SELF ASSESSMENT REPORT (SAR)

for

UNDERGRADUATE ENGINEERING PROGRAM (TIER-I)

(FIRST TIME ACCREDITATION)

Submitted to

National Board of Accreditation

4th Floor, East Tower, NBCC Place,
Bhisham Pitamah Marg Pragati Vihar, New Delhi-110003

by

Application No. 9862-16/12/2024

Department of Electrical and Electronics Engineering
Kallam Haranadhareddy Institute of Technology

(Approved by AICTE, New Delhi & Permanently Affiliated to JNTUK, Kakinada)
Accredited by NAAC with "A" Grade
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March, 2025

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PARTA: Institutional Information

1. **Name and Address of the Institution:**

   Kallam Haranadhareddy Institute of Technology
   NH-16, Chowdavaram, Guntur,
   Andhra Pradesh - 522019

2. **Name and Address of the Affiliating University:**

   JNTU Kakinada, Kakinada, Andhra Pradesh - 533003

3. **Year of establishment of the Institution:** 2010

4. **Type of the Institution:**

Institute of National Importance	
University	
Deemed University	
Autonomous	√
Any other(Please specify)	

5. **Ownership Status:**

Central Government	
State Government	
Government Aided	
Self-Financing	√
Trust	
Society	√
Section 25 Company	
Any Other(Please specify)	

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

Name of the Institution(s)	Year of Establishment	Programs of Study	Location
NIL			

7. Detailsofalltheprogramsbeingofferedbytheinstitutionunder consideration:

S. No.	Program Name	Name of the Department	Year of Start	Intake	Increase/Decrease in intake, if any	Year of Increase/Decrease		AICTE Approval	Accreditation Status*
1	B.Tech Civil Engineering	Civil Engineering	2010	60	Yes	--	--	SCRO/2010/1-8213321 Dated: 14/07/2010	(1) NA-
						120 (60 seats increased)	2014	South-Central/1-2013803869/2014/EOA Dated: 04/06/2014	(2) Eligible but not applied
						60 (60 seats decreased)	2022	South-Central/1-1096850652/2022/EOA Dated: 03/07/2022	(3) Accredited for 3 Years from 01-07-2023 to 30-06-2026
						30 (30 seats decreased)	2023	South-Central/1-36455497013/2023/ EOA Dated: 14/06/2023	
2	M. Tech. (Structural Engineering)	Civil Engineering	2014	24	Yes	-	-	South-Central/1-2013803869/2014/EOA Dated: 04/06/2014	(4) Eligible but not applied
						6 (18 seats decreased)	2022	South-Central/1-1096850652/2022/EOA Dated: 03/07/2022	
3	B.Tech Electrical and Electronics	Electrical and Electronics Engineering	2010	60	No	-	-	SCRO/2010/1-8213321 Dated: 14/07/2010	(5) Accredited for 3 Years from

	Engineering								01-07-2018 to 30-06-2021 Accredited for 3 Years from 01-07-2022 to 30-06-2025
4	B.Tech. Mechanical Engineering	Mechanical Engineering	2010	60	Yes	-	-	SCRO/2010/1-8213321 Dated: 14/07/2010	Accredited for 3 Years from 01-07-2018 to 30-06-2021 Accredited for 3 Years from 01-07-2022 to 30-06-2025
						120 (60 seats increased)	2014	South-Central/1-2013803869/2014/ EOA Dated: 04/06/2014	
						60 (60 seats decreased)	2021	South-Central/1-9320212991/2021/ EOA Dated: 02/07/2021	
						30 (30 seats decreased)	2023	South-Central/1-36455497013/2023/ EOA Dated: 14/06/2023	
5	M. Tech. (Thermal Engineering)	Mechanical Engineering	2014	24	Yes	-	-	South-Central/1-2013803869/2014/ EOA Dated: 04/06/2014	Eligible but not applied
						6 (18 seats decreased)	2022	South-Central/1-1096850652/2022/ EOA Dated: 03/07/2022	
6	B.Tech (Electronics &Communication Engineering	Electronics &Communication Engineering	2010	60	Yes	-	-	F.No._SCRO/2010/1-8213321 Dated: 14-07-2010	-NA-
						Increased by 60	2011	South-Central/1-404394595/2011/EOA Dated:	(6) Accredited for 3

	ng)							07/09/2011	Years from 01-07-2018 to 30-06-2021 (7) Accredited for 3 Years from 01-07-2022 to 30-06-2025
						Increased by 60	2012	South-Central/1-744312032/2012/EOA Dated: 10/05/2012	
7	M.Tech (VLSI & Embedded Systems)	Electronics & Communication Engineering	2019	18	Yes	-	-	F.No. South-Central/1-4261154678/2019/EOA Dated: 30-04-2019	-NA-
						6 (12 seats decreased)	2022	South-Central/1-1096850652/2022/EOA Dated: 03/07/2022	Eligible, but not applied
8	B.Tech – Computer Science and Engineering	Computer Science and Engineering	2020	60	Yes	-	-	F.No._SCRO/2010/1-8213321 Dated: 14-07-2010	-NA-
						120 (increased by 60)	2013	South-Central/1-744312032/2012//EOA Dated: 10/05/2012	(8) Accredited for 3 Years from 01-07-2018 to 30-06-2021 Accredited for 3 Years from 01-07-2022 to 30-06-2025
						180 (increased by 60)	2019	South-Central/1-4261154678/2019/EOA Dated: 30/04/2019	
						240 (increased by 60)	2023	South-Central/1-36455497013/2023/EOA Dated: 14/06/2023	
						360 (increased by 120)	2024-25	South-Central/1-43659964882/2024/EOA Dated: 22/05/2024	

9	M.Tech - Computer Science & Engineering	Computer Science & Engineering	2012	18	Yes	-	-	South-Central/1-10969850652/2022/EOA Dated: 03/07/2022	-NA-
						06 (Decreased by12)	2022-23	South-Central/1-10969850652/2022/EOA Dated: 03/07/2022	Eligible, but not applied
10	B.Tech – Information Technology	Information Technology	2019	60	Yes	--	--	South-Central/1-4261154678/2019/EOA	NA-
						180 **(Increased 120)**	2024	South-Central/1-43659964882/2024/EOA/ Corrigendum-1	Applying First time
11	B.Tech – CSE (Artificial Intelligence and Machine Learning)	Computer Science and Engineering (Artificial Intelligence and Machine Learning)	2020	60	Yes	-	2020	South-Central/1-7009391175/2020/EOA	Not eligible for accreditation
						120 (60 Increased)	2021	South-Central/1-9320212991/2021/EOA	Not eligible for accreditation
						180 (60 Increased)	2022	South-Central/1-0969850652/2022/EOA	Not eligible for accreditation
12	B.Tech – CSE (Artificial Intelligence and Data Science)	CSE (Artificial Intelligence and Data Science)	2021	60	Yes	-	2021	South-Central/1-9320212991/2021/EOA	Not eligible for accreditation
						120 (60 Increased)	2023	South-Central/1-36455497013/2023/EOA	Not eligible for accreditation
						180 (60 Increased)	2024	South-Central/1-43659964882/2024/EOA/ Corrigendum-1	Not eligible for accreditation
13	MCA	BCA	2024	180	No	_	-	South-Central/1-43659964882/2024/EOA/	Not eligible for

								Corrigendum-1	accreditation
14	Diploma - Electrical and Electronics Engineering	Electrical and Electronics Engineering	2014	60	No	-	-	South-Central/1-2013803869/2014/EOA Dated: 04/06/2014	Eligible, but not applied
15	Diploma – Mechanical Engineering	Mechanical Engineering	2014	60	No	-	-	South-Central/1-2013803869/2014/EOA Dated: 04/06/2014	Not eligible for accreditation
16	Diploma – Civil Engineering	Civil Engineering	2020	60	No	-	2020	South-Central/1-7009391175/2020/EOA	Not eligible for accreditation
17	Diploma – Electronics and Communication Engineering	Electronics and Communication Engineering	2020	60	No	-	2020	South-Central/1-7009391175/2020/EOA	Eligible for accreditation
18	Diploma – Computer Engineering	Computer Science and Engineering	2021	60	Yes	-	-	South-Central/1-932022991/2021/EOA	Not eligible for accreditation
						120 (60 Increased)	2022	South-Central/1-0969850652/2022/EOA	
19	Management	MBA	2019	60	Yes	-	-	. South-Central/1-4261154678/2019/EOA	NA
						120 (60 Increased)	2020	South-Central/1-7009391175/2020/EOA	Eligible for accreditation
20	Computer Applications	MCA	2023	180	No	-	-	South-Central/1-36455497013/2023/EOA	Not eligible for accreditation

8. Programs to be considered for Accreditation vide this application

S.No.	Program Name

1	B.Tech. Electrical and Electronics Engineering
2	B.Tech.. Mechanical Engineering
3	B.Tech. Electronics & Communication Engineering
4	B.Tech. Computer Science and Engineering
5	B.Tech. Information Technology

9. Total number of employees:

A. Regular Employees(Faculty and Staff):

Items		CAY - 2024-25		CAYm1 - 2023 24		CAYm2 - 2022-23	
Faculty in Engineering	**M**	124	129	108	124	101	120
Faculty in Engineering	**F**	42	46	39	52	31	45
Faculty in Math's, Science & Humanities teaching in Engineering Programs	**M**	38	41	33	38	31	34
	F	25	28	24	26	18	19
Non-Teaching staff	**M**	31	31	25	25	21	21
	F	23	23	12	12	11	11

10. Total number of Engineering Students:

Item	CAY - 2024-25	CAYm1 - 2023 24	CAYm2 - 2022-23
Total no. of boys	2648	2379	2104
Total no. of girls	1265	1213	1071
Total no. of	3913	3592	3175

students			

11. Vision of the Institution:

To be a quality - oriented technical institution known forglobal academic excellence and professional human values

12. Mission of the Institution:

- To provide quality instruction with competent and knowledgeable faculty and state of the art laboratories to meet global standards.
- To achieve academic distinction through socially and industry relevant curriculum, novel teaching and learning practices and evaluation based on desired outcomes.
- To prepare the graduates to accomplish professional practice, employability, entrepreneurial development and higher education.
- To inculcate self-discipline, accountability and values in the learners for effective and informed citizenship.
- To focus on effective industry-institution interaction with premier institutes and renowned industries to become a R&D center.

13. Contact Information of the Head of the Institution

(i) Name: Dr B.S.B Reddy
Designation: Principal
Mobile No:9494539972
Email id: bsbreddy@gmail.com

NBA coordinator, if designated:

(ii) Name: Dr. M. Satish Kumar
Designation: Professor & HoD- CE
MobileNo: 9885968636
Email id: satish.envi@gmail.com

PART-B CRITERIA SUMMARY

Name of the Program: B.Tech. in Electrical and Electronics Engineering

Criteria No.	Criteria	Marks/Weightage
Program Level criteria		
1	Vision, Mission and Program Educational Objectives	50
2	Program Curriculum and Teaching - Learning Processes	100
3	Course Outcomes and Program Outcomes	175
4	Students' Performance	100
5	Faculty Information and Contributions	200
6	Facilities and Technical Support	80
7	Continuous Improvement	75
Institution Level Criteria		
8	First Year Academics	50
9	Student Support Systems	50
10	Governance, Institutional Support and Financial Resources	120
	Total	**1000**

CRITERION 1	Vision, Mission and Program Educational Objectives	50

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

Vision of the Institution	To be a quality-oriented technical institution known for global academic excellence and professional human values.
	To provide quality instruction with competent and knowledgeable faculty and state-of-the-art laboratories to meet global standards. To achieve academic distinction through socially and industry-relevant curriculum, novel teaching and learning practices and evaluation based on desired outcomes. To prepare the graduates to accomplish professional practice, employability, entrepreneurial development and higher education. To inculcate self-discipline, accountability and values in the learners for effective and informed citizenship. To focus on effective industry-institution interaction with premier institutes and renowned industries to become a research and development center.
Vision of the Department	To impart quality technical education to the students inculcating the professional skills and knowledge in the field of Electrical and Electronics Engineering with ethical values to serve the needs of society.
Mission of the Department	M1: To provide quality education through qualified faculty and state-of-the-art laboratories ensuring excellence in Electrical and Electronics Engineering. M2: To equip students with technical expertise and entrepreneurial skills through a structured cur riculum and fostering lifelong learning. M3: To inspire students to succeed in professional practice and to pursue higher education in Electrical and Electronics Engineering. M4: To encourage self-discipline and accountability in students, shaping them into responsible citizens to meet the desirable needs of society. M5: To cultivate a culture of research, innovation and entrepreneurship in the core and allied fields of Electrical and Electronics Engineering.

