: Between 40 to 49% of the students are scoring more than targeted value

which is above the average of each Course Outcome in the internal examination.

The same yardsticks are applied to external evaluation. It is based on the results of the Examinations conducted by university at the end of each semester. However, the institute doesn't have access to the answer scripts and evaluation of individual course outcomes is not possible. University authorities provide us with the information on the marks/grades scored by each student in each course. The attainment levels are expressed in terms of the grades (3, 2 and 1) in accordance with the following rules:

Attainment Level 3: Greater than 60% of the students are scoring more than the University average percentage marks or set attainment level in the final examination

Attainment Level 2: Between 50 to 59% of the students are scoring more than the University average percentage marks or set attainment level in the final examination

Attainment Level 1: Between 40 to 49% of the students are scoring more than the University average percentage marks or set attainment level in the final examination

Indirect Assessment

Table: Indirect assessment methods

S.No	Indirect Assessment	Description
1	Course End Survey	Collect variety of information about course studied at the end of the semester
2	Learning Artifact	Students are allowed to display their knowledge in a public forum (usually the classroom). Artifacts are in the form of paintings, drawings, sculptures, project models, paper presentation etc.

$$\text{Final CO Attainment (A)} = (0.8 * \text{Direct Attainment}) + (0.2 * \text{indirect Attainment})$$

8.4.2 Record the attainment of Course Outcomes of all first year courses

Attainments of Course Outcomes for all Courses

S.No	Subject Code	Subject Name	CO1	CO2	CO3	CO4	CO5
FIRST SEMESTER							
1	C111	Mathematics - I	1.63	1.42	1.43	1.43	1.43
2	C112	Applied Physics	1.57	1.52	1.44	1.52	1.52
3	C113	Programming for Problem Solving	1.53	1.38	1.47	1.39	1.39
4	C114	Engineering Graphics	1.81	1.74	1.67	1.75	1.75
5	C115	Applied Physics Lab	2.33	2.25	2.26	2.33	2.26
6	C116	Programming for Problem Solving Lab	2.35	2.31	2.32	2.35	2.32
SECOND SEMESTER							
7	C121	Mathematics - II	1.63	1.44	1.4	1.45	1.45
8	C122	Chemistry	1.58	1.54	1.47	1.55	1.55
9	C123	Basic Electrical Engineering	1.64	1.54	1.49	1.55	1.55
10	C124	Engineering Workshop	2.36	2.24	2.17	2.24	2.24
11	C125	English	1.8	1.66	1.67	1.8	1.67
12	C126	Engineering Chemistry LAB	2.4	2.34	2.26	2.35	2.35
13	C127	English Language Communication Skills LAB	2.21	2.12	2.06	2.12	2.12
14	C128	Basic Electrical Engineering LAB	2.24	2.01	2.02	2.02	2.02

8.5 Attainment of Program Outcomes from first year courses (20)**8.5.1 Indicate results of evaluation of relevant PO and/ or PSO, if applicable (15)****PO attainment:**

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C111	1.47	1.47	1.47	1.47	1.47	0	0	0	0	0	0	0
C112	1.01	0.91	0.2	0.8	0	0	0	0	0	0	0	0
C113	1.15	0.86	1.43	0.86	0	0	0	0	0	0	0.29	0.67
C114	1.63	1.74	1.74	0.47	1.16	1.04	0	0	0	0	0	1.16
C115	1.52	1.37	0.31	1.21	0	0	0	0	0	0	0	0
C116	2.02	1.71	0.31	0	0.16	0	0	0	0	0	0	0
C117	1.47	1.47	1.47	1.47	1.47	0	3	2	0	0	0	2
C118	1.54	0.82	0.6	0	0	0	0	0	0	0	0	0
C121	1.55	1.04	0.52	0.1	1.13	0.42	0	0.31	0.73	0.4	0.83	1.04
C122	2.1	2.25	2.25	0.61	1.5	1.35	0	0	0	0	0	1.5
C123	1.03	0	0	0	0.22	0	0	0.93	1.04	0.93	0	1.38
C124	0.78	1.24	0.92	0	0	0	0	0	0	0	0	0
C125	1.27	0	0	0	0	0	0	1.14	1.28	1.13	0	1.7
C126	2.06	1.37	0.69	0.13	1.76	0.81	0	0.4	0.84	0.81	0.97	1.37

PO attainment level

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
Direct attainment	1.47	1.35	0.99	0.79	1.11	0.90	3	0.96	0.97	0.82	0.70	1.35
CO attainment	1.47	1.35	0.99	0.79	1.11	0.90	3	0.96	0.97	0.82	0.70	1.35

PSOs Attainment:

Course	PSO1	PSO2
C111	1.47	0
C112	0.31	0.4
C113	0	0
C114	1.16	1.28
C115	0.46	0.61
C116	0	0
C117	1.47	0
C118	0	0
C121	1.14	0

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C122	1.5	1.66
C123	0.17	0
C124	0	0
C125	0.71	0
C126	1.37	0

PSO attainment level

Course	PSO1	PSO2
Direct attainment	0.98	0.99
CO attainment	0.98	0.99

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

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

POs	Target Level	Attainment Level	Observations
PO1: Engineering knowledge: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.			
PO 1	1.75	1.47	Attainment was found to be low
Action1: Assignment Questions quality to be improved to apply the knowledge of mathematics, science, engineering fundamentals Action2: Tutorial classes to be conducted on the above subjects			
PO2: Problem analysis: Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural			
PO 2	1.75	1.35	Attainment was found to be low in CHEMISTRY
Action1: Tutorial classes to be conducted on the above subjects Action2: Assignment Questions quality to be improved			
PO3: Design/development of solutions: Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.			
PO 3	1.75	0.99	Attainment was found to be low in BEE , AP theory & LAB
Action1: More exercises and practice work to be done on circuits in BEE Action2: Tutorial classes to be conducted to attain in Applied physics			
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.			
PO 4	1.75	1.01	Attainment was found to be low

Action1: CO2 & CO3 of EG can be improved to achieve the attainment level Action2: Extra classes for both theory and practical to be conducted to attain the level in 'C'			
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			
PO 5	1.75	1.32	Attainment was found to be low in PPS theory & LAB
Action1: Students are being exposed to modern tools in computers Action2: More classes with different approach can be taught to improve their Knowledge			
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.			
PO 6	1.75	0.84	Attainment was found to be lo
Action1: Regularly visited places around the college to identify social problems Action2: Students could realize their responsibilities relevant to the professional engineering practice			
PO7: Environment and sustainability: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.			
PO 7	1.75	0.21	Attainment was found to be low
Action1: More environmental related topics can be taught so that students can have knowledge related to Sustainability Action2: Topics like waste management have been tried out in the college campus			
PO8: Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.			
PO 8	1.75	0.96	Attainment was found to be low in ENGLISH
Action1: Topics on moral ethics can be added in English course Action2: CRT classes are conducted to help students prepare for aspirations			
PO9: Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.			
PO 9	1.75	0.97	Attainment was found to be low in BEE theory & LAB
Action1: Students need to function effectively as an individual and as a member in teams Action2: More practical sessions can be conducted for the students to improve their knowledge			
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			
PO10	1.75	0.82	Attainment was found to be low in BEE theory & LAB
Action1: Students could communicate effectively on complex engineering activities with the engineering community by participating in co-curricular activities			

Action2: CO-PO mapping for BEE course to be improved			
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.			
PO11	1.75	0.70	Attainment was found to be low in PPS &BEE
Action1: Guest talk to be conducted on time management and team work Action2: CO-PO mapping for BEE course to be improved			
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.			
PO12	1.75	0.35	Attainment was found to be low in PPS
Action1: Students are taught fundamentals in clear manner so that they can apply for their lifelong learning			
Action2: Encourage students to be a member of professional society			

PSOs Attainment levels and Actions for Improvement:

PSOs	Target Level	Attainment Level	Observations
PSO1 : Professional skills: Apprehend and analyze specific engineering problems of communication & electronics circuits, signal processing and semiconductor technology by applying the knowledge of basic sciences, engineering mathematics and engineering fundamentals.			
PSO1	1.75	0.98	Attainment was found to be low in ENGLISH and ELCS lab
Action1: Training programs are conducted to focus on helping students solve technology based problems			
Action2: Skills to be improved in students by organizing Guest talks by experts in engineering			
PSO 2 : Design and developing skills: Ability to design and implement the acquired technical knowledge with proficiency in logical programming for applications in electronics & communication engineering			
PSO2	1.75	0.99	Attainment was found to be low
Action1: Students develop the ability to work with community , understand their problems and to develop technological solutions			

9 STUDENT SUPPORT SYSTEMS

9.1 Mentoring system to help at individual level (5)

Details of Mentoring System:

An effective Student Mentoring system has already been implemented in our college

- For each group of 15-20 students in a class a mentor/counselor is appointed who is entrusted with the duty of collecting data with regard to each student.
- A handbook containing a wide range of fields encompassing student's personal data, family back ground, attendance pattern, academic performance, negative traits, emotional quotients etc. is maintained.
- Perusal of the data enables the mentor to decide on the type of corrective action to be taken, in consultation with the HOD and course teachers to support the student to come out of the problems, if any.
- Students are counseled individually, aided therapeutically and are supported in their aspirations related to academic, career plans; to air their grievances and cope with issues which may impede their progress in the above areas.
- Regular orientation programs and Parent meetings are conducted for bringing parents into the monitoring / mentoring system as key stake-holders.
- Follow up sessions with the parents of the students who have poor performance and attendance are regularly arranged to enable their wards to improve their attendance and performance.

Roles & Responsibilities of a Counselor:

- To maintain Personal information of the students.
- To maintain previous academic Record.
- To motivate the student towards their studies and development of overall personality and skills.
- To motivate the students to participate in various co-curricular and extracurricular activities.
- To identify student's problem and guide them to overcome it. Wherever necessary the counselor interacts with administration, HoD and Principal to alienate the student's issues like issues related to payment of dues, etc.
- To segregate allotted students as merit, average, poor and guide them properly.
- To encourage peer group in students to enhance their skills (academics & nonacademic activities).
- Maintain parent teacher relation and inform the progress of their ward.
- To meet the students periodically, monitor their performance and activities.