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

The Program Educational Objectives of the B.Tech., Electrical and Electronics Engineering Program are given below and are numbered from PEO1 to PEO3:

Graduates are able to

PEO 1	Exhibit a strong foundation in Electrical and Electronics Engineering with advanced knowledge in current technologies to address the real-world problems.
PEO 2	Apply knowledge of Electrical and Electronics Engineering to contribute design, development and testing of systems that address societal and industrial needs.
PEO 3	Communicate effectively, demonstrate professionalism, collaboration, ethical attitude, team spirit and pursue lifelong learning to achieve career, organizational and societal goals.

1.3. Indicate where the Vision, Mission and PEOs are published and disseminated among stakeholders (15)

Publication of Vision, Mission and PEOs

- **Institutional Website:**
  - Displayed on the homepage of the department under dedicated section "About Us".
  - Easily accessible to all stakeholders, including students, faculty, staff, parents and the public.
- **Academic Documents and Manuals:**
  - Included in the student handbook, faculty handbook and course catalog.
  - Mentioned in the department's strategic plan and policy documents.
- **Display Boards and Visuals:**
  - Prominently displayed on notice boards and posters in common instructional/administrative areas like the library and department's office.
- **Annual Reports:**
  - Published in the institution's annual report to showcase alignment with institutional goals.
- **Official Publications:**
  - Printed in prospectus, brochures, newsletters and admission materials distributed to prospective students and other stakeholders.

Dissemination among Stakeholders

- **Orientation Programs:**
  - Introduced to new students, faculty and staff during orientation sessions.
- **Workshops and Seminars:**
  - Communicated during departmental and institutional events to ensure alignment with academic and professional goals.
- **Parent-Teacher Meetings and Alumni Interactions:**

  - Shared during interactions with parents and alumni to reinforce institutional identity and goals.
- **Internal Communication:**
  - Shared through internal emails, portals and newsletters for continuous reinforcement among faculty and staff.
- **Community and Industry Engagement:**
  - Presented to external stakeholders, such as industry partners, during collaborations, Memoranda of Understanding (MoUs) and outreach programs.
- **Social Media and Digital Platforms:**
  - Disseminated through official social media handles, ensuring a broader reach to global stakeholders.

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

The process for defining the Vision, Mission and Program Educational Objectives (PEOs) involves collaboration among stakeholders, aligning with institutional Vision, Mission. Below is a structured approach for establishing Vision and Mission of the department and PEOs of the program:

1.4.1. Establishing the Vision and Mission of the Department

The Vision and Mission statements reflect the department's aspirations and contributions to its stakeholders, institution and society.

- **Formation of a Committee:**
  - Constitute a committee comprising faculty members, industry representatives, alumni, students and other stakeholders.
  - Ensure diverse perspectives for holistic decision-making.
- **Alignment with Institutional Vision and Mission:**
  - Review the institution's Vision and Mission to ensure the department's goals align with the broader institutional objectives.
- **Assessment of Current Trends and Needs:**
  - Analyze global and regional trends in the field, technological advancements and societal needs.
  - Consider inputs from industry experts and academic leaders.
- **Stakeholder Feedback:**
  - Collect feedback from key stakeholders (students, alumni, employers and faculty) regarding their expectations and requirements.
  - Conduct surveys, focus groups or interviews to collect qualitative and quantitative data.
- **Drafting and Review:**
  - Draft the Vision and Mission statements emphasizing clarity, brevity and future-oriented goals.

  - Review the drafts in consultation with the committee for refinement and approval.
- **Approval and Validation:**
  - Obtain formal approval from the Department Advisory Board and the institution's governing body.
  - Validate that the statements are aspirational yet achievable.

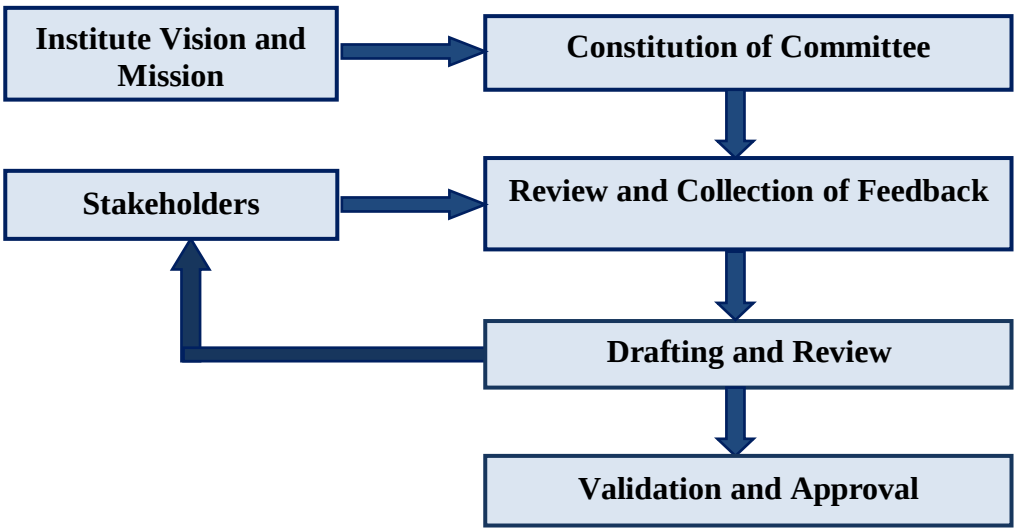


Fig.1.4a: Process of defining the Vision and Mission of the department

1.4.2. Defining the Program Educational Objectives (PEOs)

Program Educational Objectives (PEOs) are broader statements that describe the career and professional accomplishment that the program is preparing graduates to achieve. The Program Educational Objectives are established through a consultation process involving the stakeholders such as: Students, Alumni, Industry and Faculty etc. as shown in Fig.1.4b. Below is a structured approach:

- **Identify Graduate Outcomes:**
  - Define broad outcomes graduates should achieve 3-5 years after completing the program, including career growth, lifelong learning and contributions to society.
- **Engagement with Stakeholders:** Collect input from
  - **Students:** To understand their aspirations.
  - **Alumni:** To learn about career trajectories and experiences.
  - **Employers/Industry Experts:** To align PEOs with market and professional expectations.
  - **Faculty:** To ensure academic rigor and relevance.
  - Organize stakeholder meetings, workshops and brainstorming sessions.
- **Benchmarking:**
  - Study PEOs from similar programs in leading institutions to ensure competitiveness and relevance.
- **Drafting and Mapping:** Prepare PEOs, ensuring they are

- Specific
- Measurable
- Achievable
- Relevant
- Time-bound
- Map the PEOs to the Vision and Mission of the department.

- **Approval Process:**
  - Present the drafted PEOs to the program advisory board for review and validation.
  - Incorporate suggestions and finalize.
- **Periodic Review:**
  - Establish a mechanism for periodic review and revision of the Vision, Mission, and PEOs to keep them updated with industry trends, academic advancements and stakeholder needs.

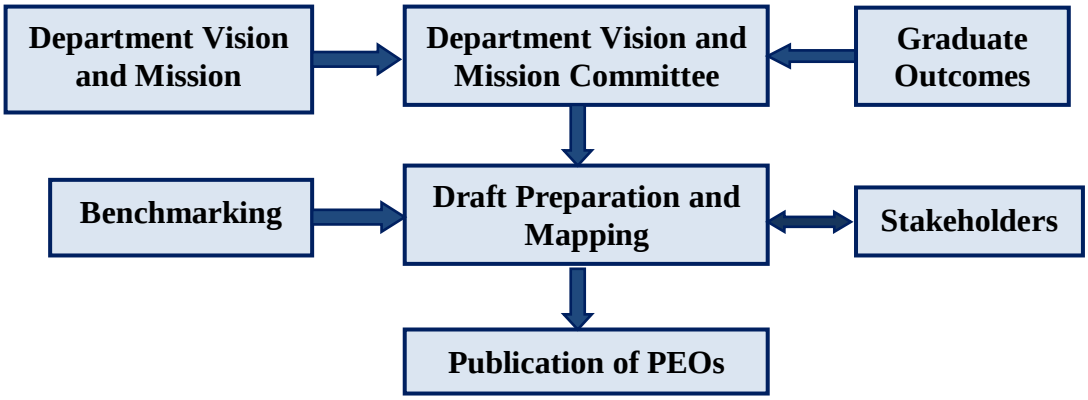


Fig.1.4b: Process of defining the Program Educational Objectives

1.5. Establish consistency of PEOs with Mission of the Department (10)

MISSION OF THE DEPARTMENT

M1: To provide quality education through qualified faculty and state-of-the-art laboratories ensuring excellence in Electrical and Electronics Engineering.

M2: To equip students with technical expertise and entrepreneurial skills through a structured curriculum and fostering lifelong learning.

M3: To inspire students to succeed in professional practice and to pursue higher education in Electrical and Electronics Engineering

M4: To encourage self-discipline and accountability in students, shaping them into responsible citizens to meet the desirable needs of society.

M5: To cultivate a culture of research, innovation and entrepreneurship in the core and allied fields of Electrical and Electronics Engineering.

Table B.1.5: Mission of the department - PEOs matrix with justification

PEO	M1	M2	M3	M4	M5	Justification
PEO1	**3**	**2**	**3**	**2**	**2**	**PEO1** is highly mapped with Mission statements 1 and 3. PEO1 is achievable through both Mission1 and 3 as M1 and M3 aims at laying a strong technical foundation through a well-designed curriculum, laboratory practices and quality teaching-learning environment.
PEO2	**3**	**3**	**2**	**2**	**2**	**PEO2** is highly mapped to Mission statements 1 and 2. PEO2 is consistent with Mission1 and 2 as M1 and M2 promotes leadership and entrepreneurship.
PEO3	**3**	**2**	**2**	**3**	**2**	**PEO3** is highly mapped to Mission statements 1 and 4. PEO3 is achievable through both Mission1 and 4 as M1 and M4 supports innovation, higher education, personal growth and self-discipline while strengthening communication skills and team spirit.

CRITERION 2	Program Curriculum and Teaching - Learning Processes	100

2.1 Program Curriculum (30)

2.1.1. State the process for designing the program curriculum (10)

Curriculum is a key driver of the entire instructional system encompassing, teaching, learning, and assessment sub-systems. Designing a program curriculum involves a structured approach to ensure alignment with institutional goals, regulatory requirements, industry trends, and the expectations of various stakeholders. The curricula of programs are affected by the local needs and expectations of different stakeholders. Therefore, continuous efforts are needed to update in order to address the society's needs at large.

Department of Electrical and Electronics Engineering has its own Board of Studies (BoS), which is a statutory body as stipulated by UGC.
The main functions of the BoS are:

- Prepare syllabi for various courses keeping in view the objectives of the college, interest of the stakeholders and national requirement for consideration and approval of the Academic Council;
- Suggest methodologies for innovative teaching and evaluation techniques;
- Suggest panel of names to the Academic Council for appointment of examiners; and
- Coordinate research, teaching, extension and other academic activities in the department/college.

Composition of Board of Studies:

- Head of the Department concerned (Chairman).
- The entire faculty of each specialization.
- Two subject experts from outside the Parent University to be nominated by the Academic Council.
- One expert to be nominated by the Vice-Chancellor from a panel of six recommended by the college principal.
- One representative from industry/corporate sector/allied area relating to placement.
- One postgraduate meritorious alumnus to be nominated by the principal.

The Chairman, Board of Studies, may with the approval of the principal of the college, co-opt:

- Experts from outside the college whenever special courses of studies are to be formulated.
- Other members of staff of the same faculty.

The BoS would deliberate on the draft syllabus prepared by DCDC (Department Curriculum Development Committee) and approved by CDC (Curriculum Development Committee). After elaborate discussions on the content and organization of the syllabus in the respective Boards of Studies, it will be placed before the Academic Council for deliberations and approval. Suggestions from the members of the Academic Council would be duly incorporated and finally given approval in the BoG meeting.

Below is a comprehensive process for designing program curriculum:

Formation of a Departmental Board of Studies (BoS)	**Constitute a BoS comprising:** • Senior faculty members. • University representative • Industry experts. • Alumni representatives.
Need Assessment and Analysis by PAQIC	Needs assessment is the basic element of curriculum design, development, and revision. The needs assessment shall be carried out to identify the key competencies, desirable characteristics, desirable learning experiences in the curriculum development process. Need Analysis includes but is not limited to the following: a) Policy Revision at national level b) Statutory and Regulatory Bodies c) Stakeholders Feedback
Define PEOs, PSOs and adopt POs	**Program Educational Objectives (PEOs)**: • Outline long-term objectives for graduates, such as career advancement, lifelong learning, and societal impact. **Program Outcomes (POs)**: • Define competencies students must acquire by graduation, aligned with national or international standards (e.g., ABET, NBA). **Program Specific Outcomes (PSOs)**: • Define specific outcomes for each program to in line with POs and PEOs.
Alignment with Regulatory and Accreditation Standards	• Review guidelines from national and international accrediting bodies (e.g., UGC, NBA, ABET). • Review model curriculum from AICTE, APSCHE and JNTUK • Incorporate benchmarks from National Education Policies (NEP) or equivalent

	frameworks. • Ensure compliance with institutional policies and requirements.
Curriculum Structure and Framework Development	**Credit Distribution**: • Determine total credits required for program completion. • Allocate credits among core courses, electives, practical courses, projects, internships, and co-curricular activities. **Program Core and Electives**: • Identify core courses essential for foundational and advanced knowledge. • Design elective courses to provide flexibility and cater to students' interests or specialization areas. **Interdisciplinary Integration**: • Include courses that promote interdisciplinary learning and skills. **Skill Development**: • Emphasize communication, teamwork, analytical thinking, and technical skills through dedicated courses or modules.
Drafting and Reviewing the Curriculum	**Course Mapping**: • Map courses to POs and PSOs to ensure alignment with program goals. • Check the progression of knowledge and skills across semesters. **Feedback Loop**: • Share the draft curriculum with internal and external stakeholders for review. • Incorporate constructive feedback and finalize the draft.
Approval and Implementation	Present the curriculum to academic bodies such as: ▪ PAQIC. ▪ Board of Studies (BoS). ▪ Academic Council. ▪ Obtain formal approval after review.

Continuous Review and Improvement	• Establish a feedback mechanism for regular review of the curriculum. • Incorporate feedback from stakeholders, placement records, and emerging academic or industry trends. • Revise the curriculum periodically (e.g., every 3–5 years) to maintain relevance and effectiveness.

2.1.2. Structure of the Curriculum (5)

Table B.2.1.2: Structure of the Curriculum

Course Code	Course Titles	Total Number of contact hours				Credits		
		Lecture (L)	Tutorial (T)	Practical (P)	Total Hours	Theory	Practical	Total
C101	Calculus & Ordinary Differential Equations	48	0	0	48	3	0	3
C102	Applied Physics	48	0	0	48	3	0	3
C103	Programming for Problem Solving Using C	48	0	0	48	3	0	3
C104	Engineering Drawing	16	0	64	80	1	2	3
C105	English	48	0	0	48	3	0	3
C106	Soft Skills Course-I	48	0	0	48	0	0	0
C107	Constitution of India	48	0	0	48	0	0	0
C108	Applied Physics Lab	0	0	48	48	0	1.5	1.5
C109	Programming for Problem Solving Using C Lab	0	0	48	48	0	1.5	1.5
C110	English Lab	0	0	48	48	0	1.5	1.5
C111	Linear Algebra &Numerical Methods	48	0	0	48	3	0	3
C112	Applied Chemistry	48	0	0	48	3	0	3
C113	Electrical Circuit Analysis-I	48	0	0	48	3	0	3
C114	Basic Electronic Devices & Circuits	48	0	0	48	3	0	3
C115	Python Programming	48	0	0	48	3	0	3
C116	Soft Skills Course-II	48	0	0	48	0	0	0
C117	Environmental Science	48	0	0	48	0	0	0
C118	Applied Chemistry Lab	0	0	48	48	0	1.5	1.5

C119	Python Programming Lab	0	0	48	48	0	1.5	1.5
C120	Electrical Engineering Workshop	0	0	48	48	0	1.5	1.5
C201	Digital Electronics	48	0	0	48	3	0	3
C202	Electrical Circuit Analysis - II	48	0	0	48	3	0	3
C203	DC Machines and Transformers	48	0	0	48	3	0	3
C204	Electro Magnetic Fields	48	0	0	48	3	0	3
C205	Power Systems - I	48	0	0	48	3	0	3
C206	Electronics Engineering Lab	0	0	48	48	0	1.5	1.5
C207	Electrical Circuits Lab	0	0	48	48	0	1.5	1.5
C208	DC Machines and Transformers Lab	0	0	48	48	0	1.5	1.5
C209	Skill Oriented Course-I (Programming for Problem Solving Using C)	0	0	0	0	0	2	2
C210	Vector Calculus, Transforms and PDE	48	0	0	48	3	0	3
C211	Managerial Economics and Financial Analysis	48	0	0	48	3	0	3
C212	Essence of Indian Traditional Knowledge	48	0	0	48	0	0	0
C213	Electrical Measurements and Instrumentation	48	0	0	48	3	0	3
C214	Induction and Synchronous Machines	48	0	0	48	3	0	3
C215	Control Systems	48	0	0	48	3	0	3
C216	Induction and Synchronous Machines Lab	0	0	48	48	0	1.5	1.5
C217	Electrical Measurements & Instrumentation Lab	0	0	48	48	0	1.5	1.5
C218	Control Systems Lab	0	0	48	48	0	1.5	1.5
C219	Skill Oriented Course-II (Python Programming)	0	0	0	0	0	2	2
C301	Professional Ethics and Universal Human Values	48	0	0	48	0	0	0
C302	Power Electronics	48	0	0	48	3	0	3
C303	Power Systems - II	48	0	0	48	3	0	3

C304	Power System Analysis	48	0	0	48	3	0	3
C305	Utilization of Electrical Energy	48	0	0	48	3	0	3
C306	OPEN ELECTIVE I – Waste water treatment and recycling - MOOCS (SWAYAM – NPTEL) Offered By CE	0	0	0	0	3	0	3
C307	Power Electronics Lab	0	0	48	48	0	1.5	1.5
C308	Electrical Simulation Lab	0	0	48	48	0	1.5	1.5
C309	Community Service Project	0	0	180	180	0	4	4
C310	Summer Internship – I	0	0	0	0	0	1.5	1.5
C311	Skill Oriented Course-III (Employability Skills)	48	0	0	48	2	0	2
C312	Linear Integrated Circuits and Applications	48	0	0	48	3	0	3
C313	Micro Processors and Micro Controllers	48	0	0	48	3	0	3
C314	Renewable Energy Sources	48	0	0	48	3	0	3
C315	Switch Gear and Protection	48	0	0	48	3	0	3
C316	OPEN ELECTIVE II – Air Pollution and Control - MOOCS (SWAYAM – NPTEL) Offered By CE	0	0	0	0	3	0	3
C317	Linear Integrated Circuits and Applications Lab	0	0	48	48	0	1.5	1.5
C318	Micro Processors and Micro Controllers Lab	0	0	48	48	0	1.5	1.5
C319	Power Systems and Simulation Lab	0	0	48	48	0	1.5	1.5
C320	Skill Oriented Course-IV (IoT Fundamentals: Connecting Things)	0	0	0	0	0	2	2
C401	Electric Drives	48	0	0	48	3	0	3
C402	Flexible Alternating Current Transmission Systems	48	0	0	48	3	0	3
C403	Economic Operations and Control of Power Systems	48	0	0	48	3	0	3

C404	OPEN ELECTIVE – III Digital IC Applications- Offered By ECE	48	0	0	48	3	0	3
C405	OPEN ELECTIVE – IV Innovation and Entrepreneurship Offered By ME	48	0	0	48	3	0	3
C406	Management and Organizational Behavior	48	0	0	48	3	0	3
C407	Industrial/Research Internship-II	0	0	0	0	0	2	2
C408	Skill Oriented Course –V (IoT Fundamentals: Big Data Analytics)	0	0	0	0	0	3	3
C409	Project work, seminar and internship in industry	0	0	256	256	0	8	8
Total		**1936**	**0**	**1316**	**3252**	**108**	**52**	**160**

2.1.3. State the components of the curriculum (5)

Table B.2.1.3: Components of the course and contribution of credits

Course Component	Curriculum Content (% of total number of credits of the Program)	Total number of contact hours	Total number of credits
Basic Sciences	11.3	336	18
Engineering Sciences	15.0	480	24
Humanities and Social Sciences	6.6	192	10.5
Program Core	33.8	1104	54
Program Electives	9.4	240	15
Open Electives	7.5	96	12
Project(s)	7.5	436	12
Internships/Seminars	2.8	0	4.5
Skill oriented Courses	6.2	96	10
Mandatory Courses	0	272	0
Total number of Credits			**160**

2.1.4 State the process used to identify extent of compliance of the curriculum for attaining the Program Outcomes and Program Specific Outcomes as mentioned in Annexure I (10)

The process of identifying the extent of compliance of the curriculum for attaining the POs & PSOs is as follows:

a) **Extent of the compliance – Program level course – POs, PSOs Mapping**

Process used for identifying extent of compliance of curriculum for attaining POs and PSOs.

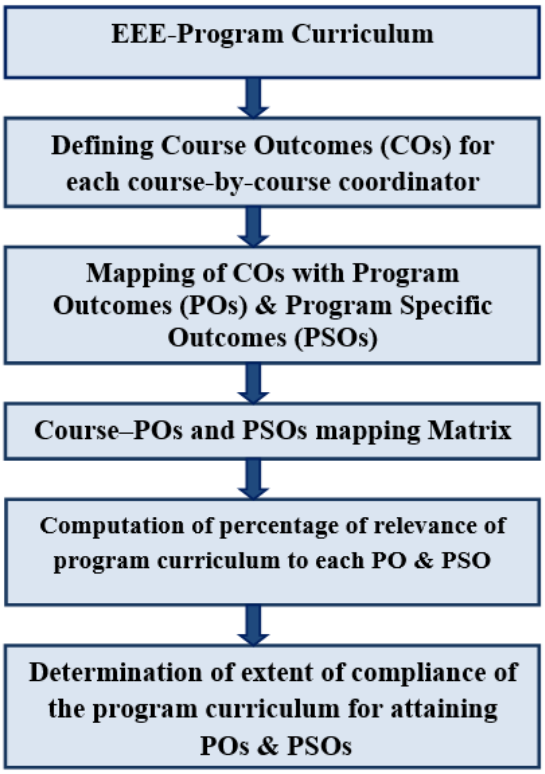


Fig. 2.1.4a: Process used for identifying extent of compliance of curriculum for attaining POs and PSOs - Mapping Matrix

Following the above process program level course- POs and PSOs mapping matrix is evolved and it is presented in the table 2.1.4a

Table B.2.1.4a: Program level Course - POs and PSOs Mapping Matrix

Course Code	Course Name	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C101	Calculus and ordinary differential equations	3	2													
C102	Applied Physics	3	2													
C103	Programming for Problem Solving Using C	3	2													
C104	Engineering Drawing	2	3													

C105	English						1				3					
C106	Soft Skills Course-I								2		3		1			
C107	Constitution of India						2		2	1			1			
C108	Applied Physics Lab	3	2		3				2	2.5	2					
C109	Programming for Problem Solving Using C Lab	3	2		3				2	3	2					
C110	English Lab					2			2	2.5	2.5					
C111	Linear algebra and Numerical methods	3	2													
C112	Applied Chemistry	3	2					1								
C113	Electrical Circuit Analysis - I	3	2											3		
C114	Basic Electronic Devices and Circuits	3	2.6													
C115	Python Programming	3	2													
C116	Soft Skills Course-II								2		3		1			
C117	Environmental Science	3					2	3	1							
C118	Applied Chemistry Lab	2	2		2				2	2.5	2					
C119	Python Programming Lab	3	2		3				2	3	2					
C120	Electrical Engineering Workshop	2			3				2	3	2					3
C201	Digital Electronics	3	2													
C202	Electrical Circuit Analysis - II	2	3											3		
C203	DC Machines and Transformers	2	3											3		
C204	Electro Magnetic Fields	2	3											3		
C205	Power Systems - I	2	3											3		
C206	Electronics Engineering Lab	2			3				2	3	2					3
C207	Electrical Circuits Lab	2			3				2	3	2					3
C208	DC Machines and Transformers Lab	2			3				2	3	2					3
C209	Skill Oriented Course-I(Programming for Problem Solving Using C)	2.5	2.5			3				3	2		2.5			3
C210	Vector Calculus, Transforms and PDE	3	2													

C211	Managerial Economics and Financial Analysis									2	2	3	2			3
C212	Essence of Indian Traditional Knowledge						1	2	2	2		2	2			
C213	Electrical Measurements and Instrumentation	2	3											3		
C214	Induction and Synchronous Machines	2	3											3		
C215	Control Systems	2	3											3		
C216	Induction and Synchronous Machines Lab	2			3				2	3	2					3
C217	Electrical Measurements & Instrumentation Lab	2			3				2	3	2					3
C218	Control Systems Lab	2			3				2	3	2					3
C219	Skill Oriented Course-II (PYTHON PROGRAMMING)	2.5	2.5			3				3	2		2.5			3
C301	Professional Ethics & Universal Human Values							2	3	2			1			
C302	Power Electronics	2	3											3		
C303	Power Systems-II	2	3											3		
C304	Power System Analysis	2	3											3		
C305	Professional Elective – I: Utilization of Electrical Energy	2	3												3	
C306	OPEN ELECTIVE I – Waste water treatment and recycling - MOOCS (SWAYAM – NPTEL) Offered By CE	3					2	3					2		3	
C307	Power Electronics Lab	2			3				2	3	2					3
C308	Electrical Simulation Lab	2			3				2	3	2					3
C309	Community Service Project	3				3	3	3			3	2				3
C310	Summer Internship-1	3	2			3	3	3	3	3	3		3	3		3
C311	Skill Oriented Course-III (EMPLOYABILITY SKILLS)	3					2		3		3		3			3
C312	Linear IC Applications	2	3													
C313	Microprocessors and Microcontrollers	2.4	3	2												
C314	Renewable Energy Systems	2	3											3		