Table: Description of mentoring system

S.No	Type of Mentoring System	Functions
1	Professional Guidance	Encourage students to discuss their ideas on paper presentations. Motivate them to expand their domain knowledge base by participating in competitions such as Quiz.
2	Academic Guidance	Focus on academically weak students, by providing them with additional reading materials, model questions along with solutions and special make-up classes.
3	Career Advancement	Provide Career Guidance/CRT and other Training apart from arranging campus recruitment drives by the Training & Placement Cell.
4	Laboratory Specific	Counsel irregular students to laboratory classes to attend regularly and complete backlog experiments during specified extra hours.
5	Personal Development	To counter and cope emotional, mental, social and environmental challenges of students through student-counselor interaction

Table: Mentor List for the A.Y 2022-23

S.No	Name of the mentor	Year/ Sec	Regd. No		No. of students
			From	To	
1	Jalajakshi Yellamelli	II/I	21U11A0401	21U11A0414	14
2	Divya Donthireddy	II/I	21U11A0415	21U11A0429	14
3	Divya Seshabattar	II/I	21U11A0430	21U11A0443	14
4	Chandrasekhar Pattem	II/I	21U11A0444	21U11A0457	14
5	Pavani Manne	II/I	21U11A0458	21U11A0471	14
6	Vamsikrishna Jupudi	II/I	21U11A0472	22U15A0412	14
7	Kethadi Naveen Kumar	II/I	22U15A0413	22U15A0424	14
8	Thalapally Mrinalini	III/I	20U11A0401	20U11A0430	14

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	Charan				
9	Kancharana Prasanth	III/I	20U11A0431	20U11A0462	14
10	Boddula Sravanthi	III/I	20U11A0463	21U15A0432	14
11	Kannan Vani Shree	III/I	20U11A0401	20U11A0430	14
12	Ganji Veeraiah	IV/I	19U11A0423	19U11A0453	14
13	Sangeetha Balne	IV/I	19U11A0454	20U15A0409	14
14	Sahithi Bitla	IV/I	20U15A0410	20U15A0429	14

Table: Mentor List for the A.Y 2021-22

S.No	Name of the mentor	Year/ Sec	Regd. No		No. of students
			From	To	
1	K. Vanishree	II/II	21U11A0401	21U11A0430	14
2	K.Padmaleela		21U11A0431	21U11A0462	14
3	M.Venkatswamy		21U11A0463	22U15A0432	14
4	G.Veeranna	III/II	20U11A0401	20U11A0430	14
5	G.Mounica		20U11A0431	20U11A0462	14
6	K.Leelasanthoshi		20U11A0463	21U15A0432	14
8	K. Damodar	IV	17U11A0408	19U11A0422	14
9	N.Lathamadhuri		19U11A0423	19U11A0453	14
10	M. Pavani		19U11A0454	20U15A0409	14
11	K. Deepa		20U15A0410	20U15A0429	14

Table: Mentor List for the A.Y 2020-21

S.No	Name of the mentor	Year/ Sec	Regd. No		No. of students
			From	To	
1	Mrs. K. Vanishree	II	17U11A0408	19U11A0407	16
2	Mr. B. Shanker	II	19U11A0408	19U11A0424	16

3	Ms. P. Shamili Srimani	II	19U11A0425	19U11A0441	16
4	Ms.P.Sumanya	II	19U11A0442	19U11A0457	16
5	Mr. P. Surendra Babu	II	19U11A0458	19U11A0473	16
6	Ms. B. Sravanthi	II	19U11A0474	20U15A0415	16
7	Mr. K. Prasanth	II	20U15A0416	20U15A0429	13
8	Mr. J. Vamsi Krishna	III	17U11A0480	18U11A0411	16
9	Mr. C. Mani Kumar	III	18U11A0412	18U11A0427	16
10	Mr. V. Sandeep Kumar	III	18U11A0428	18U11A0444	16
11	Mrs. G. Susmitha	III	18U11A0445	18U11A0467	16
12	Mr.P. Ashok Kumar	III	18U11A0468	18U11A0488	16
13	Mrs. Y. Jalajakshi	III	18U11A0491	19U15A0415	16
14	Mr. K Kumar Naveen	III	19U15A0416	18L75A0410	16
15	Mr. K. Damodar	IV	16U11A0410	17U11A0411	16
16	Mrs. D Divya	IV	17U11A0413	17U11A0435	16
17	Mr. P. Chandrashekhar	IV	17U11A0436	17U11A0457	16
18	Mrs. M. Pavani	IV	17U11A0458	17U15A0408	16
19	Mrs.K.Deepa	IV	17U15A0410	16U15A0404	16

Table: Mentor List for the A.Y 2019-20

S.No	Name of the mentor	Year/ Sec	Regd. No		No. of students
			From	To	
1	Y.Jalajakshi	II	17U11A0480	18U11A0409	14
2	Musthaq Ali Mubeen	II	18U11A0410	18U11A0423	14
3	Sharath Kumar Drva	II	18U11A0424	18U11A0437	14
4	Jupudi Vamsikrishna	II	18U11A0438	18U11A0456	14
5	Sandeep Kumar Vasa	II	18U11A0457	18U11A0473	14
6	Ashok Kumar P	II	18U11A0474	19U15A0403	14

7	Kethadi Kumar Naveen	II	19U15A0404	19U15A0421	18
8	Deepa Karine	III	16U11A0410	17U11A0416	14
9	Manne Pavani	III	17U11A0417	17U11A0436	14
10	Pattam Chandrashekhar	III	17U11A0439	17U11A0456	14
11	Donthi Reddy Divya Reddy	III	17U11A0457	17U11A0477	14
12	Divya Seshabattar	III	17U11A0481	18U15A0409	14
13	Thalapally Mrinalini Charan	III	18U15A0410	18U15A0415	15
14	Gotte Vijaya Lakshmi	IV	15U11A0408	16U11A0414	15
15	Aitha Bhavani	IV	16U11A0415	16U11A0433	15
16	Pendyala Shamili Srimani	IV	16U11A0434	16U11A0454	15
17	Karpurapu Lakshmi Sumanjali	IV	16U11A0455	16U11A0469	15
18	Meesala Vikramkumar	IV	16U11A0470	17U15A0415	12

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

Feedback on faculty teaching performance is taken from students through a well-defined format in the middle of the semester

Feedback collected for all courses: YES

Average Percentage of students who participate: more than 85%

Specify the feedback analysis process: Through manual procedure

- The feedback system is confidential and collected twice a year through manual procedure.
- Feedback collected through students' evaluation form for all students at least once a semester in a range of 5-point scale.
- On the basis of that overall rating conceived based on the students' feedback.
- On the basis of that overall rating conceived based on the feedback given by the students.
- Feedback analysis process framed by the instate covers various aspects such as delivery of lecture, depth of subject, audibility, interaction, etc

- Students overall evaluation was collected by framing some set of questions based on teaching/Learning methodology.
- Corrective measures and action are taken by the HOD based on the feedback analysis with the individual faculty members involved.

Methodology followed for feedback analysis and its effectiveness of feedback analysis

1. Feedback collection process
2. Feedback assessment process
3. Corrective measures

Feedback collection process

Feedback mechanism is well-organized system, defined specific to the college and is uniform for all the departments.

Items	Description
Feedback collection process	YES
Feedback receiver	HOD
Frequency of feedback collection	Once in a semester (but oral feedback from Class Representatives through student council is taken by HOD almost every month)
Metrics used for calculation	5- Excellent 4 -Very good 3-Good 2-Average 1-Poor or needs to be improved
Purpose of comment	For improving the quality of teaching-learning



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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

STUDENT FEEDBACK ON TEACHERS

A.Y	BRANCH	Year - Semester	Date
2021-2022	CSE (C)	III / I	30-12-21

This questionnaire is intended to collect information relating to your satisfaction towards the teachers. The information provided by you will be kept confidential and will be used as feedback for quality improvement.

Directions: A score for each item please indicate your level of satisfaction with the following statement by choosing between 1 and 5.

*Rating: Excellent (5), Very Good (4), Good (3), Average (2), Poor (1)

S.No.	Questions	ADE					COA					COSM					DS					C++				
		5	4	3	2	1	5	4	3	2	1	5	4	3	2	1	5	4	3	2	1	5	4	3	2	1
1.	Teacher comes to Class on time	✓					✓					✓					✓					✓				
2.	Teaching is well planned	✓					✓					✓					✓					✓				
3.	Teacher makes objectives clear	✓					✓					✓					✓					✓				
4.	Subject matter organized in logical sequence	✓					✓					✓					✓					✓				
5.	Teacher comes well prepared in the subject	✓					✓					✓					✓					✓				
6.	Teacher speaks clearly and audibly	✓					✓					✓					✓					✓				
7.	Teacher writes and draws legibly	✓					✓					✓					✓					✓				
8.	Teacher explains with examples clearly	✓					✓					✓					✓					✓				
9.	Teaching pace is good; Not very fast	✓					✓					✓					✓					✓				
10.	Teachers offers assistance and counseling	✓					✓					✓					✓					✓				
11.	Teacher asks relevant questions for interaction	✓					✓					✓					✓					✓				
12.	Teacher encourages raising doubts	✓					✓					✓					✓					✓				
13.	Teacher ensures learning of subject	✓					✓					✓					✓					✓				
14.	Teacher encourages originality and creativity	✓					✓					✓					✓					✓				
15.	Teacher is courteous and impartial	✓					✓					✓					✓					✓				
16.	Teacher is regular and maintains discipline	✓					✓					✓					✓					✓				
17.	Teacher covers the syllabus at appropriate pace	✓					✓					✓					✓					✓				
18.	Teacher holds quizzes, seminars regularly	✓					✓					✓					✓					✓				
19.	Teacher correction of scripts fair and impartial	✓					✓					✓					✓					✓				
20.	Teacher promptly values and returns papers	✓					✓					✓					✓					✓				
TOTAL																										

Remarks: (if any)

Date: 30-12-21

Signature

Feedback assessment process

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.

Table: Feedback Assessment Process Steps

Steps	Description
Step-1	Collection of feedback forms from the students based on parameters specified in questionnaire.
Step-2	Estimation of average for all the parameters and calculation of cumulative which is called as the Faculty Performance Index (FPI).
Step-3	After the recommendations of DAB, FPI will be finalized. The minimum required value is 80%.

Step-4	If the FPI exceeds 80%, it will be considered as good. If it is less, the faculty Performance is considered as “needs to be improved”.
Step-5	If faculty receives performance <80%, they are counseled and allowed them to improve their performances.



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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

ANALYSIS OF STUDENT FEEDBACK ON TEACHERS

II B.TECH I SEM-CSE

Total Number of Students Participated in the Feedback: 52

(A.Y 2021-2022)

S.No	Questions	COSM				
		5	4	3	2	1
1	Teacher comes to Class on time	24	10	9	9	
2	Teaching is well planned	32	8	8	4	
3	Teacher makes objectives clear	28	8	11	5	
4	Subject matter organized in logical sequence	45	2	5		
5	Teacher comes well prepared in the subject	32	5	7	6	2
6	Teacher speaks clearly and audibly	33	8	7	4	
7	Teacher writes and draws legibly	39	2	6	5	
8	Teacher explains with examples clearly	28	9	10	4	
9	Teaching pace is good, Not very fast	37	2	6	5	2
10	Teachers offers assistance and counseling	34	5	8	4	
11	Teacher asks relevant questions for interaction	35	5	6	4	1
12	Teacher encourages raising doubts	25	10	8	8	
13	Teacher ensures learning of subject	44	2	3	3	
14	Teacher encourages originality and creativity	35	4	8	4	1
15	Teacher is courteous and impartial	34	5	8	4	1
16	Teacher is regular and maintains discipline	25	9	8	9	
17	Teacher covers the syllabus at appropriate pace	45	2	3	2	
18	Teacher holds quizzes, seminars regularly	25	10	8	9	
19	Teacher correction of scripts fair and impartial	45	2	5		
20	Teacher promptly values and returns papers	26	9	8	9	

Corrective Measures:

The teacher is shown every feedback. If the feedback is less than 60% the teacher is advised by the concerned HOD to improve his/her teaching methodology and are suggested to attend Faculty Development Programs organized in-house as well as other colleges / universities in subjects of faculty focus.

9.3 Feedback on facilities (5)

Assessment is based on student feedback collection, analysis and corrective action taken.

Feedback on facilities (Format enclosed). A standard procedure for feedback on facilities is taken up in the department as per the following steps:

Feedback is collected from the students on the facilities available in the department such as

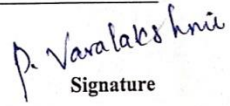
class room infrastructure, library, labs, canteen, playground, internet facility, etc. The feedback is analyzed and the necessary corrective measures are implemented after discussions with the management.

Following are the process of feedback on facilities.

1. Feedback collection process
2. Feedback analysis
3. Corrective measures

Items	Description
Feedback collected about all facilities provided by the college	YES
Feedback collection process	Manual
Frequency of feedback collection	Once in an academic year
Metrics used for calculation	5-Excellent 4-Very Good 3-Good 2-Average 1-Poor
Purpose of comments	For improving quality of facilities

Fig : Sample Feedback Collection Form on College Facilities

 SAMSKRUTI COLLEGE OF ENGINEERING & TECHNOLOGY (Approved by AICTE, New Delhi & Affiliated to JNTUH.) Kondapur(V), Ghatkesar(M), Medchal(Dist)						
DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING						
FEEDBACK FORM ON INFRASTRUCTURE AND FACILITIES						
Name of the student (Optional) : <u>Patlepati Varalakshmi</u> Year of graduation: <u>2025 (1st year)</u>						
Registered Number (Optional) : <u>21U15A0405</u> Branch : <u>ECE</u>						
E-Mail ID : <u>Varalakshminudivaj076@gmail</u> Contact No: <u>7032449987</u>						
Please give a rating based on 5: Excellent, 4: Very Good, 3: Good, 2: Average, 1: Poor						
(A.Y 2021-2022)						
S.No.	Questions	5	4	3	2	1
1.	Lighting and Ventilation in classrooms	✓				
2.	Audio & Video Quality in Smart Classroom	✓				
3.	Quality and Quantity of Furniture	✓				
4.	Cleanliness in classrooms and labs	✓				
5.	No of Computers sufficient for all students	✓				
6.	Availability of Software	✓				
7.	Hygiene and quality of food in canteen	✓				
8.	Maintenance of Washrooms	✓				
9.	Quality & Availability of drinking Water		✓			
10.	Enough space available to play sports in college	✓				
11.	Motivation from institute authorities to participate and other college fest	✓				
12.	Availability of busses in all routes & Timings	✓				
13.	Availability of books/Journals in Library		✓			
14.	Canteen Timings Hygiene, Service			✓		
15.	Overall impression on the institution	✓				
Any other suggestions for improvement: _____						
 Signature						

2) Feedback analysis

The feedback given by the students is consolidated and analyzed. The Principal discuss about the consolidated report with the management and come out with necessary actions.

3) Corrective measures

Some of the corrective actions initiated are:

- ✓ Student Recreation Centre
- ✓ Canteen facility was improved
- ✓ Washrooms are maintained in hygienic way
- ✓ Laboratory facilities were improved

9.4 Self-Learning (5)

Plenty of opportunities are available for self-learning to the students without the direct help of any teacher. These include:

- ✓ Library
- ✓ Departmental Library
- ✓ Professional Bodies
- ✓ Seminars & Workshops
- ✓ Additional Assignments
- ✓ Institute Website.
- ✓ Digital Library
- ✓ Incubation Center
- ✓ Industrial Visits

S.No.	Self-Learning Process	Description
1	Library	The college library provides information and ideas that are fundamental to function successfully in today's information and knowledge-based society.
2	Departmental Library	The department is facilitated with books for students. Many PPT'S are also stored in the department library
3	Professional Bodies / Other Association	Joining a professional association will be one of the most important activities in a student's career. To increase knowledge in their own fields, expand networking possibilities or jump start to job hunt, a professional association membership is an option which is worth exploring. All career options corresponding to professional association offer valuable information and resources for their career enhancement. Our students possess membership in different professional bodies like ISTE, CSI.

4	Seminars & Workshops	Seminars and Workshops are conducted frequently in the department level which help students to interact with industry experts, research persons, entrepreneurs and small business partners.
5	Assignments	Enables students to go through the topic in a more elaborate manner which lead to an overall better learning experience for students.
6	Institute Website	The college website provides e-notes, PPT'S of all the subjects.
7	Digital Library	Enables Students to instantly access educational content such as magazines, articles, books, papers, images, sound files and videos on a digital support
8	Incubation Center	Helps students to get first-hand experience in entrepreneurship, promote innovation driven activities at the institute.
9	Industrial Visits	Provides an opportunity to plan, organize and engage in active learning experiences both inside and outside the class room. Provides an insight into the real world.

9.5 Career Guidance, Training, Placement (10)

A well-established Career Guidance Cell strives to increase the employability quotient and competency level of the young mind. The Cell establishes a gradual training plan which goes hand in hand with the academic syllabus. It works round the year in building strong networks in the HR fraternity to fetch recruitment opportunities of various Industries.

Key Features:

- **Exclusively Dedicated Team**
- **Skill Enhancement Partners**
- **Customized training Curriculum**
- **Orientation on various career avenues in Higher education**
- **Strong client network**
- **Paid Internships**
- **Live Projects**
- **Mentoring sessions from the day 1.**
- **Career grooming services**
- **Campus to Corporate Transformation**

The facilities are elaborated below:

1. Training

a) Campus recruitment training (**CRT**) program of 60 to 120 hrs. of duration is being conducted at each academic year.

- b) CRT is mandate for the students for II, III & IV year of all branches.
- c) Identified Training companies are invited to submit quotation and the best of them is elected to execute the CRT (Campus recruitment training), duly customized as per the market demands.

- Aptitude
- Logical reasoning
- Communication skills
- Group discussion
- Interview skills

d) Awareness Sessions on GRE/TOFEL are also conducted and eminent Industry Experts are invited to deliver the same

2. Career Guidance

Career Guidance Cell strives round the year as an Industry Interface and Subject Experts are called upon to share their experiences in terms of Know-how of Industry requirements as a part of Guest Lectures

3. Infrastructure for Placement Drives

- a) Career Guidance Cell has a well equipped Seminar hall to enable the Pre Placement Talk and student orientation on the respective company.
- b) A Digital Lab is made available with highly configured computer systems to cater online testing requirements during the Campus Drive selection process.

Academic Year	Name of the Training Partner
2022-23	TTLS (Train to learn Skills) Pvt Ltd
2021-22	TTLS (Train to learn Skills) Pvt Ltd
2021-22	Enroots Training Academy Pvt Ltd
2020-21	Equip Learning Solutions Pvt Ltd
2020-21	Equip Learning Solutions Pvt Ltd
2019-20	Imparta Training Solutions pvt ltd
2019-20	Imparta Training Solutions pvt ltd
2018-19	Imparta Training Solutions pvt ltd
2018-19	Imparta Training Solutions pvt ltd

Placement Process and Support

- The training wing of the placement cell designs a tailor made program as per the Industry requirements. A gradual program that includes Life Skills, Language Skills and Soft skills is executed at elementary level and lateral years are being trained on Aptitude Skills comprising Quant, Verbal and Reasoning with a brush up of Interview Etiquettes are

conducted to transform a prospect job ready thereby increasing their employability quotient.

- A technical brush up session as a crash course is conducted as and when any core company is expected.
- As an initiative of Industry-Academia Interface, Eminent Industry experts are invited periodically to deliver expert talk. Trending topics viz Robotics, Artificial Intelligence, Machine Learning, Cyber Security, Data Analytics, C2C Campus To Corporate are covered under the said initiative.

Recruitment Process

1. A Placement Bank is prepared with a pre diagnostic analysis as per the academic scores.
2. Campus Drive Invitation is channelized in the client network and the requirement is sought accordingly.
3. Profile sheet is prepared as per the eligibility criteria of the said company.
4. Campus Drive mode is then finalized considering various factors viz no of eligible students, availability of team and mode is fixed i.e. Off Campus / On Campus.
5. Once the recruitment process commences, the list of shortlisted or selected students is obtained from the Client Company.
6. In order to avoid drop outs chances a second phase of counseling is done to the selected students on the joining formalities and other terms & conditions of the said company
7. Joining dates are informed to the selected students accordingly.
8. On successful completion of entire process offer letter or selection mail from the company is filed duly.

Table: Placement details for 2018 – 22 batch

S No	Company Name	Total Number of Students Placed					Total Placed
		CSE	ECE	EEE	CE	ME	
1	Infosys 5.0 LPA	2	1	0	0	0	3
2	Eleation 4.2 LPA	0	0	0	4	1	5
3	TCS 3.36 LPA	2	1	0	0	0	3
4	Capegemini 4.0 LPA	2	5	0	1	0	8
5	Wipro 3.5 LPA	3	0	0	2	0	5
6	Q Spiders 3.0 LPA TO 5.0 LPA	6	8	2	1	1	18
7	KRAS ,30K PM	0	21	11	0	17	52
8	CSS Corp 3.75 LPA	6	3	0	0	1	10
9	Hexaware 3.5 LPA	2	0	1	0	0	3
10	Mind Tree 3.5 LPA	0	1	0	0	0	1

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11	Cyient 2.75 LPA	0	0	3	0	0	3
12	Infoane 5.0 LPA	5	2	0	0	0	7
13	CGLIA 5.0LPA	3	0	0	0	0	3
14	Surya Tech Solutions 18 to 42k	0	8	8	0	0	16
15	Medico 1.8 to 2.4 LPA	10	14	14	0	0	38
16	Cigniti 4.0 LPA	2	2	0	0	0	4
17	Pop Corn Apps 3.5 LPA	2	1	0	0	0	3
18	QualiT labs 3.6 LPA	6	0	7	1	0	14
19	Innovacx 4.16 LPA	3	0	0	0	0	3
20	Sri Sai Associates 14K PM	0	0	0	3	0	3
21	Pentagon Space Pvt Ltd 3.6 LPA	4	1	1	0	0	6
22	ATOS 3.39 LPA	1	0	0	0	0	1
23	Turing Minds 5.0 LPA	1	0	0	0	0	1
24	Packetprep 3.0 LPA	3	0	0	0	0	3
24	Kanerika 3.0 LPA	1	0	0	0	0	1