C315	Professional Elective – II: Switchgear & Protection	2	3											3		
C316	OPEN ELECTIVE II – Air Pollution and Control - MOOCS (SWAYAM – NPTEL) Offered By CE	3					2	3				2		3		
C317	Linear IC Applications Laboratory	2			3				2	3	2					3
C318	Microprocessors & Microcontrollers Laboratory	2			3				2	3	2					3
C319	Power Systems& Simulation Laboratory	2			3				2	3	2					3
C320	Skill Oriented Course-IV (IOT Fundamentals - Connecting Things)	3		3		3				3	2		2.5			3
C401	Professional Elective – III: Electric Drives	2	3											3		
C402	Professional Elective – IV: FACTs	2	3											3		
C403	Professional Elective –V: Economic Operations and Control of Power Systems	2	3											3		
C404	OPEN ELECTIVE – III Digital IC Applications- Offered By ECE	2	2.6											3		
C405	OPEN ELECTIVE – IV Innovation and Entrepreneurship Offered By ME		3									3		3		
C406	Management & Organizational Behavior									3	2	1	2			
C407	Summer Internship-II	3	2			3	3	3	3	3	3		3	3		3
C408	Skill Oriented Course-V (IOT Fundamentals - Big Data & Analytics)	2		3		3				3	2		2.5			3
C409	Project Work, Seminar and Internship in Industry	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
Average		**2.40**	**2.58**	**2.67**	**2.94**	**2.89**	**2.18**	**2.60**	**2.15**	**2.75**	**2.27**	**2.33**	**2.12**	**3.00**	**3.00**	**3.00**
Percentage Relevance of The Curriculum		**79.88**	**86.14**	**88.89**	**98.04**	**96.30**	**72.73**	**86.67**	**71.60**	**91.67**	**75.81**	**77.78**	**70.59**	**100.00**	**100.00**	**100.00**

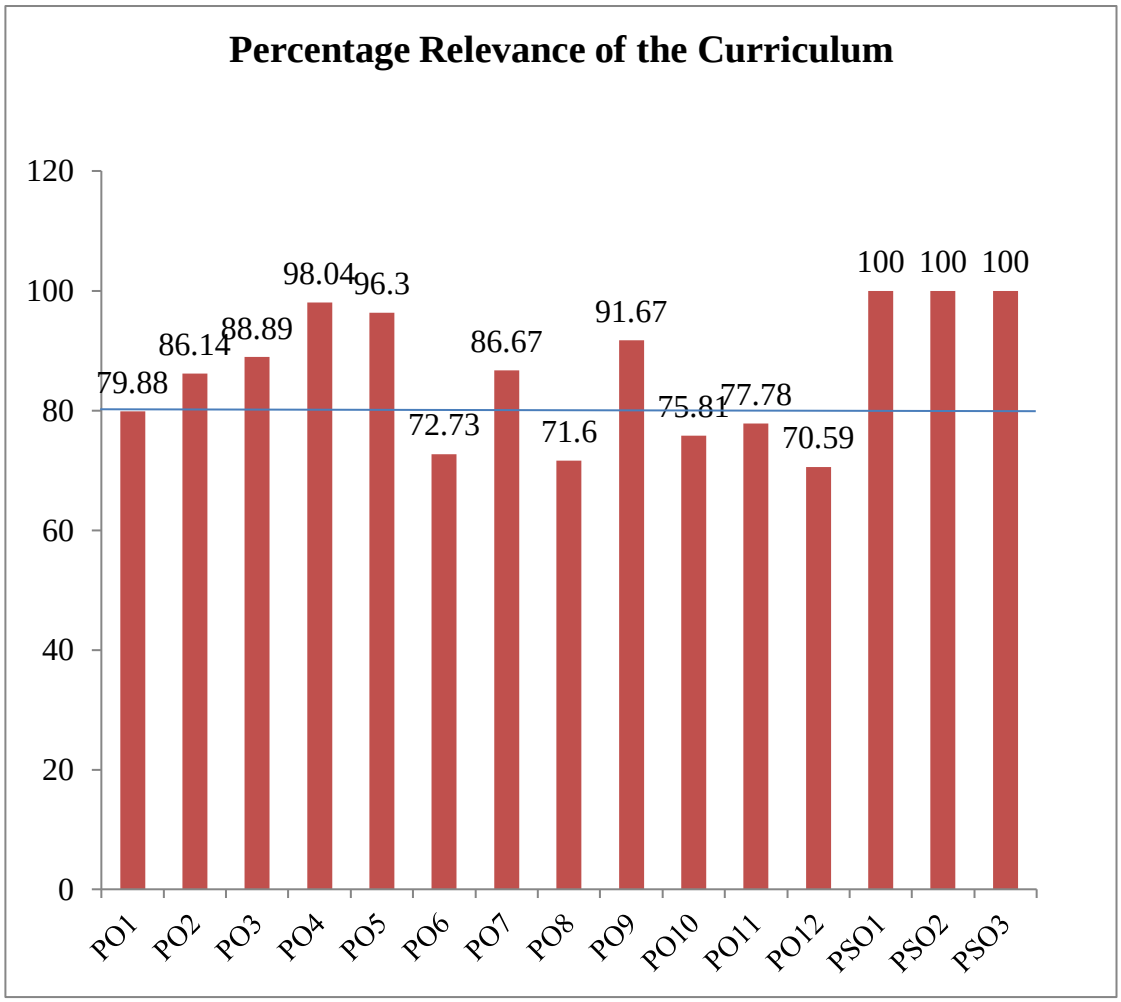


Fig. 2.1.4b: Relevance of the curriculum with POs and PSOs – Mapping Matrix

b) **Extent of compliance- stakeholders' feedback**

Stakeholders Feedback: For continuous curriculum improvement, feedback from all the stakeholders will be taken. The feedback collected is considered during the process of identification of curricular gaps.

i. **Faculty Feedback:** Faculty feedback will be taken once in a semester on curriculum.
ii. **Graduate student exit survey:** In order to improve and ensure the quality of Teaching Learning Process (TLP) and to find curriculum gaps, program exit survey is in place enabling to improve the curriculum on an on-going basis.
iii. **Course coordinator feedback**: Feedback is collected from course coordinators to identify the gaps in the syllabus and to identify the topics beyond the syllabus in a course offered by the course coordinator.
iv. **Alumni Feedback:** Feedback is collected from alumni by inviting them once in a year for the alumni meet. In order to bring awareness on industry requirement, the alumni are suggested to share their job experience with students of the program. PAQIC takes care of the alumni feedback by stringently following and materializing their suggestions wherever required.
v. **Parents Feedback:** Department organizes parents meet once in a semester to inform the parents about the academic progression of their wards and to know

about their aspirations.

vi. **Industry/Employer Feedback**: Once the student graduates and gets employed in an organization, Career Guidance, Training and Placement cell (CGTP) collects his/her employer feedback for revising PEO's and curriculum wherever deemed necessary. During campus placements the feedback will be collected from industry HR managers on performance of the students and also about the gaps in the curriculum being offered to them.

Feedback from all the internal and external stakeholders is reviewed and feedback summary is prepared by PAQIC.

The information from a) **Extent of the compliance – Program level course – POs, PSOs Mapping** Matrix and b) **Extent of compliance- stakeholders' feedback** is discussed and deliberated in PAQIC meetings.

Following is the process followed for the identification of the curriculum gaps.

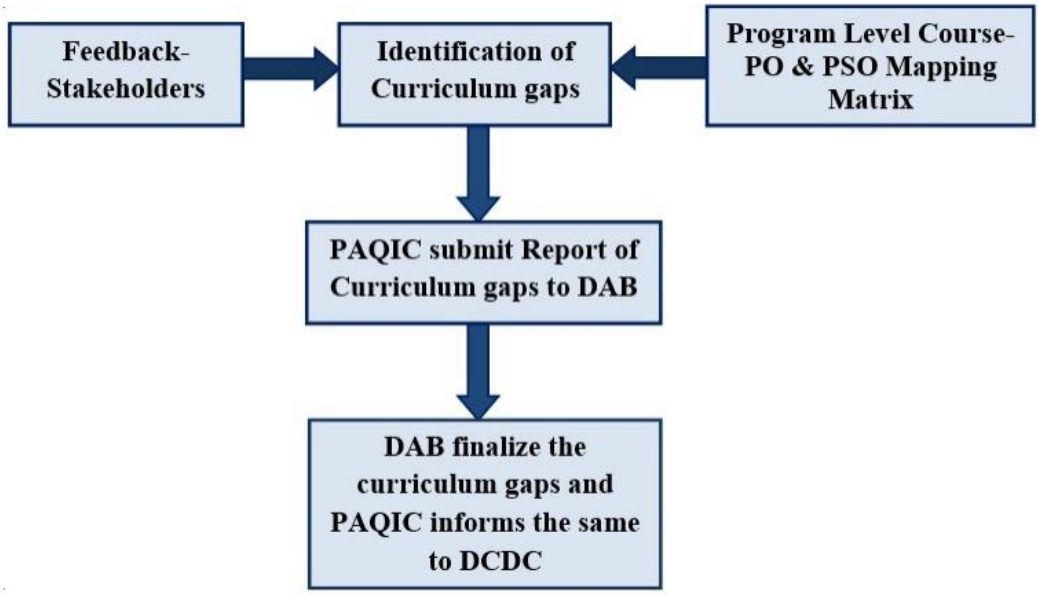


Fig. 2.1.4c: The process of identification of the curriculum gaps

Identification of gaps in Curriculum and suggestions as approved by DAB, submitted to DCDC:

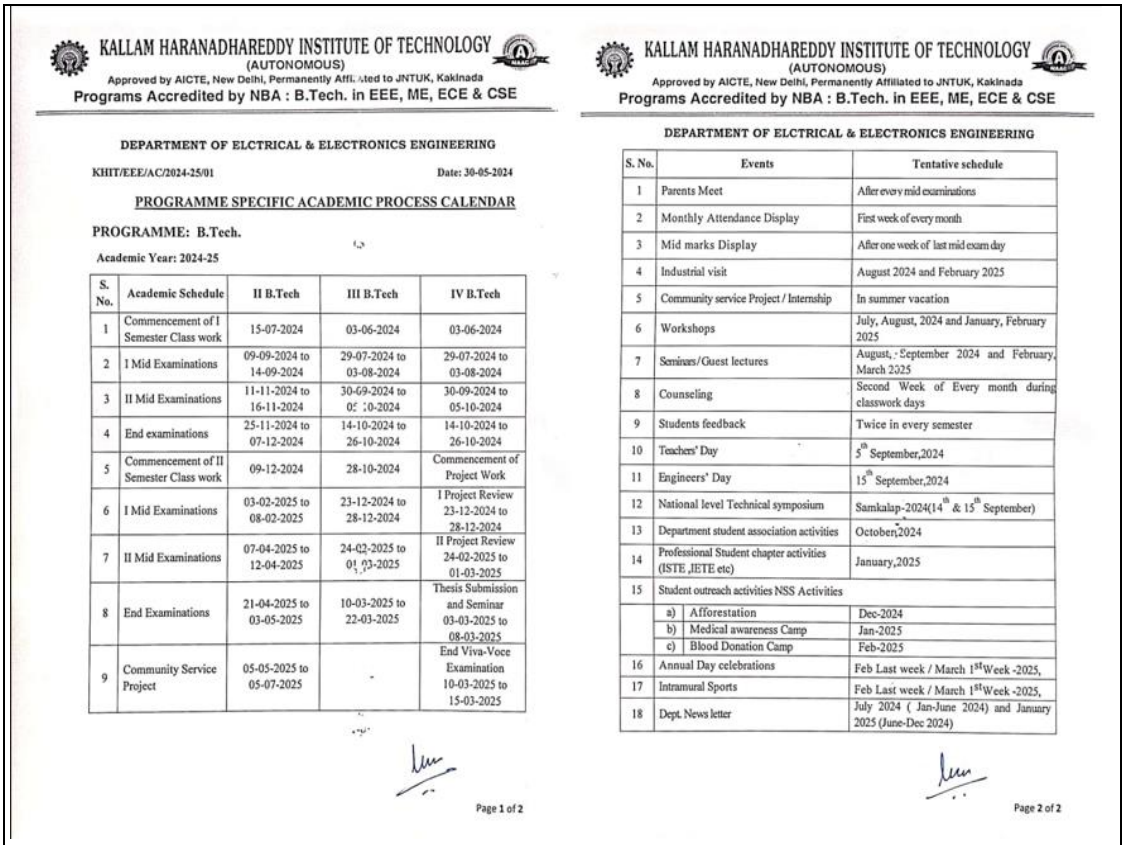
1. A Credit course on Universal Human Values – Understanding Harmony may be introduced in the Curriculum for making PO8 more relevant.
2. A Credit course on Health, Wellness, Yoga and NSS& NCC may be introduced for making PO6 more relevant in the Curriculum.
3. A Credit course on Design Thinking and Innovation may be introduced for fostering innovations and imbibing entrepreneurial competencies.
4. A Credit course on Tinkering/FAB Lab may be introduced for encouraging students do hobby projects.
5. A Credit course on Technical Paper Writing and IPR may be introduced for making Curriculum relevant to Intellectual property rights and protection.