Table: Placement details for 2017 – 21 batch

S.No	Company	Total Number of Students Placed					Total Placed
		CSE	ECE	EEE	CE	ME	
1	24/7 Pvt Ltd 5 LPA	0	2	0	0	0	2
2	7x Ventures 2 LPA	1	0	0	0	0	1
3	Accenture 4.5 LPA	5	0	0	0	0	5
4	ADP Technologies 5LPA	1	0	0	0	0	1
5	Blueyonder	1	0	0	0	0	1
6	CORESTACK	1	0	0	0	0	1
7	BYJUS 2.4 LPA	0	4	0	0	0	4
8	CAPGEMINI 3.2 LPA	0	1	0	0	0	1
9	CONGNIZANT 2.8LPA	3	0	0	0	0	3
10	CYIENT 1.4 LPA	0	0	0	1	0	1
11	DARWINBOX	2	0	0	0	0	2
12	ELK STUDIOS	2	0	0	0	0	2
13	DELOITTE 2.5LPA	1	0	0	0	0	1

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14	ENTERSOFT	1	0	0	0	0	1
15	FACE PREP 3.05LPA	8	7	0	0	0	15
16	Fujitsu Consulting India Private Limiuted , 3 LPA	1	0	0	0	0	1
17	Formonic Technologies Private Ltd , 1.8 LPA	0	0	0	9	0	9
18	GUS EDUCATION	1	0	0	0	0	1
19	GLOBAL ESMART TECH , 1.4 LPA	3	0	0	0	0	3
20	Innovacx ,3 LPA	2	0	0	0	0	2
21	INSPIRE	1	0	0	0	0	1
22	Internshala ,3.2 LPA	0	0	1	0	0	1
23	LTI	1	0	0	0	0	1
24	MECHTURBO,1.4 LPA	0	03	0	0	00	3
25	Medconverge , 2 LPA	3	6	1	0	0	10
26	Medico Healthcare Services & Technologies , 2.0 LPA	0	5	0	0	0	5
27	Metafin Consulting INDIA PVT LIMITED , 1.4 LPA	0	0	0	0	01	1
28	MILLENNIUM TECH , 3 LPA	3	0	0	0	2	5
29	Prathi Raj Metal Works , 1.6 LPA	0	0	0	0	3	3
30	Qspiders , 3.6 LPA	5	8	2	0	0	15
31	SPRUCE	2	0	0	0	0	2
32	SENTINI GEOSOL(P) LTD	2	0	0	0	0	2
33	SI INNOVATIONS PVT LTD , 1.4 LPA	2	0	01	0	0	3
34	SMART SELECT,	0	0	0	3	0	3

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	3.5 LPA						
35	Surya Tech Solutions , 3.8 LPA	0	20	26	0	5	51
36	SMART SELECT, 3.5 LPA	0	1	0	0	0	1
37	TCS , 3.5 LPA	4	0	0	0	0	3
38	Trianz . 3.8 LPA	1	0	0	0	0	1
40	TECHNICS	1	0	0	0	0	1
41	TECH MAHINDRA	1	0	0	0	0	1
42	Unistring Tech Solutions , 2.8 LPA	0	3	2	0	0	5
43	UR Protech , 1.8 LPA	0	1	0	0	0	1
44	ZEE Enterainment Enterprises LTD , 3 LPA	1	0	0	0	0	1
45	ZENSAR	1	0	0	0	0	1

Table: Placement details for 2016 – 20 batch

S.No	Company	Total Number of Students Placed					Total Placed
		CSE	ECE	EEE	CE	ME	
1	Aboveo Services Pvt Ltd, 1.8 LPA	0	0	0	0	1	1
2	Accenture Solutions Pvt Ltd, 1.8 LPA	1	0	0	0	0	1
3	ACD Communication Pvt Ltd, 1.8 LPA	0	0	0	0	1	1
4	Alliens Group, 3.121LPA	0	6	0	0	0	1
5	BROADRIDGE	2	0	0	0	0	2
6	Byjus, 7 LPA	1	1	0	0	1	3
7	CAPGEMENI	2	0	0	0	0	1
8	CEDGE TECHNOLOGIES	1	0	0	0	0	1
9	Cognizant Technology Solutions India Pvt Ltd, 2.4 LPA	1	0	0	0	0	1
10	CLOUD 4 CSERVICES PVT	1	0	0	0	0	1

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	LTD						
11	CQX	1	0	0	00	0	1
12	Cyient Ltd, 3.5 LPA	0	2	0	0	1	3
13	Draft Japan, 3.05 LPA	1	0	0	0	0	1
14	Eleation, 2.4 LPA	1	0	0	0	0	1
15	Esoft Labs, 3 LPA	0	0	1	0	00	1
16	Examity, 2.2 LPA	0	0	1	0	0	1
17	Extramarks, 12.5 LPA	0	0	0	0	1	1
18	EY Global Delivery Servicesllp,3.3LPA	0	2	0	0	0	2
19	GLOBAL LOGIC	1	0	0	0	0	1
20	GLOBAL ESMART TECH , 1.4 LPA	0	0	0	0	3	3
21	SINNOVATIONS	3	0	0	0	0	3
22	Indian Agro & Food Industries Limited, 1.5 LPA	0	0	0	1	0	1
23	Intellect Desing Arena Ltd, 3 LPA	0	1	0	0	0	1
24	Jangir Engineering Works,1.8LPA	0	0	0	0	2	2
25	JEW PVT LTD, 4.2 LPA	0	0	0	0	2	2
26	KPI SOFT Technologies Private Limited, 3.5LPA	0	0	0	0	1	1
27	KPIT, 3.6 LPA	0	0	1	0	0	1
28	Laxmi Hundai, 1.2 LPA	0	0	0	0	5	5
29	Log It One, 3 LPA	2	0	0	0	0	1
30	MECHTURBO,1.4 LPA	0	1	2	0	0	3
31	Medico Healthcare Services, 2.2 LPA	7	20	5	6	4	42
32	MILLENNIUM TECH , 3 LPA	3	0	0	0	0	3
33	MOTIVITY LABS	1	0	0	00	0	1
34	NTT Data, 3.5 LPA	0	0	1	0	0	1
35	Opt IT Technologies Pvt Ltd , 2 LPA	0	0	0	0	1	1
36	Pragmaedge Software Servises	2	2	0	0	0	4

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	Pvt Ltd,3 Lpa						
37	Prodapt Solutions Pvt Limited, 3.5LPA	1	0	0	0	0	1
38	Ram Group, 2.4LPA	0	0	1	0	0	1
39	RMSI Pvt Limited, 2.24 LPA	0	0	0	1	0	1
40	RESORCE ONE IT SOLUTIONS	5	0	0	0	0	4
41	RCM TRAINEE ASSOCIATE	3	0	0	0	0	3
42	Shivam Microsoft Services,3.5LPA	0	1	0	0	0	1
43	SI INNOVATIONS PVT LTD , 1.4 LPA	1	2	0	0	0	3
44	Silver Peak Global, 3.5LPA	1	0	0	0	0	1
45	SMART SELECT , 3.1 LPA	1	1	3	0	0	5
46	Sri Jaiveer Infra Projects , 3.4 LPA	0	0	0	1	0	1
47	Suneratech Private Limited, 3.6LPA	1	0	0	0	0	1
48	SYKES Business Services Of India Pvt Ltd, 3.8 LPA	0	1	0	0	0	1
49	THOMSON REUTERS	2	0	0	0	0	2
50	TCS, 2.7 LPA	2	0	0	0	0	2
51	Tech Mahindra Ltd,2.1LPA	1	1	0	0	0	2
52	Trianz Digital Consulting Pvt Ltd, 3.8 LPA	1	0	0	0	0	1
53	Varcas Automobile Pvt Ltd, 1.8 LPA	0	0	0	0	1	1
54	Whitehat,4.5LPA	0	1	0	0	0	1
55	Wipro Ltd, 3.8 LPA	2	1	0	0	0	1
56	ZEE EXTRAORDINARY	1	0	0	0	0	1
57	Surya Tech Solutions	0	9	0	0	0	9

Table: Placement details for 2015 – 19 batch

S.No	Company	Total Number of Students Placed					Total Placed
		CSE	ECE	EEE	CE	ME	
1	[24]7.ai , 3 LPA	2	0	0	0	00	1
2	Accenture , 4.5 LPA	1	1	0	0	0	2
3	Ascent Business Solutions , 3.58 LPA	1	0	0	0	0	1
4	C3i SOLUTIONS , 3.2 LPA	1	1	0	0	00	1
5	Cenerg Global Tools , 2.55 LPA	0	0	0	0	1	1
6	Cognizant ,. 2.8 LPA	0	1	0	0	0	1
7	Evoke Technologies , 4.5 LPA	0	1	0	0	0	1
8	Genpact , 2 LPA	1	0	0	0	0	1
9	GLOBAL ESMART TECH ,1.4 LPA	0	3	0	0	0	3
10	Info search Ites PVT LTD , 2.24 LPA	2	0	0	0	0	2
11	LOOP AND CO , 3 LPA	0	2	0	0	0	2
12	MECHTURBO,1.4 LPA	0	0	1	0	2	3
13	Medico Health Care Service & Technologies , 3 LPA	9	6	5	0	1	21
14	MILLENNIUM TECH , 3 LPA	2	0	1	0	0	3
15	Mroads off , 3 LPA	2	0	0	0	0	2
16	NB Healthcare	2	0	0	0	0	2

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	technologies pvt ltd						
17	Prokarma Softech PVT LTD , 2.7 LPA	0	1	0	0	0	1
18	R1 RCM Global PVT LTD , 1.85 LPA	0	1	0	0	0	1
19	Revalsys , 2.4 LPA	0	1	0	0	0	1
20	SAP Global Edu , 1.9 LPA	0	1	0	0	0	1
21	Seva Supreme Detective & Security Services , 2.5 LPA	5	0	0	0	0	1
22	SI INNOVATIONS PVT LTD , 1.4 LPA	0	0	0	1	2	3
23	SMART SELECT , 3.1 LPA	0	1	0	0	0	1
24	SRI JAIVEER INFRA PROJECTS , 3.4 LPA	0	0	0	1	0	1
25	Surya Tech Solutions , 2.2 LPA	0	23	6	0	0	29
26	Tata consultancy Services , 3.9 LPA	0	2	0	0	0	2
27	Tech Mahindra , 1.8 LPA	0	0	0	0	1	1
28	TECHRUPLE	5	0	0	0	0	5
29	Webhelp India , 3.3 LPA	0	0	0	0	1	1
30	Wipro , 3.36 LPA	1	2	0	0	0	3
31	YAXIS	1	0	0	0	0	1

9.6 Entrepreneurship Cell (5)

Entrepreneurship Development Cell, Samskruti College of Engineering and Technology (EDC) is a non-profit student's organization dedicated to promote the spirit of entrepreneurship among students.