6. Open Electives may be offered to encourage the students in a way that leads to the award of a Minor degree.

2.2 Teaching-Learning Processes (70)

2.2.1 Describe Processes followed to improve quality of Teaching & Learning (15)

Adherence to Academic Calendar	• **Planning**: Academic activities, including lectures, exams, and extracurricular events, are scheduled as per a well-defined academic calendar. • **Monitoring**: Regular monitoring of compliance with the academic calendar to ensure timely completion of syllabus and other activities. • **Mid-Semester Reviews**: Conducting periodic reviews to identify and address delays or issues in implementation.
At the starting of every academic year, program specific academic process calendar is prepared based on college academic calendar. Based on the College academic calendar, PAQIC collects the data from module coordinators to plan different departmental events such as Guest Lectures, Workshops, FDPs, Field/Industrial visits, Seminars/conferences, Summer Training programs, NSS activities, Student chapter activities etc. with an objective to plug the gaps in the curriculum. After the collection of data PAQIC conducts a meeting and schedules different events without affecting the college academic calendar and releases the Program Specific Academic Process Calendar. The entire academic duration scrupulously follows the program specific academic process calendar and if any deviations, should be approved by the PAQIC with prior notice. The finalized program specific academic process calendar is displayed in the department webpage.	



KALLAM HARANADHAREDDY INSTITUTE OF TECHNOLOGY
(AUTONOMOUS)
Approved by AICTE, New Delhi, Permanently Affiliated to JNTUK, Kakinada
Programs Accredited by NBA : B.Tech. in EEE, ME, ECE & CSE

DEPARTMENT OF ELCTRICAL & ELECTRONICS ENGINEERING

KHIT/EEE/AC/2024-25/01 Date: 30-05-2024

PROGRAMME SPECIFIC ACADEMIC PROCESS CALENDAR

PROGRAMME: B.Tech.

Academic Year: 2024-25

S. No.	Academic Schedule	II B.Tech	III B.Tech	IV B.Tech
1	Commencement of I Semester Class work	15-07-2024	03-06-2024	03-06-2024
2	I Mid Examinations	09-09-2024 to 14-09-2024	29-07-2024 to 03-08-2024	29-07-2024 to 03-08-2024
3	II Mid Examinations	11-11-2024 to 16-11-2024	30-09-2024 to 05-10-2024	30-09-2024 to 05-10-2024
4	End examinations	25-11-2024 to 07-12-2024	14-10-2024 to 26-10-2024	14-10-2024 to 26-10-2024
5	Commencement of II Semester Class work	09-12-2024	28-10-2024	Commencement of Project Work
6	I Mid Examinations	03-02-2025 to 08-02-2025	23-12-2024 to 28-12-2024	I Project Review 23-12-2024 to 28-12-2024
7	II Mid Examinations	07-04-2025 to 12-04-2025	24-02-2025 to 01-03-2025	II Project Review 24-02-2025 to 01-03-2025
8	End Examinations	21-04-2025 to 03-05-2025	10-03-2025 to 22-03-2025	Thesis Submission and Seminar 03-03-2025 to 08-03-2025
9	Community Service Project	05-05-2025 to 05-07-2025		End Viva-Voce Examination 10-03-2025 to 15-03-2025

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S. No.	Events	Tentative schedule
1	Parents Meet	After every mid examinations
2	Monthly Attendance Display	First week of every month
3	Mid marks Display	After one week of last mid exam day
4	Industrial visit	August 2024 and February 2025
5	Community service Project / Internship	In summer vacation
6	Workshops	July, August, 2024 and January, February 2025
7	Seminars/Guest lectures	August, September 2024 and February, March 2025
8	Counseling	Second Week of Every month during classwork days
9	Students feedback	Twice in every semester
10	Teachers' Day	5th September,2024
11	Engineers' Day	15th September,2024
12	National level Technical symposium	Samkalap-2024(14th & 15th September)
13	Department student association activities	October,2024
14	Professional Student chapter activities (ISTE ,IETE etc)	January,2025
15	Student outreach activities NSS Activities	
	a) Afforestation	Dec-2024
	b) Medical awareness Camp	Jan-2025
	c) Blood Donation Camp	Feb-2025
16	Annual Day celebrations	Feb Last week / March 1stWeek -2025,
17	Intramural Sports	Feb Last week / March 1stWeek -2025,
18	Dept. News letter	July 2024 (Jan-June 2024) and January 2025 (June-Dec 2024)

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Fig. 2.2.1a: Program Specific Academic Process Calendar

Impact Analysis

- Activities are pre-planned resulting in the improved participation.
- Academic process calendar is helpful to monitor the syllabus coverage.
  It lays a road map for organizing various activities like Industrial visits, workshops and seminars on advanced topics.

Pedagogical Initiatives for Enhanced Instruction	• **Technology Enhanced Learning**: Use of ICT tools such as learning management systems (e.g., Moodle), online simulations, and interactive quizzes to make learning engaging. • **Blended MOOCs Learning**: Combination of online and in-person teaching methods to cater to diverse learning needs. • **Collaborative Learning**: Group activities such as projects, problem-solving sessions, and peer discussions are implemented to foster teamwork and critical thinking. • **Experiential Learning**: Initiated through Skill oriented courses and Micro-credentials, Projects, field practice, Lab work and Internships

KHIT is implementing OBE. OBE is a student centric teaching-learning methodology in which the course delivery and assessment are planned to achieve the stated objectives and outcomes. To achieve the stated outcomes, the faculty members in the department follows different course delivery methods such as lecturing, tutorials, assignments, presentations, experimental laboratory work, project work, etc.

ICT Initiatives and Tools

Significant ICT initiatives are being implemented in KHIT. KHIT adopts many ICT integrated pedagogical methods to enable e the learner to meet their learning goals, academic success with required competencies. In addition to the chalk & board lecture method, methods such as Blended Learning, Collaborative learning, Self-learning, Experiential Learning are used to enhance learning opportunities to the students.

For the implementation of ICT Integrated pedagogical methods, ICT tools such as Google Classrooms (LMS) which provides an opportunity for better access, quality and equity in education. Google Classroom is a cloud-based web application where our faculty can upload to share all the particular class related documents, videos content and assignments etc. Google classroom also offers a wide variety of tools that make teaching and learning more effective. It provides an easy way to upload and share material; also we can hold online discussions and chats, give quizzes and surveys, gather and review assignments, and record grades.

- **Classroom Teaching with Audio – Visual Aids**

The lecture delivered by the faculty is through a set of educational technology/tools such as

1. Power point presentation (PPT)
2. E-Learning

The faculty use chalk and board and audio visual aids in teaching. Students are also encouraged to interact during the lecture hour by getting the doubts clarified in the same class. The college has sufficient number of computers, LCD projectors, application and system software which are used in the teaching process to improve its effectiveness.

The following innovative teaching methods are adopted by the faculty:

- Computing devices with Internet facility are used for teaching processes by the faculty to give Power Point presentations, Animations, Videos, Pictures etc., such that the students can easily understand the topic.
- Faculty members are advised to avail the higher learning resources such as NPTEL, Centre of Excellence for e-Resource and Development (CoEeRD) of JNTUK and other credible Internet sources for effective teaching.
- Smart Classrooms with LCD and Internet connection are used for teaching processes.
- The faculty members are implementing Outcome Based Education (OBE) to cater the learning needs of students through innovative methodologies. Orientation programs are conducted for the newly joined faculty to make them aware of the

OBE frame work.

- Each faculty prepares lecture notes and after completion of each unit of instruction, the material and softcopy will be shared with students.
- Internal question paper and Assignment Questions are prepared based on Bloom's taxonomy and Bloom's score will be calculated to identify the level of difficulty in the questions.

Blended learning – MOOCs by SWAYAM

SWAYAM is a program initiated by Govt. of India and designed to achieve the three cardinal principles of Education Policy viz., access, equity and quality. SWAYAM hosts online courses which are interactive and prepared by the best teachers in the country.

Massive Open Online Courses (MOOCs) is essentially an asynchronous platform and a process for teaching through pre-recorded lectures, resource video materials, lecture notes, assignments and quizzes, which are usually online and provide self-assessment in regular intervals during learning. These courses are open for anyone to access – at no cost.

The students and faculty who are interested in learning gets access to quality content, which also includes discussion with the content creator and access to assignments for self-testing. MOOCs through NPTEL-SWAYAM are self-paced in nature and promote self-learning which instills Lifelong learning skills amongst the learners.

In KHIT we are conducting MOOCs courses in the blended learning environment for encouraging students to earn and transfer credits through NPTEL courses and to imbibe life-long learning skills. Our students and faculty access all the courses available on Swayam platform through KHIT –SWAYAM NPTEL local chapter.

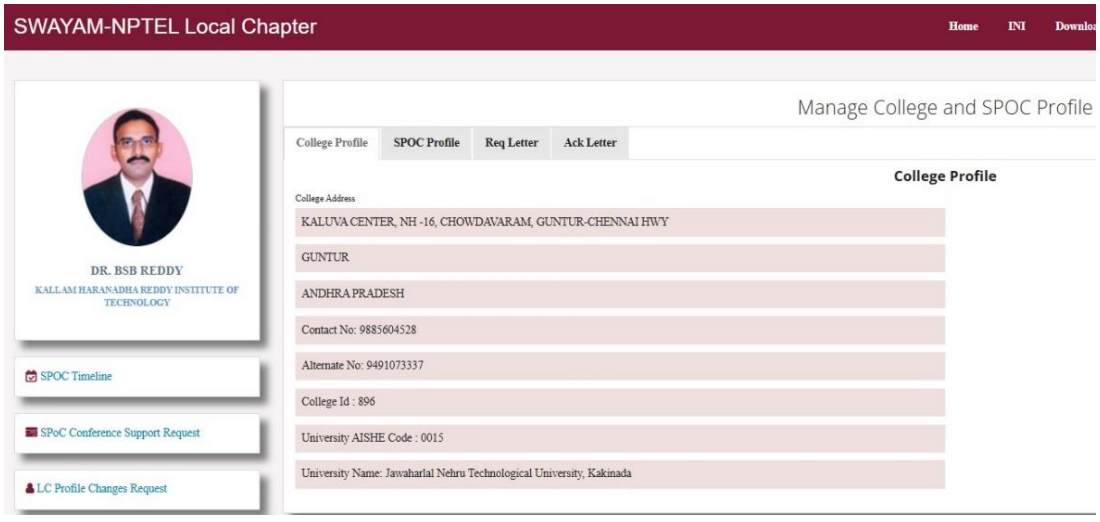


Fig.2.2.1b: KHIT'S SWAYAM NPTEL Local Chapter

The blended MOOCs is a form of flipped classroom using in-person class meetings (synchronous learning) to supplement a massive open online courses (Asynchronous learning). Students access blended MOOCs, blends synchronous and asynchronous learning- outside of class and then come to a class meeting for discussions or in-class

activities.

Table B.2.2.1a: Course registrations in SWAYAM- NPTEL

S. No	AY	No. of Students registered
1	2024-25	54
2	2023-24	51
3	2022-23	110

Impact:

The number of students registered with SWAYAM-NPTEL for MOOCs are increased. This is mainly due to blended MOOCs where teachers supplement asynchronous learning.

- By the introduction of Blended - MOOCs, our KHIT has enforced the student's participation in MOOCs courses.
- The participation of students in the MOOCs courses from AY 2023-24 to AY 2024-25 has been consistently maintained.

COLLABORATIVE LEARNING:

The institute is promoting collaborative learning by implementing peer to peer teaching ideology to enhance problem solving capability and team skills which promotes healthy internal relations among the students for their all-round career development.

a. Peer to Peer (P-P) Teaching:

Peer to peer teaching is an effective teaching technique that can be used in the classroom/ lab to enhance learning. This would enable the students to revise their learning and be able to consolidate to fellow students. It also improves their subject knowledge as well as it improves their confidence with the following benefits:

- Direct interaction between students promotes active learning.
- Peer teachers reinforce their own learning by instructing others.
- Students feel more comfortable and open when interacting with a peer.
- Peers and students share a similar discourse, allowing for greater understanding.
- Teachers get more time to focus on the higher order learning.