An **Entrepreneurship Development Cell (EDC)** was established in our institute to:

- Organizing Entrepreneurship Awareness Camps, Entrepreneurship Development Programmes.
- Arranging visits to industries for prospective entrepreneurs.
- Preparing proposal to grant from the government agency to promote entrepreneurship in the Campus.
- Guiding and Assisting students on various aspects such as preparing project reports, obtaining project approvals, loans and facilities from agencies of support systems and information on various technologies.
- Providing testing, calibration, quality assurance, design, tool room, pilot plant and other facilities for Entrepreneurs besides expertise in Intellectual Property rights, Patents search, etc.
- Providing students, the professional and Industry exposure.
- Guiding students regarding the various government schemes to support entrepreneurship.
- To create an environment for self-employment and entrepreneurship development through teaching and training programmes.
- To develop management personnel at appropriate levels for the non-corporate and unorganized sectors like retail, rural development, small-scale industry etc.
- To promote employment opportunities through skill development.

The EDC is managed by an institutional committee comprising of:

S.No	Name	Actual Designation	Department	Designation in the Committee
1.	Dr J.Govardhan	Principal	-	Chairman
2.	Dr B.Aarathi	Professor & HOD	MBA	Coordinator
3.	Mr M.Sreenivasulu	Associate Professor & HOD	ECE	Member
4.	Mr A.Suresh Kumar	Associate Professor & HOD	EEE	Member
5.	Mr B.Gopichand	Associate Professor	ME	Member
6.	Mr M.Rajeshwar Reddy	Associate Professor & HOD	H&S	Member
7.	Mr P M B Rajkumar	Associate Professor	CE	Member
8.	Mr K.Vamshee Krishna	Assistant Professor & HOD	CSE	Member

9.7 Co-Curricular and Extra-Curricular Activities

Co-Curricular Activities:

Complimentary to the regular academic courses being taught to students as per the JNTUH curriculum, this institute conducts a large number of co-curricular activities aimed at filling the gaps in curriculum, overall knowledge development of students towards the attainment of professional goals and enhances the employability. These fall under the broad categories of:

Note: The details of co-curricular activities are presented in criteria 4

Extra-Curricular Activities:

Overall development of the students is never complete without generating interest and practicing sports and different forms of arts. Annual cultural & Sports festival are a regular feature of the institute through:

Fresher's Day Program

A Techno-cultural event conducted by II year students to welcome I year students

Farewell Day Program

A Techno-cultural event conducted by III year students to bid farewell to outgoing students from IV year.

NSS

Under the National Service Scheme our students regularly organize Blood donation camps, Medical camps, Tree Plantation and community awareness programs.

Bathukamma

Celebrated by all the students & staff to bring and set the tone of festive celebrations towards Dusshera and to join with Telangana State pride festival Bathukamma, with stacking flowers, song's and dance.

Haritha Haaram

Students take active part in Haritha Haram, the afforestation drive of Telangana government.

Swachch Bharath Program

A Program conducted to promote awareness on cleanliness and hygiene, activities are performed inside and outside the college premises.

Women's Day

Women's day is celebrated every year to enhance the beauty of womanhood.

Outdoor Sports Facilities:

- Basket Ball Ground
- Volley Ball Ground
- Throwball Ground
- Kabaddi Ground
- Cricket Ground
- Tennikoit Court

Indoor Games:

- Chess
- Table Tennis
- Carrom

NSS Activities:

Under the National Service Scheme our students regularly organize Blood donation camps, Medical camps, Tree Plantation and community awareness programs in rural areas around

Name of the activity	Organising unit/ agency/ collaborating agency	Name of the scheme	Year of the activity	Number of students participated in such activities
Health and fitness awareness camp	SCET AND NSS UNIT	NSS	06.01.2017	18
Igniting young minds	SCET AND NSS UNIT	NSS	27.01.2017	41
Debate on gender equity	SCET AND NSS UNIT	NSS	06.02.2017	18
Jam session on violence against woman and girls	SCET AND NSS UNIT	NSS	18.02.2017	18
Road safety	SCET AND NSS UNIT	NSS	04.03.2017	59
World no tobacco day	SCET AND NSS UNIT	NSS	31.05.2017	58
World environmental day	SCET AND NSS UNIT	NSS	05.06.2017	56
Haritha haram programme	SCET AND NSS UNIT	NSS	03.07.2017	59
World population day	SCET AND NSS UNIT	NSS	11.07.2017	59
Literacy day	SCET AND NSS UNIT	NSS	08.09.2017	55
Eco-friendly Ghanesh	SCET AND NSS UNIT	NSS	09.09.2017	58
National Service Scheme day	SCET AND NSS	NSS	23.09.2017	59

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	UNIT			
Swachh Bharath	SCET AND NSS UNIT	NSS	03.10.2017	56
Constitution day	SCET AND NSS UNIT	NSS	25.11.2017	57
Worlds AIDs day	SCET AND NSS UNIT	NSS	01.12.2017	60
Save Girl Child	SCET AND NSS UNIT	NSS	24.01.2018	56
National voters day	SCET AND NSS UNIT	NSS	25.01.2018	59
Road safety	SCET AND NSS UNIT	NSS	03.03.2018	61
World no tobacco day	SCET AND NSS UNIT	NSS	31.05.2018	59
World environmental day	SCET AND NSS UNIT	NSS	05.06.2018	60
Haritha haram programme	SCET AND NSS UNIT	NSS	09.07.2018	57
World population day	SCET AND NSS UNIT	NSS	11.07.2018	59
Literacy day	SCET AND NSS UNIT	NSS	08.09.2018	59
Eco-friendly Ghanesh	SCET AND NSS UNIT	NSS	11.09.2018	61
National Service Scheme day	SCET AND NSS UNIT	NSS	24.09.2018	60
Swachh Bharath	SCET AND NSS UNIT	NSS	03.10.2018	59
Constitution day	SCET AND NSS UNIT	NSS	26.11.2018	59
Worlds AIDs day	SCET AND NSS UNIT	NSS	01.12.2018	57
Save Girl Child	SCET AND NSS UNIT	NSS	24.01.2019	58
National voters day	SCET AND NSS UNIT	NSS	25.01.2019	59
Road safety	SCET AND NSS UNIT	NSS	04.03.2019	59
World no tobacco day	SCET AND NSS UNIT	NSS	31.05.2019	57
World environmental day	SCET AND NSS UNIT	NSS	04.06.2019	58
World population day	SCET AND NSS UNIT	NSS	11.07.2019	58
Haritha haram programme	SCET AND NSS UNIT	NSS	19.07.2019	59
Literacy day	SCET AND NSS UNIT	NSS	07.09.2019	57

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National Service Scheme day	SCET AND NSS UNIT	NSS	24.09.2019	58
Eco-friendly Ghanesh	SCET AND NSS UNIT	NSS	01.10.2019	59
Swachh Bharath	SCET AND NSS UNIT	NSS	03.10.2019	57
Constitution day	SCET AND NSS UNIT	NSS	26.11.2019	58
Worlds AIDs day	SCET AND NSS UNIT	NSS	30.11.2019	59
Save Girl Child	SCET AND NSS UNIT	NSS	24.01.2020	59
national voters day	SCET AND NSS UNIT	NSS	25.01.2020	57
Literacy day	SCET AND NSS UNIT	NSS	08.09.2021	57
Eco-friendly Ghanesh	SCET AND NSS UNIT	NSS	09.09.2021	56
Wearing mask and social distancing	SCET AND NSS UNIT	NSS	14.09.2021	57
National Service Scheme day	SCET AND NSS UNIT	NSS	24.09.2021	57
Clean India Programme	SCET ,NSS UNIT & Nehru yuva kendra R.R dist	NSS	25.10.2021	57
Yoga Day Celebrations	SCET And NSS Unit	NSS	01.11.2021	60
Blood Donation Camp	INDIAN RED CROSS SOCIETY AND NSS UNIT	NSS	12.11.2021	149
Constitution day	SCET AND NSS UNIT	NSS	26.11.2021	56
Worlds AIDs day	SCET AND NSS UNIT	NSS	01.12.2021	57
COVID -19 Vaccination	NARAPALLY PHC AND NSS UNIT	NSS	09.12.2021	134
Swatantra Bharath Vajrotsvalu	SCET And NSS Unit	NSS	11.08.2022	50
Eco-friendly Ghanesha (Matti Ganapthulu)	SCET AND NSS UNIT	NSS	30.08.2022	50
NSS Day Celebrations	SCET And NSS Unit	NSS	24.09.2022	50
Health awareness Camp	SCET And NSS Unit	NSS	24.09.2022	40
Kill Cancer Competition	ISKCON Kukatpally And NSS Unit	NSS	11.10.2022	20
Constitution Day	SCET And NSS Unit	NSS	26.11.2022	100
Voters Awareness Program	SCET And NSS Unit	NSS	03.12.2022	300
Unite for Her Conclave	TS Police Department And NSS Unit	NSS	20.12.2022	350



Fig : Distribution of Eco-friendly Ganesh Idols



Fig: Blood Donation Camp



Fig: COVID-19 Vaccination Drive



Fig : Bathukamma Festival Program – The Telangana Traditional Festival



Fig : Kill Cancer Competition in association with ISKCON Hyderabad



Fig: Samskruti Sankranti Sambaralu



Fig: Nation Building Competition on the eve of Republic Celebrations



Fig: Yoga Day Celebrations

**10 GOVERNANCE, INSTITUTIONAL SUPPORT AND FINANCIAL RESOURCES
(120)****10.1 Organization, Governance and Transparency (40)****10.1.1 State the Vision and Mission of the Institute (5)**

Vision:
To be an Institution moulding globally competent professionals as essence of noble values.
Mission:
To transform the young generation as technically competent, ethically sound and socially committed professionals by providing a vibrant learning ambience, for the welfare of Society.

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

Table: List of Governing Council Members

S.No	Name of the Governing Body Member	Governing Body Member Designation	Parent Organization where working	Designation of the member where working at parent Organization
1	Dr M Venugopal	Chairman	Megha Inst. Of Engineering and Technology for Women, Ghatkesar	Principal
2	Sri A V Ramana Reddy	Member to be nominated by Registered Society / Trust	St. Vincent Educational Society	President
3	Sri M Rajendra Krishna	Member to be nominated by Registered Society	St. Vincent Educational	Gen. Secretary

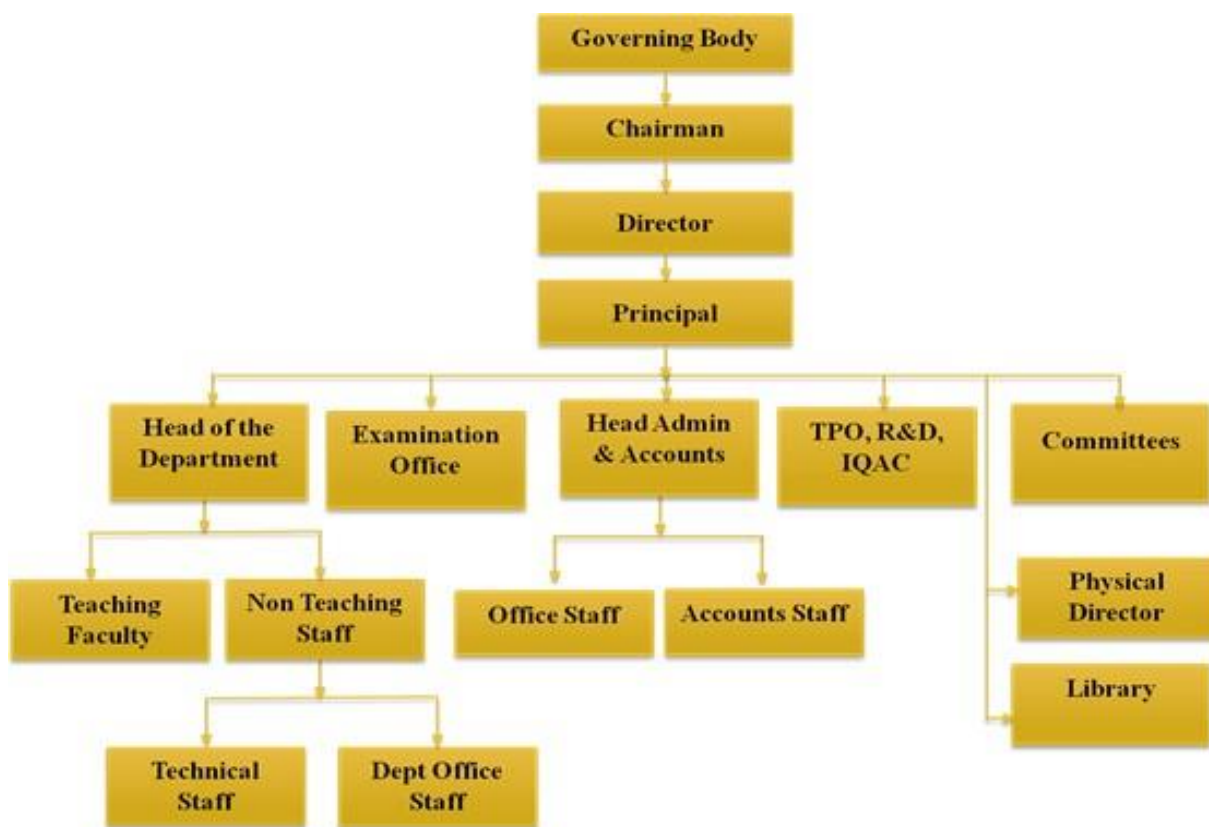
		/ Trust	Society	
4	Mrs A Prameela	Member to be nominated by Registered Society / Trust	St. Vincent Educational Society	Joint Secretary
5	Sri M Purushotham Reddy	Member to be nominated by Registered Society / Trust	St. Vincent Educational Society	Member
6	Dr G V Satyanarayana Rao	Eminent Professional	BHEL, Trichy	AGM, Retired
7	Dr P Aravinda Reddy	Eminent Professional	Samskruti College of Pharmacy	Principal
8	Dr D Eshwar	Academician	Kommuri Pratap Reddy Institute of Technology	Principal
9	Dr M.Ramakanth Reddy	Academician	Samskruti College of Engineering & Technology	Director
10	Dr. P. Swetha	University Nominee	Jawaharlal Nehru Technological University Hyderabad	Professor of Computer Science and Engineering, JNTUH CEJ
11	Dr. GOVARDHAN JANGIRALA	Member Secretary [Principal (ex- officio)]	Samskruti College of Engineering & Technology	Principal

Functions of the Governing Body:

The Governing Body has been constituted as per JNTUH norms and is the supreme administrative body of the institution.

- To participate and approve the vision and strategic mission statements of the institute.
- To formulate the policies of the institution with regard to academics, R &D and other activities.
- To discuss and suggest the annual budgetary allocation towards infrastructure, Academic, and Research & Development.
- To monitor the progress of academic and other related activities of the college.
- To approve the recommendations of the Staff Selection Committee.
- To approve the important decisions and amendments as required by the institute.
- To suggest the innovative ideas in improving the quality of the education.

Fig: Organization Chart



Position	Functions
Management Committee	Chief patron of the Institution. These are the Executive Trustees and Members of the GB. They are the final authority for annual (financial) budget allocations and all related approvals. They hold signatory roles in major administrative, recruitment, purchase, expansion, and Policy decisions of the Institution.
Chairman Governing Council	Chairman is the Chief Mentor of the Institution, and heads the Governing Body (GB). He is the final authority to provide final approval for all major policy matters on expansions, collaborations, financial outlays, budgetary allocations and major admin related decisions. Motivate and support the administration to make our Institute an outcome-based institution.
Principal	He functions as the Head of the Institution and is the Member-Secretary of the GB. He is responsible for overall development of the Institution Ensure that the attainment of vision of the Institution through strategic mission. Define quality policy and objectives. Define & delegate responsibilities of various positions in the organization. He is the final authority for all academic, admission, administrative, co- curricular and extracurricular, research, placement, innovation, resource mobilization, planning and development, recruitment. He also coordinates the needs of meeting statutory and regulatory requirements of the government (AICTE, UGC, DTE) and University (JNTUH). He channelizes the growth and benchmarking activities of accreditation (NBA/NAAC) processes for the institute. He is the single point of contact (SPOC) for external bodies (industries, academia, regulators, institutions / organizations, companies) and also for stakeholders: industries, parents and alumni. He develops roadmap(s) for the institute, in consultation with his team and disseminates it to all concerned for development of the Institution.

Administrative Officer	Overall, in-charge to execute different Office Administrative sections i.e., Accounts, Admissions, Scholarships and coordinates Governing Body meetings. Liaising with AICTE, DTE and University. Service Books, Faculty personal files & Recruitment process. Co-ordinate day to day activities of office. Purchase process & payments Preparation of Annual College budget.
I/C Examinations	Carry out result analysis and submit corrective measures to Principal Prepare Internal and External examination time table schedules Conducts Internal examinations evaluation process.
Training & Placements Officer	T & P is solely responsible for planning, connecting, organizing, culminating all activities leading to placement needs of the graduating students. He / She develops and nurtures contacts / connects with industries / companies / organizations / alumni database in view of placement needs. He / She ensures the smooth coordination with various stakeholders required for the process of placements. He / She initiates the process of feedback collection from the visiting companies/organizations for offering placement and shares with concerned departments for better understanding and possible improvements in the subsequent sessions/years. He / She coordinates activities for pool-in placement drives Facilitate career guidance to the students. He / She significantly contributes in building brand value of the Institution.
I/C Library	The Librarian is responsible for the resources of Library and information Centre comprising of assets in both hard and soft forms. The associated duties are: He / She envisages the plans, initiates actions for addressing all possible needs of primary stakeholders - students, teachers (via identifying and ordering books, reference material, journals, online resources, issue of resources and maintain of records). He /She with their team undertakes series of tasks towards optimal utilization and for maintenance of the library. Maintain library discipline and culture Prepare annual budget for library.

Physical Director	Ensure smooth conduct of sports Purchasing of sports items. Encourage students to participate in zonal tournaments. Conduct training camps. Creation and upkeep of sports facilities Proposing annual budget.
Head of Departments	He / She is the functional and administrative head of the concerned department. He / She ensures the smooth running of the concerned department by laying goals and milestones of the department. Vision and Mission statements too are chalked out for streamlining all further actions. HOD builds and leads the team of required numbers of faculty members (Professors, Associate Prof and Assistant Prof), staff (Lab Instructors, Lab Assistants, Admin staff) and students - II, III and IV year in case of CSE, ECE, EEE, Mech, Civil and MBA {I and II year} departments) and I Year in case of Mathematics, Physics, Chemistry departments. The HOD ensures planning, execution, troubleshooting of all academic activities (theory and lab classes), examination (CIE) along with supporting smooth conduction of JNTUH examinations, research and publication, projects and developmental activities. He/she coordinates intra (with IIIC, T & P and other depts./ centers at the institute) and inter (with other academia and industries) institutional communicational roles. HOD plans and organizes events (conference, seminars, workshops, training) and conducts industrial visits and guest lectures for the benefit of dept. (students and faculty members). He / She organizes meetings with stakeholders (particularly parents) in the form of PTM.

Directed by the vision of the Institution, an effective plan of action is evolved to define and evolve and elaborate agenda for the college. Several Committees are formed both at the college and department level for planning and monitoring operations of academics, financial and administrative matters.

1. College Academic Committee (CAC)
2. Internal Quality Assurance Cell (IQAC)
3. Faculty Development Committee (FDC)
4. Research & Development Committee (RDC)
5. Institute Industry Interaction Committee (IIIC)
6. Training, Placement & Career Guidance Committee (TPCGC)

7. Finance and Purchase Committee
8. Disciplinary Committee (DC)
9. Sports and Cultural Committee (SCC)
10. Grievances Redressal Committee (GRC)
11. Transport Committee (TC)
12. Women Protection Cell (WPC)
13. Department Academic Committee (DAC)
14. Library Committee (LC)
15. Canteen Committee (CC)
16. Anti-Ragging Committee (ARC)

Roles and responsibilities of different committees.**1) College Development Committee (CDC)**

The college development committee has major role to play in strategic planning and development of the college, like Infrastructure & budgetary planning and review of college academic environment and functioning. The committee will meet twice in a year and finalize proposals that are necessary to be placed before the Board of the Governors.

Composition of Committee

Management trustee Chairman	Chairman
Director	Member
Principal	Member
Administrative Officer	Member

Functions:

1. Principal, after receiving the proposals for the budgetary requirements from Heads of the Departments, scrutinizes and place them before this committee for discussions and finalization.
2. Reviews the reports of college Academic committee regarding the academic activity during the year.
3. Recommends proposals for infrastructural improvement/strengthening.
4. Submits budgetary proposals to the Board of Governors for consideration in respect of overall developmental needs of the college.
5. Acts as a link between BoG and college administration.

2) Internal Quality Assurance Cell (IQAC)**Composition of Committee**

Principal	Chairman
Management trustee	Member
Senior Staff member	IQAC Coordinator
Administrative Officer	Member
Head of the Departments	Members
Student Nominee (Alumni)	Member
Nominee from Industry	Member

Functions:

1. Development and application of quality benchmarks/parameters for the various academic and administrative activities of the Institute.
2. Arrangement for feedback responses from students, parents and other stakeholders on quality-related institutional processes.
3. Dissemination of information on the various quality parameters of higher education.
4. Organization of inter and intra institutional workshops, seminars on quality related themes and promotion of quality circles.
5. Documentation of the various programmes/activities of the Institute, leading to quality improvement.
6. Development and maintenance of Institutional database through MIS for the purpose of maintaining /enhancing the institutional quality.
7. Development of Quality Culture in Institute.