Table B.2.2.1b: Results–Semester End Examination

SL No	Year - Semester	Batch 2020-21	Batch 2021-22	Batch 2022-23
1	2-1 & 2-2	74.55% & 50.91%	49.09% & 83.64%	58.18% & 62.96%

2	3-1 & 3-2	50.91%& 87.27%	90.57% & 94.12%	71.67 & 62.26
3	4-1 & 4-2	69.09% & 100%	88.24% & ---	NA

Impact:

P-P teaching is a technique in-class learning methodology where the teacher i.e. Student playing role of teacher is getting benefited. It can be considered that peer to peer teaching immensely influenced the students playing the role of the teacher. The learning is consolidated while sharing the knowledge with their peers.

From the above table it is evident that the academic performance of students is improved from second year to final year by the implementation of Peer-to-Peer teaching methodology.

b. Think-Pair-Share (TPS):

TPS technique keeps all the students involved in class room discussions and provides an opportunity for every student to share an answer to every question. It takes the fear out of class room discussion by allowing the students to think and share carefully with a partner/peer before they called to respond.

Implementation of Think-Pair-Share Methodology: Monitor and support students as they work through the following:

T: (Think) Teachers initiate the process by asking a specific question. Students "think" about what they know or have learned about the topic.

P: (Pair) Each student shall be paired with another student or a small group.

S: (Share) Students share their thinking with their partner. Teachers expand the "share" into a whole-class discussion.

The following are few more collaborative learning activities that are implemented by Electrical & Electronics Engineering Department. They are as follows:

- Seminars
- Poster presentations
- Paper presentations
- Group Discussion
- Lecture with Quiz
- JAM sessions

Table B.2.2.1c: No. of students participated in Inter-institute events

Sl. No	Academic Year	No. of students participated in inter institute co-curricular competition.
1	2024-25	76
2	2023-24	72
3	2022-23	70

Impact Analysis:
It is observed that, the students are actively involved in co-curricular activities conducted by different organizations. It is evident that from the data presented in Table B.2.2.1c.

EXPERIENTIAL LEARNING:
Experiential learning has been initiated through Projects, field practice, Lab work and Internships. Projects, Lab assignments, and Internships are most encouraging tasks of experiential learning at the Institute. The motive is to introduce experiential learning to create platform for the students in such a way they get direct experience and exposure of workplace setting, which in turn leads to all round development of the students under the guidelines of experienced teachers in the respective domain.

Internship
All students will undergo internships / Apprenticeships in a firm, industry, or organization or Training in labs with faculty and researchers in their own or other HEIs/research institutions during the summer term. It is requiring students to participate in a professional activity or work experience, or cooperative education activity with an entity external to the education institution. The key aspect of the internship is induction into actual work situations**.** Internships involve working with local industry, government or private organizations, business organizations, to provide opportunities for students to actively engage in on-site experiential learning or to experience the current work from home setup. Students may actively engage with the practical side of their learning and, as a by-product, further improve their employability.

Table.2.2.1d: No. of students participated in Summer Internships

Sl. No	Academic Year	No. of students participated Summer Internships
1	2024-25	105
2	2023-24	106
3	2022-23	110

Field-based learning/Field Practice: The field-based learning/Community Service project will attempt to provide opportunities for students to understand the different socio-economic contexts. It will aim at supplementing student theoretical learnings by actual life experiences to generate solutions to real-life problems. They would have the opportunity to gain an understanding of the complex socio-economic problems in the community, and innovative practices required to generate solutions to the identified problems. It will provide opportunities for students to observe situations in rural and urban contexts, and to observe and study actual field situations regarding issues related to socioeconomic development. Students will be given opportunities to gain a first-hand understanding of the policies, regulations,

organizational structures, processes, and programs that guide the development process.

Table.2.2.1e: No. of students participated in CSP

Sl. No	Academic Year	No. of students participated in CSP
1	2024-25	46
2	2023-24	51
3	2022-23	54

Skills Enhancement Courses and Micro-credentials: SECs and Micro-credentials are aimed at imparting practical, industry-relevant skills hands-on training alongside academic knowledge to **thrive in a dynamic, technology-driven job market.** By integrating these courses into the academic framework, we bridge the gap between traditional education and the dynamic demands of industry.

Table B.2.2.1f: No. of students participated in industry certifications

Sl. No	Academic Year	No. of students participated industry certifications
1	2024-25	51
2	2023-24	105
3	2022-23	105

Project Method

This method is used to improve the ability to apply and to reinforce knowledge imparted in the classroom. Being a technical Institute, this method is extensively used to provide empirical evidence of the theory which is learnt in the classroom. This will help the students to understand and apply concepts, principles or laws learnt. The faculty guides the students at various stages of developing the projects to give timely inputs for the development of the model.

Major steps of the Project Method:

1. Creating the situation (providing a situation)
2. Choosing the project (Selection of the Project)
3. Planning
4. Carrying out the project (Executing)
5. Evaluating
6. Project Report

Table B.2.2.1g: No. of student Placements

Sl. No	Academic Year	Student Placements
1	2023-24	35
2	2022-23	22
3	2021-22	26

Impact: Experiential Learning is imparting practical, industry relevant skills, hands-on-training alongside academic knowledge to thrive in a dynamic, technology driven job market. It is evident from the above table that the no. of. the students placed and the quality of the placements is improved.

Quality of Laboratory Experience	• **Comprehensive Lab Manuals**: Providing detailed manuals with objectives, procedures, and expected outcomes for experiments. • **Hands-On Learning**: Emphasis on hands-on experimentation, data collection, and analysis to bridge theoretical and practical knowledge. • **Regular Maintenance and Upgrades**: Ensuring laboratories are well-maintained and equipped with modern instruments and technologies. • **Faculty and Technician Support**: Availability of trained faculty and technical staff to guide students during lab sessions.

The laboratory experience is a vital part of the learning process. Students learn and retain information more effectively after the hands-on experience. Labs provide students first-hand experience with course concepts and methods. Department of Electrical & Electronics Engineering consists of 08 well equipped and state of the art laboratories.

Table B.2.2.1h: Rubrics – Internal/Continuous Evaluation – Lab Courses

Parameter	Descriptor with score			
Observations and Calculations (5)	The experimental Observations and calculations are recorded in neatly prepared table with correct units and significant figures. One sample calculation is explained by	The experimental observations and calculations are recorded in neatly prepared table with correct units and significant figures but	The experimental Observations and calculations are recorded neatly but correct units and significant	The experimental observations and results are recorded Carelessly. Correct unit significant figures are not followed and

	substitution of values (3 or 2)	sample calculation is not shown (1)	figures are not used. Sample calculation is also not shown (1)	sample calculations not shown (0 or 1)
Write up format (10)	Aim, Apparatus, Material requirement, theoretical basis, procedure of experiment, sketch of the experimental setup etc. is demarcated and presented in clearly labeled and neatly organized sections. (8-10)	The write up follows The specified format but a couple of the specified parameters are missing. (5-7)	The report follows the specified format but a few of the formats are missing and the experimental sketch is not included in the report (2-4)	The write up does not follow the specified format and the presentation is shabby.(0-1)
Results and Graphs (10)	Results obtained are correct within reasonable limits. Graphs are drawn neatly with labeling of the axes. Relevant calculations are performed from the graphs. Equations are obtained by regression analysis or curve fitting if relevant (8-10)	Results obtained are correct within reasonable limits. Graphs are drawn neatly with labeling of the axes. Relevant calculations from the graphs are incomplete and equations are not obtained by regression analysis or curve fitting (5-7)	Results obtained are correct within reasonable limits. Graphs are not drawn neatly and or labeling is not proper. No calculations are done from the graphs and equations are not obtained by regression analysis or curve fitting (2-4)	Results obtained are not correct within reasonable limits. Graphs are not drawn neatly and or labeling is not proper. No calculations are done from the graphs and equations are not obtained by regression analysis or curve fitting (0-1)
Discussion of Results (5)	All relevant points of the result are discussed and justified in light of theoretical	Results are discussed but no theoretical reference is mentioned.	Discussion of results is incomplete and divergent results are not	Neither relevant points of the results are discussed nor divergent results

	expectations. Reasons for divergent results are identified and corrective measures discussed. (3or 2)	Divergent results are identified but no satisfactory reasoning is given for the same (1 or 0)	identified (0or1)	identified (0or1)

Impact-Laboratory experience

- Average pass % in laboratory examinations – 98%
- Average student attendance % in laboratories – 89%

From the above, it is evident that student participation and attainment of POs through laboratory courses are improved.

Encouragement for Bright Students	• **Research Opportunities**: Providing opportunities to work on advanced research projects, publish papers, and participate in conferences. • **Competitions and Scholarships**: Encouraging participation in technical and academic competitions, hackathons, and providing merit-based scholarships. • **Advanced Learning Materials**: Access to advanced reading materials, software tools, and additional coursework for deeper learning.

Department of Electrical & Electronics Engineering follows a streamlined mechanism for continuous monitoring and evaluation of the students. This mechanism is to customize teaching for two different groups like bright and slow learners and also to meet the different learning needs of the students.

Strategies adopted for facilitating advanced learners:

Advanced learners are continuously encouraged to strive for higher goals by providing them additional information for better career planning and growth. The approaches for facilitating advanced learners are as follows:

- Engaging them in peer to peer and other collaborative learning activities
- Devising challenging assignments commensurate with their skills.
- Special training to motivate students to excel in co-curricular events & competitions.
- Encouraging them to participate in classroom seminars, group discussions, technical quizzes to develop analytical and problem-solving abilities in them and thereby, to improve their higher order learning capabilities.
- Motivating to access latest online journals, reference material and to get an understanding of the emerging trends in their field of study.

- Training them in the use of audio-visual aids like use of power point, charts, models etc. for effective presentation.
- Encouraging them to attend science expos in order to design and to develop prototypical working models which give shape to their ideas.
- Giving opportunities to share their ideas on suitable platforms.
- Merit Scholarships for the top 10% performers in a class.

In addition to the above, GATE Preparation classes are conducted for the advanced learners; the details are presented in Table B.2.2.1i.

Table B.2.2.1i: Details of the GATE Coaching

S.No.	Course Name	Name of the Faculty member	No. of sessions Conducted
1	Analog and Digital Electronics	Mr. G. Pavan Kumar	30
2	Electrical Machines	Dr. P. P. Sharma	55
3	Power Systems	Dr. L. Shanmukha Rao	65
4	Electrical & Electronic Measurement	Mrs. P. Kavitha	40
5	Signals and Systems	Mr. D. Rama Naidu	25
6	Control Systems	Mr. P. Venubabu	25
7	Electric Circuits & Electromagnetic Fields	Dr. K. Hari Krishna	35
8	Power Electronics	Dr. G. Kishor Babu	25

Support for Weak Students	• **Remedial Classes**: Organizing foundation or remedial courses for students with knowledge gaps in core subjects. • **Mentoring Programs**: Assigning faculty mentors to provide academic and emotional guidance. • **Peer Learning**: Facilitating peer-to-peer learning where stronger students help weaker ones through collaborative study sessions.

Identification of weak students:

The identification of weak students is done by the following measures

- Students securing less than 60% of marks in first mid Internal Examination in each semester
- Students securing less than 60% of marks in External Assessment of every semester.
- Students who are having backlogs.
- Students whose attendance is less than 65%.

Facilitation of weak students-support:

- Extra classes are conducted to improve learning abilities of the students.
- Continuous monitoring and evaluation of weak students is done by giving them Assignments and conducting unit wise tests after completion of each unit.
- Remedial classes are conducted for the benefit of the students with backlogs
- Each faculty member (mentor/counselor) is assigned with a batch of 20 students.
- The mentor/counselor interacts with the students to instill confidence and identify the students those who are suffering from psychological / emotional problems. They are appropriately mentored and helped to overcome their problem. Mentoring with additional teaching eventually helps to make them regular.
- All the faculty members maintain a good rapport with students and deal with their problem in an empathetic manner.
- Bridge courses are conducted for the lateral entry students who are weak in mathematics and computer programming.