3) Faculty Development Committee (FDC)**Composition of Committee**

Principal	Chairman
Director	Member
All Heads of the Department	Members

Functions:

1. Formulate the guidelines for faculty development.
2. Recommend the deputation of staff members for higher studies.

3. Review the progress of staff improvement on.
4. Conduct staff orientation program also.

4. Research & Development Committee (RDC)

Composition of Committee

Principal	Chairman
In-charge R&D	Member
All Heads of the Department	Members
R & D coordinator from each department	Members

Functions:

1. The committee Meets twice in a semester.
2. Consider proposals for R&D projects funding.
3. Guide the departments in submitting R & D proposals to the R&D agencies for funding.
4. Review the progress of R& D projects if any.

5. Institute Industry Interaction Committee (IIIC)

Composition of Committee

Principal	Chairman
In-charge R&D	Member
All Heads of the Department or nominated by HOD	Members
Training and Placement officer	Member

Functions:

1. The Institute Industry Interaction Committee will meet at least twice in a semester.
2. Identify the needs of small-scale industry and identify the staff to help SSI/MSI.
3. Arrange a get together at least once every year to discuss institute industry interaction.

6. Training, Placement & Career Guidance Committee (TPCGC)**Composition of Committee**

Principal	Chairman
Training and Placement officer	Convenor
One faculty nominated from each department for coordination	Members
Two students from each department nominated by Principal	Student Members

Functions:

1. Each department will identify a group of industries to be invited on to the campus.
2. Each department nominates two students to work as volunteers during the conduct of campus interviews.
3. Formulate action plan to be implemented in arranging special training program for soft skills, mock interviews etc.
4. Counsel the students to choose a professional career.
5. Collect information on higher education opportunities and conduct awareness programs.
6. Collect student data on GRE TOFEL etc.
7. Maintain data bank of Alumni.

7. Disciplinary Committee (DC)

Following is the constitution of DC

1. Principal
2. Senior Professor nominated by Principal
3. Head of the Department-by turns on nomination basis

Functions:

- Formulate Ant-Ragging committee at the beginning of each academic year
- Conduct enquiry in case of indiscipline reported by heads/teachers, students or parents and make recommendations to the Principal for implementation.

8. Sports and Cultural Committee (SCC)

Following is the constitution of SCC

1. Principal
2. One staff member nominated by each department
3. Physical Director
4. Student for sports nominated by Principal
5. Student for cultural activities nominated by Principal

Functions:

- Prepare the budget estimates for the conduct of annual events
- Selects the students for the deputation for sports and cultural events outside the college

9. Grievances Redressal Committee (GRC)

Following is the constitution of GRC

1. Principal
2. Director
3. One staff member nominated by Management
4. Administrative Officer
5. Senior nonteaching staff member nominated by Management
6. Four Student Representatives nominated by Principal

Functions:

- Receives complaints/Grievances from teaching and nonteaching & technical staff, Students and Parents.
- Counsel the aggrieved.
- After personal interview, makes appropriate recommendations to the management regarding grievances redressal.

10. Transport Committee (TC)

Following is the constitution of TC

1. Principal
2. Transport In-charge
3. Two staff members nominated by Principal who use bus facility
4. Two student members nominated among the Bus pass holders

Functions:

- Receive the suggestions from transport users
- Make recommendation to the management about purchase and maintenance of fleet of vehicles.

- Review user charges on periodical basis.

11. Women Protection Cell (WPC)

Following is the constitution of WPC

1. Principal
2. Senior male faculty
3. Senior female faculty
4. Senior most non-teaching female staff
5. One student-nominated by Principal

Functions:

- Receive the complaints if any from women employees and students.
- Conduct enquiry on receipt of a complaint.
- Make recommendations to the Principal / Management on the action to be taken against the erring person.

12. Department Academic Committee (DAC)

Following is the constitution of DAC

1. Head of the Department
2. Two Senior faculty
3. One senior most Lab-In-Charge

Functions:

- Meets at least twice in a semester.
- Propose the departmental budget to the administration.
- Receive the applications from teacher under faculty development program and preprocess them and forward to Principal.
- Recommend short term /long term training programs to be conducted by department.
- Prepares the department calendar of events.

13. Library Committee (LC)

Following is the constitution of LC

1. Principal
2. In-Charge Library
3. One member per department nominated by respective HoD

Functions:

- Prepares the list of text books/ journals to be purchased by central library.
- Prepare budget for library and send it to Principal.
- Conduct at least one meeting every semester to review all aspects of library.
- Review the functioning of digital library.
- Guides the Librarian in selecting the books/ journals.

14. Canteen Committee (CC)

Following is the constitution of CC

1. Principal
2. Two staff members nominated by Principal
3. Two non-teaching staff members
4. Two students nominated by Principal.

Functions:

- Inspect the canteen premises periodically.
- Check the sanitation and drinking water and cleanliness of kitchen.
- Check the quality of conducting surprise inspection
- Make recommendations to the management regarding prices of commodities.

15. ANTI-RAGGING COMMITTEE (ARC)

A high-level anti ragging committee is constituted and it is in operation since the establishment of institute. The committee is reconstituted every year.

Following is the constitution of ARC

1. Principal
2. Senior faculty member nominated by Principal
3. All HoDs
4. Physical Directors
5. Police Personnel from local SHO
6. Senior non-teaching staff member nominated by Principal
7. Four students

Functions and Responsibilities

- Taking all precautionary measures to prevent ragging
- Creating awareness among senior students and new entrants

- Immediate action against reported incidents/ complaints
- Nominate monitoring staff in the busses

10.1.3 Decentralization in working and grievance redressal mechanism (10)

Decentralization and Delegation of Powers

Every action is defined in detail.

Responsibilities of every position of the organization is also defined.

Well established system of reporting at regular intervals.

Any innovative activity which is not falling under the existing criteria is entrusted to a team by the governing body.

College Development Committee (CDC) Plans

- Yearly financial budget
- Starting of new courses
- Review of annual progress of academic and financial matters

College Academic Committee (CAC)

- Monitors Teaching Learning process
- Promotes R&D Activities.

Decentralization:

Principal

- Prepares agenda items and conducts Heads meetings
- Provides leadership in all academic & administrative activities
- Initiates and monitors developmental activities
- Prepares and implements institutional budget
- Takes specific measures in achieving long and short-term goals

In-Charge R&D

- Strategic planning for development of the institution
- R&D Activities

In-Charge Students Welfare

- Student participation in technical competitions
- Students participation in cultural activities
- Students participation in sports and Games

Heads of the Departments

- Planning all the departmental activities
- Teaching learning process
- Laboratory developments
- Implementation of policies to realize objectives of the department

GRIEVANCE REDRESSAL CELL

A well-defined institutional mechanism for grievance redress, involving a system of registering, investigating and responding is handled by the cell.

Mechanism:

Stage-1: The grievance cell receives complaints from students through suggestion boxes, online process and during general class-wise meetings held once in a month.

State-2: The complaints collected are pre-processed department-wise and also by nature of complaints. They are then forwarded to the respective departments for redress by specifying time frame.

Statge-3: Depending upon the seriousness of complaints they make an enquiry and suggest remedial methods. If the complainant is not satisfied with the solutions the student can approach the higher authorities, Principal, Director and Chairman. Nature of grievances received in the last few years

1. Academics:

- Subjectivity in evaluation
- Weekly assignments not necessary
- Non coverage of syllabus as per calendar
- Supervision of students undertaking research projects
- Difficulty in understanding some topics
- Authorship and intellectual property
- Quality of teaching
- Apart from the CRT classes Technical Training also required

2. Logistics:

- Inconvenient college timings
- Transport service
- Lunch break timings

3. Discipline and other problems:

- Dress Code
- Food
- Theft Cases
- Disturbance from other students

ANTI-RAGGING CELL

Mechanism:

- Every year few seminars are organized to sensitize the students about the following:
- Friendly relation with new students and academic support and Importance of interpersonal relations.
- Extracurricular activities leading to good relations with seniors.
- Readiness to allow a few informative questions from the juniors.
- Displaying main points of ragging act and punishments.
- Briefing about ragging act to the fresher's and seniors.
- Take undertaking from every student not to be involved in ragging.
- Awareness and consequences of ragging.
- Appointing student mentors from senior students.
- Conducting awareness program by senior police officers/judicial officer.
- Due to the close watch by the anti-ragging committee no single case is noticed by the Institute.

10.1.4 Delegation of financial powers (10)

The governing body of the institution has accorded delegation of financial powers to the Principal and HODs, necessary for day to day functioning of institution and departments.

The Principal has sanctioning power up to Rs.25000/- per month and HODs of Rs.5000/- per month accordingly.

The delegation of financial powers to the Principal and HODs will help the immediate procurement of necessities time to time. The bills of expenditure are submitted in due course of time generally in quarterly basis.

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

(5)

Transparency:

In order to ensure transparency, the college has taken the following measures:

Academic and Administrative Transparency

All faculty members are members in various committees.

All issues are discussed in HoDs meetings, held periodically and minutes are circulated to all staff members.

All decisions taken by the Statutory bodies pertaining to particular items are informed to all the staff.

All the relevant pieces of information are sent to the faculty, staff and students.

There are Notice Boards in all the prominent places through which information is made available to the staff and students and very significant circulars are sent to the classrooms. Academic Results and all the important items are placed on the E-Cap login through College website.

The website has all the academic information like regulations, syllabus, exam time tables, etc.

All the information about the college is displayed on the college web-site.

Every parent can get information about his/her ward's attendance and performance through SMS, letters.

Transparency for Students:

1. University marks and mid marks report
2. Attendance
3. Previous Papers
4. Syllabus
5. Course Structure
6. View Notices
7. Staff Details
8. Alumni Details

Other Details:

- The college has arranged web mail facility to the entire faculty with individual Ids for faster

and more accurate information.

- Uploading college information related to extension of approval by the AICTE
- Making all the relevant documents available at the time of inspection.
- Since the college is not receiving any grant for running the Institution, Right to Information act 2005 does not apply to the college

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

10.2.1 Adequacy of budget allocation (10)

Every year, the Principal, along with the members from various departments, works out a budget plan for smooth operations of the Institution. The budgets are proposed for the next academic year. They are proposed taking into consideration the establishment of new labs if required, purchase of equipment, salaries of faculties, lab maintenance activities, event organization and all other Miscellaneous expenses. The Committee presents the budget proposal to the Management members, who in consultation with the Governing Body and after due diligence, sanctions the budget for the next academic year.

It has been observed that the budgets allocated over the last 3 assessment years were sufficient for the Institution to purchase equipment, maintenance of labs, conducting Workshops, Seminars, Research, Training & Travel etc. The management is allotting the required budget to develop the Institution in all aspects. In addition to this, the Institution has been consistently awarded Approval by AICTE and by JNTUH for admitting students year after year. This shows that the Financial Management of the Institution is as per the required norms.

The following are few of the guidelines that have been given to the Principal and other staff members while proposing for Annual Budgets.

Salaries for staff:

6th pay scale norms have been implemented with DA % and HRA % (negotiation can be done while selecting the candidates)

Non-teaching staff are to be adequately appointed in each of the departments

Lab Maintenance:

Repairs/maintenance of any of the equipment.

Tentative costs for the job.

Library:

Fulfilling AICTE norms is a priority.

Procurement of books for change in syllabi or books.

Training & Travel:

Based on last year's Training & Travel costs and plans for next academic year, budget is to be proposed

Events/Activities/Sports:

Based on last year's Events/Activities/Sports costs and plans for next academic year, budget is to be proposed

Placements:

Based on last year's Placements costs and plans for next academic year, budget is to be proposed

Inputs are taken from Training & Placement Cell for further refining the budgets

Miscellaneous:

All other costs such as Administrative expenses, Campus Maintenance charges, Technology upgradation, Approval costs, Marketing expenses

Summary of current financial 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)

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Table 1 - CFY 2021-22

Total Income 100676640				Actual expenditure(till...): 102520332			Total No. Of Students 1525
Fee	Govt.	Grants	Other sources(specify)	Recurring including salaries	Non Recurring	Special Projects/Any other, specify	Expenditure per student
88096100	0	0	12580540	81539489	19658954	1321889	67226.45

Table 2 – CFYm1 2020-21

Total Income 97811957				Actual expenditure(till...): 90911304			Total No. Of Students 1468
Fee	Govt.	Grants	Other sources(specify)	Recurring including salaries	Non Recurring	Special Projects/Any other, specify	Expenditure per student
79670000	0	0	18141957	79478526	9226978	2205800	61928.68

Table 3 - CFYm2 2019-20

Total Income 74234904				Actual expenditure(till...): 71796711			Total No. Of Students 1163
Fee	Govt.	Grants	Other sources(specify)	Recurring including salaries	Non Recurring	Special Projects/Any other, specify	Expenditure per student
58638000	0	0	15596904	63174187	6712629	1909895	61734.06

Table 4 – CFYm3 2018-19

Total Income: 70954174				Actual expenditure(till...): 94395696			Total No. Of Students 1091
Fee	Govt.	Grants	Other sources(specify)	Recurring including salaries	Non Recurring	Special Projects/Any other, specify	Expenditure per student
62334000	0	0	8620174	69167785	24499011	728900	86522.18

Items	Budget ed in 2022-23	Budget ed in 2021-22	Actual Expenses in 2021-22 till	Budget ed in 2020-21	Actual Expenses in 2020-21 till	Budget ed in 2019-20	Actual Expenses in 2019- 20 till	Budgeted in 2018- 19	Actual Expenses in 2018-19 till
Infrastructure Built-Up	5000000	7900000	7823000	7600000	7585000	3600000	3587443	2000000	0
Library	350000	760000	742556	720000	715900	580000	560600	620000	610083
Laboratory equipment	9000000	1100000	1034480	1500000	1489980	1500000	1489980	1500000	1447544
Laboratory consumables	350000	180000	150000	450000	426800	380000	377500	415000	400639
Teaching and non-teaching staff salary	52000000	50000000	48648000	47000000	46208600	33000000	32350000	25000000	24535350
Maintenance and spares	600000	550000	543951	2500000	2396800	1200000	1171800	4500000	4321816
R&D	500000	0	0	0	0	0	0	0	0
Training and Travel	1550000	1500000	1478731	2700000	2504300	2400000	2280195	870000	866239
Others, Bus Diesel, Repairs & Maintenance	7000000	7000000	6754605	9500000	9262700	8000000	7944993	8400000	8303730
Total	76350000	68990000	67175323	71970000	70590080	50660000	49762511	43305000	40485401

10.2.2 Utilization of allocated funds (15)

The budget sanctioned by the Management of the Institution was effectively utilized. The budgets have been approved after detailed inputs have been taken from all the stakeholders. The fact that the Institution has been consistently receiving zero deficiency report since the inception shows effective utilization of the funds allocated as part of the budgets.

Guidelines are given to the Heads of the Departments regarding the Utilization of Funds allocated under various heads. A sample set of guidelines for conducting Seminars / Conferences / Workshops / Guest Lectures / Association Meetings / Lab maintenance:

1. Honorarium for Resource Persons (not belonging to SCET) Rs. 5000 to Rs. 10,000 per day based on the duration of the delivery of the lecture.
2. Pre-conference/ Meeting Printing (Announcement, abstracts, certificates etc.)
3. Publication of Proceedings (Only for sponsored seminar / conference etc.)
4. Refreshments (Tea, Biscuits)

5. Prizes for student winners for various competitions.
6. All original bills above Rs. 100, vouchers to be submitted.
7. Maintenance and servicing of equipment

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

Yes, the audited statements of last three financial years are available in the college website
www.samskruti.ac.in/engineering

10.3 Program Specific Budget Allocation, Utilization (30)

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 2021-22

Total Budget: 26000000		Actual expenditure (till...): 25299609		Total No. Of Students 379
Non Recurring	Recurring	Non Recurring	Recurring	Expenditure per student
5000000	21000000	4914739	20384870	66753.59

Table 2 :: CFYm1 2020-21

Total Budget: 22500000		Actual expenditure (till...): 22176375		Total No. Of Students 399
Non Recurring	Recurring	Non Recurring	Recurring	Expenditure per student
2500000	20000000	2306744	19869631	55579.89

Table 3 :: CFYm2 2019-20

Total Budget: 17500000		Actual expenditure (till...): 17471703		Total No. Of Students 393
Non Recurring	Recurring	Non Recurring	Recurring	Expenditure per student
1700000	15800000	1678157	15793546	44457.26

Table 4 :: CFYm3 2018-19

Total Budget: 23500000		Actual expenditure (till...): 23416698		Total No. Of Students 381
Non Recurring	Recurring	Non Recurring	Recurring	Expenditure per student
6200000	17300000	6124752	17291946	61461.15

Items	Budgeted in 2022-23	Budgeted in 2021-22	Actual Expenses in 2021-22 till	Budgeted in 2020-21	Actual Expense in 2020-21 till	Budgeted in 2019-20	Actual Expenses in 2019-20 till	Budgeted in 2018-19	Actual Expenses in 2018-19 till
Laboratory equipment	1000000	220000	206896	300000	297996	300000	297996	300000	289509
Software	1300000	0	0	0	0	0	0	0	0
Laboratory consumable	50000	36000	30000	90000	85360	76000	75500	83000	80128
Maintenance and spares	170000	110000	108790	50000	479360	240000	234360	900000	864363
R & D	200000	0	0	0	0	0	0	0	0
Training and Travel	550000	525000	517556	945000	876505	840000	798068	304500	303184
Others, Bus Diesel, Repairs & Maintenance	2500000	2450000	2364112	3325000	3241945	2800000	2780748	2940000	2906306
Total	5770000	3341000	3227354	5160000	4981166	4256000	4186672	4527500	4443489

10.3.1 Adequacy of budget allocation (10)

Every year, the Departmental Core Committee works in coordination with the Principal's office to review the budget needed for smooth operations of the Department. The budgets are proposed for the next academic year. They are proposed taking into consideration the establishment of new labs, purchase of equipments, salaries of faculties, lab maintenance activities, event organization and all other Miscellaneous expenses. The Committee presents the budget proposal to the Management members, who in consultation with the Governing Body and after due diligence, sanction the budget for the next academic year.

10.3.2 Utilization of allocated funds (20)

Funds provided to the departments are properly utilized to develop the infrastructure of the department to achieve better programme outcomes. The process implemented above helps in ensuring meticulous planning is done before the start of the semester. Zero deficiency has been noticed by AICTE and JNTUH after repeated inspections of our facilities. This shows effective implementation of the budgets.

10.4 Library and Internet (20)**10.4.1 Quality of learning resources (hard/soft) (10)**

The library books of current titles, print resources and other relevant learning materials are procured on the recommendations of HODs in consultation with their department staff for better suitability. Upon receipt of a request, scrutiny is conducted in the library to avoid duplication of the same title, if any. Further, the quotations are invited and orders are finalized by the Principal with the approval of the Management. The number of copies and titles are added every year in accordance with the norms and standards set by AICTE/JNTUH from time to time. We are maintaining SC, ST Book Bank Scheme separately. We have Separate Digital Library for e-recourses. The books are arranged according to subject classification and arranged in the library in systematic manner. We have a separate Newspaper section. Separate reference section for text books is also available in the library.

Carpet area of library (in m2)	636.38
Number of seats in reading space	200
Number of users (issue book) per day	80
Number of users (reading space) per day	300
Timings: During working day, weekend, and Vacation	8.30am to 6.00pm 9.00am to 1.00pm
Number of library staff	4
Number of library staff with a degree in Library	2
Library Management Software	ECAP
Computerization for search, indexing	OPAC
Issue/return records bar coding used	YES
Library services on Internet/Intranet INDEST or other similar membership archives	YES
Backup journal volumes	YES

Details of Library Books

Number of Titles and Volumes as on 10-02-2023		
Number of Titles: 5719		
Number of Volumes: 35708		
Financial Year	No. of Titles Added	No. of Volumes Added
2022-23	101	387
2021-22	32	210
2019-20	60	227
2018-19	56	229

Journal Subscription

Financial Year	No. of Total Technical Journals/Magazines subscribed	
	Hard Copy	Softcopy
2021-22	54	J GATE(21018), DELNET(805) Total online journals = 21823
2020-21	54	DELNET(805)
2019-20	66	J GATE(9145), DELNET, NDIGITAL(1178) Total online journals = 10,323
2018-19	119	IEEE MEMBER SHIP, J GATE (9145), DELNET, N DIGITAL (1178) Total online journals = 10,323

Relevance of available learning resources including e-resources

- Books, e-books, e-resources like NPTEL, Digital library, etc. all relevant to the courses, are offered at the college.
- IEEE back volumes and other reputed journals are also kept in the library for the reference sake for the students.

- Technical magazines such as Electronics For you, Computers Today, Digit, etc. are also available for the students to learn beyond the syllabus

Accessibility to Students

- Students can access the resources at the library from 8.30 Am to 6.00 PM.
- All the students are given 3 books. They can renew the books for every 15 days
- Video lectures from NPTEL, e-books are available in the library.

Support to students for Self-Learning Activities

All subject videos are available in the library for self-learning. Students may also access subject related handouts through college website.

10.4.2 Internet (10)

Name of the Internet provider	GTPL
Available band width	100
WiFi availability	Yes
Internet access in labs, classrooms, library and offices of all Departments	Yes
Security arrangements	Yes

Annexure I
(A) PROGRAM OUTCOME (POs)

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	Professional Skills: Understand, analyze and develop software solutions.
PSO2	Advanced Computing Skills: Provide solutions for real world problems with a broad range of programming languages and open source platforms in various computing domains.
PSO3	Interdisciplinary Solutions: Apply standard principles, practices and strategies for software development.

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 in force as on date and the institution shall 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 will be initiated by the NBA. In case, any false statement/information is observed during pre-visit, visit, post visit and subsequent to grant of accreditation.

Head of the Institute

Name: Dr J Govardhan

Designation: Principal

Signature:



Seal of The Institution:



Place: Ghatkesar

Date: 13-02-2023