Table 2.2.1j: Successful Students through Remedial Classes

S.No	Name of the Course	No. of Students Failed	No. of Students Registered for Supplementary Examinations	No. of Students Passed	% of Successful Students Through Remedial Classes
1	Utilization of Electrical Energy	3	3	3	100.00
2	Power System Analysis	3	3	3	100.00
3	Power Systems-II	3	3	3	100.00
4	Economic operations and control of power systems	2	2	2	100.00
5	Control Systems	5	5	4	80.00
6	Induction & Synchronous Machines	6	6	4	66.67
7	Digital Integrated circuit analysis	15	15	8	53.33
8	Electrical Circuit Analysis-I	15	15	7	46.67

Impact-Remedial classes:

From the above table, the percentage of successful students through remedial classes

<table>
<tr><td colspan="2">is evident.</td></tr>
<tr><td>Continuous Assessment and Feedback Mechanisms</td><td>• Student Feedback: Collecting regular feedback from students regarding teaching quality, course content, and classroom environment.
• Faculty Self-Assessment: Encouraging faculty to reflect on their teaching practices and identify areas for improvement.</td></tr>
<tr><td colspan="2">Collecting feedback on the teaching-learning process helps educators improve instructional methods, course design, and student engagement.
Feedback collection process: After completion of two weeks and fourteen weeks of the instruction. The questionnaire is designed to enable them to give their opinion as Excellent, Very Good, Good, Satisfactory and Not Satisfactory. The feedback collected and analyzed by the Head of the Department and the same is forwarded to the Principal. The faculty whose average rating is below satisfactory level will be counseled personally by the senior faculty and HOD for further improvement.
<u>Indices used for measuring quality of teaching & learning:</u> All the below indices are analyzed statistically for drawing inference on each item and shown to the respective faculty.
• Punctuality to class
• Willingness to clear the doubts
• Applications of the topic covered
• Pace of syllabus coverage
• Interaction with the students
• Use of examples & illustrations</td></tr>
<tr><td>Impact Analysis</td><td>• Enhanced POs & PSOs: Improved understanding and application of knowledge among students.
• Improved Academic Results: Consistent improvement in grades and professional achievements.
• Student satisfaction survey results: Higher satisfaction rates among students.</td></tr>
<tr><td colspan="2"></td></tr>
</table>

Attainment of POs and PSOs - LYG

Table B.2.2.1k: Attainment of POs and PSOs - LYG

Attainment	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
Direct Attainment	2.02	2.02	2.67	2.94	2.89	2.18	2.55	2.14	2.77	2.26	2.2	2.10	2.34	2.67	2.99
% Attainment	67.3	67.33	89.0	98.0	96.33	72.66	85.0	71.33	92.33	75.33	73.33	70.0	78.0	89.0	99.66

Impact: Attainment of POs & PSOs are improved.

Student Satisfaction Survey (SSS)

Student Satisfaction Survey for the academic year 2023-2024 was conducted online with the help of specially designed questionnaire consisting 20 questions reflecting various aspects of Teaching, Learning and Evaluation. There was also scope provided for the students to express their opinion and suggestions for the improvement of learning experience in the institution. Keeping demographic distribution, rural background and for better understanding of the questions in the questionnaire are explained in order to generate more honest responses. The survey was conducted through google forms consisting of 21 questions of which 20 were objective type measuring satisfaction in different aspects of teaching learning and evaluation and 21st question was subjective in which students were asked to provide three suggestions to the management and teachers for improving learning experience. The link of the survey was shared among different students' WhatsApp groups.

Table B.2.2.1l: Question Wise Analysis Report % of total samples

Q. No.	Question	A	B	C	D	E
		4	3	2	1	0
1	How much of the syllabus was covered in the class?	46.1	25.1	14.6	10.5	3.7
2	How well did the teacher prepare for the class?	36.1	58.4	4.6	0.9	0
3	How well were the teachers able to communicate?	57.1	24.2	14.6	2.7	1.4
4	The teacher's approach to teaching	51.1	34.7	11.4	2.3	0.5
5	Fairness of the internal evaluation process by the teacher	51.1	34.7	11.4	2.3	0.5

6	Was your performance in assignments discussed with you?	49.8	35.2	10	2.3	2.7
7	The institute takes active interest in promoting internship, field visit opportunities for students	42.9	21.9	18.7	10	6.4
8	The teaching and mentoring process in your institution facilitates you in cognitive, social and emotional growth.	30.1	43.8	20.5	4.1	1.4
9	The institution provides multiple opportunities to learn and grow	33.3	42.5	18.7	3.2	2.3
10	Teachers inform you about your expected competencies, course outcomes, program outcomes and program specific outcomes.	44.3	39.7	11.4	4.6	0
11	Tour mentor/class teacher/course instructor does a necessary follow-up with an assigned task to you.	45.7	35.6	13.7	4.1	0.9
12	The teachers illustrate the concepts through examples and applications.	50.7	34.7	9.6	4.6	0.5
13	The teacher identify your strength and encourage you with providing right level of challenges.	42	33.3	11	8.2	5.5
14	Teachers are able to identify your weaknesses and help you to overcome them.	39.7	29.7	13.2	8.2	9.1
15	The institution makes effort to engage students in the monitoring, review and continuous quality improvement of the teaching learning process.	36.1	39.3	16.4	6.4	1.8
16	The institute / teachers use student centric methods, such as experiential learning, participative learning and problem solving methodologies for enhancing learning experience.	37	40.6	15.1	5.9	1.4
17	Teachers encourage you to participate in extracurricular activities.	43.4	36.1	14.2	3.2	3.2
18	Efforts are made by institute / teachers to inculcate soft skills, life skills and employability skills to make you ready for the world of work.	42.5	36.1	13.2	6.8	1.4
19	What percentages of teachers use ICT	34.2	38.4	17.4	5	5

	tools such as LCD projector, multimedia etc. while teaching?					
20	The overall quality of teaching-learning process in your institute is very good.	35.6	44.3	18.4	2.7	0.9
	Total	**42.44**	**36.47**	**13.65**	**4.40**	**3.93**

Impact: The overall student perception is improved and it is in the range of 75% to 80%.

Students Success

Table B.2.2.1m: Percentage of the students successfully graduated

Year of entry	***N*1 + *N*2 + N3 (As defined above)**	**Number of students who have successfully graduated in stipulated period of study)**				**% Success**
		I Year	II Year	III Year	IV Year	
CAY (2024-25)	37					
CAYm1 (2023-24)	21+32+0=53	20				
CAYm2 (2022-23)	33+28+0=61	33	55			
CAYm3 (2021-22)	26+32+0=58	25	55	54		
CAYm4 LYG (2020-21)	42+14+0=56	41	55	55	39	70.91
CAYm5 LYGm1 (2019-20)	30+21+0=51	30	51	48	26	50.98
CAYm6 LYGm2 (2018-19)	33+21+0=54	33	54	51	33	61.11

Impact: The percentage of the students successfully graduated in stipulated period of study is improved.

2.2.2 Quality of end semester examination, internal semester question papers, assignments and evaluation (15)

Examinations/student assessments play a very important role in deciding the quality of education. Evaluation, grading and certification solely rest on examinations which play an important role in the progression of a student on the learning path. The examinations not only indicate whether the desired learning outcomes have been achieved but also assess the level of achievements against benchmarks. Thus, examinations serve as checkpoints for both the student and the external world, allowing appropriate certification to be issued reflecting the proficiency of an individual operating in socio-economic spheres. The following outlines the initiatives, implementation details, and analysis related to improving the quality of semester tests, assignments, and evaluations.

Initiatives to Enhance Quality	• **Centralized Examination Cell**: A dedicated examination cell oversees the seamless and standardized conduct of exams and evaluations. • **Standardization of Internal and End-Semester Assessments**: Use of a pre-approved template for question papers to ensure i) clarity and consistency ii) Maps questions to learning outcomes, Bloom's Taxonomy cognitive levels (BTL) iii) Aligns questions with Course Outcomes (COs) and Program Outcomes (POs). • **Diverse Assessment Techniques**: MCQs, short answers, and long questions and open book assessments. • **Confidentiality and Transparency:** Strict protocols are followed to maintain confidentiality in question paper preparation and storage.

Appreciating the importance, KHIT has established "**Centralized Examination Cell (CEC)**" which ensures the seamless and standardized conduct of assessments and evaluations and adherence to the quality aspects of academics. The CEC administers pre-approved template in-line with AICTE Examination Reforms Policy 2018.

Internal Semester Examination Papers, Assignments and Evaluation

The PAQIC at the program level reviews the syllabus coverage of each course, quality of internal test question papers, assignments, tutorial questions and evaluation of answer scripts. The following steps are scrupulously followed to ensure quality control.

1. Every faculty member will be the course coordinator for the course(s) offered by him/her.
2. If any course with the same code has multiple course coordinators, then the senior faculty will be designated as the Course Advisor.
3. A group of related courses will have a Module Coordinator.
4. Every faculty will prepare a course handout which clearly specifies the outcomes of their respective course. They are instructed to prepare assessment matrix to assess the outcomes of courses.
5. Each course outcome is assessed by three assessment tools Descriptive, objective and open book assignment
6. Every outcome has 2-3 Assignment questions for the assessment of course outcomes and evaluated for 5 marks. These assignments questions are given to the students from the question bank prepared by concerned course coordinator. The question bank is ratified by the module coordinator and/or Program coordinator.
7. The assignments are to be submitted at the end of each unit - they are evaluated - marks are entered in Assessment matrix on regular basis.
8. All the above marks will be entered in Assessment matrix on regular basis.
9. The course material is uploaded in the college website.
10. The Internal - I and Internal - II question papers are set by the course coordinator by covering all the units uniformly to meet all the outcomes.
11. The question papers are reviewed and approved by the course advisor /Module coordinator.
12. The scrutinized paper is counter signed by the Program Coordinator for approval.

13. The internal assessment answer sheets are reviewed by the academic audit committee to verify the quality of evaluation.

Evaluation Process - Transparency:

- The evaluation of answer scripts is done by the respective faculty members as per the scheme of valuation.
- Answer scripts will be given to the students to verify any discrepancies/ errors will be attended by the faculty before submitting the final marks to the CEC.

Following is the sample copy of Internal Semester Examination question paper.

KALLAM HARANADHAREDDY INSTITUTE OF TECHNOLOGY
(Autonomous)
KHIT
Approved by AICTE, Affiliated to JNTUK Kakinada, Accredited by NAAC 'A' Grade
Course Code: 20PCC2108
II B.Tech I Semester (R20A) Mid-1 Descriptive Examinations – October 2023
Course Name: Electrical Circuit Analysis - II
(Only for EEE)

Date of Examination: 04-10-2023 SET-1
Course Coordinator Name: Mr. P. Venubabu
Max Marks: 25 **Academic Year:** 2024-25 **Time:** 90 Min

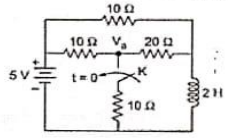
Answer All Questions
All Questions carry EQUAL marks

Q.No.	1.A	1.B	2.A	2.B	3.A
CO Mapping	CO202.1	CO202.1	CO202.1	CO202.1	CO202.1

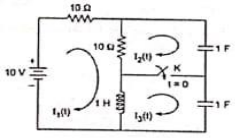
1. A. Explain the measurement of reactive power using single wattmeter method in a three phase circuit. 5M

   B. In the two wattmeter method of power measurement, the power registered by one wattmeter is 3500W, while the other reads downscale. After reversing, later it reads 300W. Determine the total power in the circuit and power factor. 5M

2. A. In the network shown in below figure, steady state is reached with switch K open. At t=0, switch is closed. For the element values shown determine values for $V_a(0^-)$ and $V_a(0^+)$. 5M



   B. The network shown steady state with switch k is open. At t=0 switch is closed, determine $I_1(0^+)$, $I_2(0^+)$ and $I_3(0^+)$. 5M



3. Derive the expression for transient response in series R- C circuit for AC excitation. 5M

Question No__Course Outcome__MAPPING __Bloom's Score

Question No.	1.A	1.B	2.A	2.B	3.A
Course Outcome	C202.1	C202.1	C202.2	C202.2	C202.3
Marks allotted (Xi)	5	5	5	5	5
Bloom's Taxonomy level	2	3	3	3	2
Bloom's Taxonomy Score on a Scale of (1-10) (S_i)	4	6	6	6	4
Bloom's Index Score	5.2				

$$Blooms\ Index(BI) = \frac{\sum_{i=1}^{n} X_i * S_i}{\sum_{i=1}^{n} X_i}$$

Where 'n' are the number of questions in the Internal test paper / Assignment
'X_i' is the marks allocated for the i^{th} question as per the assessment plan
'S_i' is the score allocated for the i^{th} question as per the Blooms Taxonomy score

$$BI = \frac{5 \times 4 + 5 \times 6 + 5 \times 6 + 5 \times 6 + 5 \times 4}{5+5+5+5+5} = \frac{130}{25} = 5.2$$

Code	Course	Faculty Name	Blooms Index	Attainment Level	Remarks of Module coordinator
C202	Electrical Circuit Analysis - II	Mr. P. Venubabu	5.2	Moderate	

Note: <4- easy 4-7 moderate >7- difficult

Course Co-ordinator/Advisor Module Co-ordinator Program Co-ordinator

Fig. 2.2.2a: Sample Internal examination question paper

Guidelines to Faculty:

- The faculty must prepare question paper for descriptive tests keeping in view of course outcomes.
- Bloom's taxonomy, along with the scheme must be adopted for framing questions by covering all the course outcomes.
- To assess different learning capabilities and skills of students, the questions are prepared based on course outcomes mapping with Bloom's score.
- **Level 1 - 2** – These are the questions that the students **"must know" –**These questions constitute the fundamental concepts of a subject and it is mandatory that every student is aware of these concepts. Further, these questions are at the basic level of Blooms taxonomy like **Remembering and Understanding**. Lack of these fundamental concepts would mean that the student is not fit for passing this course.
- **Level 3 - 4** – These are the questions that the students **"Need to Know" –** These questions test the skill of the student at a higher level of Blooms Taxonomy like **Applying and Analyzing**, the student should be able to apply the fundamental knowledge gained in a course to analyze a typical problem and arrive at conclusions.
- **Level 5 - 6** – these are the questions that have the status of **"Good to know" –** These questions test the utmost skills of Blooms Taxonomy like **Evaluate and Create**. A student would be considered to have achieved proficiency in the subject if he/she is able to answer the questions in Level 5 - 6 and is able to apply the concepts for finding innovative solutions to engineering problems.
- The module coordinators regularly analyze the assignment and internal papers and classify them into the above six levels and ensure that a good balance is maintained ensuring the quality of assessments.

Bloom's levels of Cognition – Bloom's Index

Bloom's Taxonomy Level	1		2		3		4, 5		6	
Bloom's Index Score	1	2	3	4	5	6	7	8	9	10
Semester End Examination										

Question Paper Planning – Paper Setter: The PAQIC at the program level prepares panel of paper setters to the BoS. The BoS – approved panel of subject experts for paper setting, syllabus and a model paper are communicated to the CEC at beginning of the semester to procure question papers on time. The approved panel consists of 5 paper setters /Theory Course. The subject experts are from different Public Universities/reputed institutions. On receipt of panel of question paper setters, the selection of examination question paper setters would be done by the CEC based on the experience and qualifications of the paper setter. The CEC contacts the paper setters and a formal invitation is sent over the mail inviting them to submit two sets of papers. The paper setter is provided with syllabus and model paper for reference.

Guidelines for question paper setters: The Question Paper Setters are requested to comply with the following instructions and guidelines while setting the Question papers.

- The Paper Setters shall prepare different sets of Question papers for each theory course as per the syllabus enclosed.
- The Paper Setters shall strictly adhere to the model question paper enclosed.
- The maximum marks for any paper is 70
- A total of five questions, one from each unit with internal choices are to be set in each Question paper.
- The Paper Setter shall clearly indicate the marks allotted in each part of the question.
- The Figures/Drawings/Circuit diagrams must be drawn by clearly indicating dimensions, etc., wherever necessary; and shall be adopted suitably in the question paper.
- The question paper shall be submitted in soft format and not preserved in any form, either in part or full; and must be destroyed/deleted as the case may be, after the completion of setting.
- The paper setter shall carefully verify all the questions and numerical problems before dispatching the question paper sets.
- Usage of handbooks or data sheets by candidates while answering questions must be indicated in the question paper itself.
- The Paper Setters shall also provide schemes of valuation and solutions to numerical problems, wherever necessary and forward them along with the question paper(s).
- The Paper Setters shall ensure confidentiality and security of the Question papers and its content.
- The Paper Setters shall set numerical problems/data only in SI System of units.
- The Question sets must adhere to the Bloom's taxonomy that distributes questions and marks according to their level of complexity.

Question Paper Selection and Moderation: The semester end examinations are

conducted as per the academic calendar of the institution. Two sets of question papers are prepared for each course and placed in sealed covers before the commencement of examinations. On the day of examination, one hour prior to the examination, one set is picked at random for each course by the Head of the Institution and the paper is issued to the Moderator. The moderator appointed is the course advisor and submit the moderation report to the CEC.

Following is the sample copy of External Semester Examination question paper

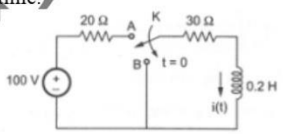
KALLAM HARANADHAREDDY INSTITUTE OF TECHNOLOGY (AUTONOMOUS)

Subject Code: 20PCC2108 **R20A**

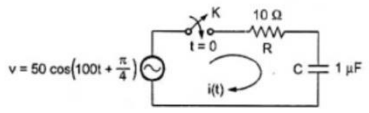
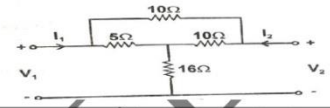
II B. Tech I Semester (R20A) Regular Examinations, December 2023
(ELECTRICAL CIRCUIT ANALYSIS-II**)**
(Electrical and Electronics Engineering**)**

Time: 3 hours Max. Marks: 70

Answer All Questions
All Questions carry equal marks **[5 X 14=70]**

Q. No			UNIT 1	CO	BTL	Marks
1	A	i	Derive voltage and current relations in delta connected Balanced load and draw the phasor Diagrams.	1	2	[7M]
		ii	Three equal star connected inductors take 8KW at p.f of 0.8 when connected to a 460V, 3-Ø 3-wire system. Find the line currents if one conductor is short circuited	1	3	[7M]
			(OR)			
	B	i	Explain the measurement of reactive power using single wattmeter method in 3 –Φ circuit	1	2	[7M]
		ii	In the 2- wattmeter method of power measurement, the power registered by one wattmeter is 3500 W, while the other reads downscale. After reversing, latter it reads 300W. Determine the total power in the circuit and power factor	1	3	[7M]
			UNIT 2			
2	A	i	Derive the expression for transient response in series R-L-C circuit for DC excitation.	2	2	[7M]
		ii	In the circuit shown in figure initially switch is kept position A for loon time. At t=0, switch is moved to position B. Find the expression for current for t.>0.Find the value of current at t=6.66667 msec,20 msec. Plot the variation of current through inductor versus time. 	2	3	[7M]
			(OR)			
	B	i	What are the initial and final conditions of the R, L, C & write switching conditions?	2	2	[7M]
		ii	State Time response, Steady state response & Transient response and distinguish between Steady state response & Transient response.	2	3	[7M]
			UNIT 3			
3	A	i	Derive the expression for transient response in series R- C circuit for AC excitation.	3	2	[7M]

MODEL PAPER

		ii	Determine the complete solution for a current in the circuit when switch K is closed at t=0. 	3	2	[7M]
			(OR)			
	B	i	Explain the transient response of series R-L circuit with sinusoidal excitation.	3	2	[7M]
		ii	A series RL circuit with R=50 Ω & L=0.2H has a sinusoidal voltage source V= 150 sin(500t+ Ø)v, applied at a time when Ø=0. Find the expression for total current.	3	2	[7M]
			UNIT 4			
4	A	i	Derive the relation for h-parameters in terms of ABCD parameters	4	2	[7M]
		ii	Obtain the transmission line parameters when the two transmission networks having the transmission parameters A1, B1, C1, D1 and A2, B2, C2, D2 are connected in cascade.	4	3	[7M]
			(OR)			
	B	i	Find Y parameters for the given network. 	4	3	[7M]
		ii	A typical two-port network is characterized by the equation $2V_1 + 4I_2 = I_1$ and $V_2 + 6V_1 = 8I_2$. Determine values of Y_{11}, Z_{21} and h_{21}.	4	3	[7M]
			UNIT 5			
5	A	i	Compare low pass and high pass filters.	5	2	[7M]
		ii	Obtain the Characteristic Impedance and Propagation Constant of T & π- Networks	5	3	[7M]
			(OR)			
	B	i	Explain m-derived high Pass Filter	5	2	[7M]
		ii	Design the m-derived high-Pass filter with a cut-off frequency of 1 KHz; design impedance of 5Ω and m=0.6.	5	3	[7M]

****

MODEL PAPER

Fig: 2.2.2b:Sample semester end examination question paper

Impact Analysis	• **Improved Learning Outcomes**: Students demonstrate a better grasp of concepts, problem-solving skills, and critical thinking abilities due to varied assessment methods.

2.2.3 Quality of student projects (20)

Mandatory Internship, both industry and social, is included in the revised curriculum that aims at making engineering graduates connect with the needs of the industry and society at large. It is mandatory for the students to intern in the industry/field for 10 months during the summer vacation and also in the final semester to acquire the skills required for job. Ten months' mandatory internship program includes an 8 weeks'

community service project followed by 2 summer internships and a semester long internship and project in the final semester.

Long Internship and Project: APSCHE developed Industry Institute Connect Portal, an innovative initiative with an aim to bridge the gap between academia and industry by fostering partnerships, offering internships, and providing students with access to a wide range of skill-building opportunities. This is a **15 Weeks** experiential learning program designed to make the students employable. This program helps students build their profile aligned to a job role through hands-on project-based learning under the guidance of industry mentors. It helps students acquire technical and professional competencies while working on real-world challenges and creating innovative solutions. The program encourages students to think critically and creatively, and it is designed to provide industry-level training at the college level.

This Program contains the following modules:

- **Technical Training & Self Learning** - 60 Hrs. of live hands-on technical training and 40Hrs. of self-learning course.
- **Project Development** - 120 Hrs. of project development along with AMA sessions to clear
- the queries.
- **Interview Preparation**- 10 Hrs. of interview preparation to build the confidence
- **Career Development Course** -10 Hrs. Career development course to guide the right path.

A. Initiation of Long Internship and project work:

- Department appoints SPOC
- All the students are registered with APSCHE-IIC portal
- Students Choose a virtual internship aligned with their interests and aspirations
- Faculty members are registered to act as mentors
- Mentor and Mentee mapping
- Orientation program and Initiation of Long Internship and project work

Table B.2.2.3a: Long Internship and Project – Tracks/Technologies

S.No	Technology Track	Registration Links
1	Electric vehicle	https://learn.skilldzire.com/s/mycourses
2	Solar PV plant design	https://learn.skilldzire.com/s/mycourses
3	Industrial Automation	https://learn.skilldzire.com/s/mycourses

Table B.2.2.3b: **Long Internship and project work – Time Line**

S.No.	Week	Program Activity	Hrs.
1	Week 1	Hands-on training (2 hrs/day) + Self Learning (2 hrs/day)	20
2	Week 2	Hands-on training (2 hrs/day) + Self Learning (2 hrs/day)	20
3	Week 3	Hands-on training (2 hrs/day) + Self Learning (2 hrs/day)	20
4	Week 4	Hands-on training (2 hrs/day) + Self Learning (2 hrs/day)	20
5	Week 5	Hands-on training (2 hrs/day) + Self Learning (2 hrs/day)	20
6	Week 6	Project Development (2 hrs/day) + Knowledge Sessions (1 hr/day)	15
7	Week 7	Project Development (2 hrs/day) + Knowledge Sessions (1 hr/day)	15
8	Week 8	Project work (3 hrs/day) + AMA Session (1 hr/day)	20
9	Week 9	Project work (3 hrs/day) + AMA Session (1 hr/day)	20
10	Week 10	Project work (3 hrs/day) + AMA Session (1 hr/day)	20
11	Week 11	Project work (3 hrs/day) + AMA Session (1 hr/day)	20
12	Week 12	Project work (3 hrs/day) + AMA Session (1 hr/day)	20
14	Week 14	Interview Preparation (1hr/day)	5
15	Week 15	Career Development (1hr/day)	5

B. **Program Execution – Flow**

- Students should enroll on the APSCHE – IIC Portal to participate in the Program
- Student training calendar will be shared with college SPOC and as well as students. Live sessions will be organized as per the schedule prepared.
- Students will receive login credentials via their registered email ID

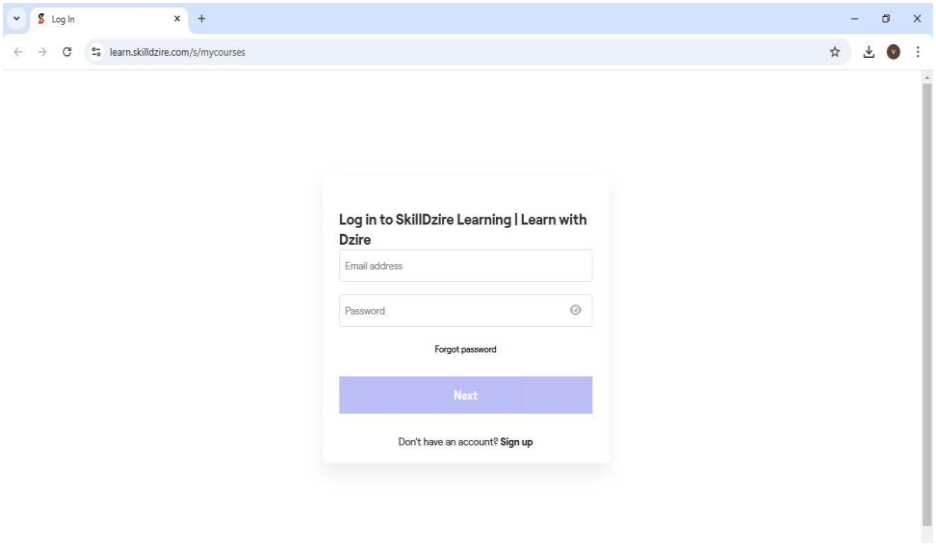


Fig. 2.2.3a: Long Internship and Project - Platform

- A training calendar and course curriculum will be shared with students.

- Students are required to join the provided WhatsApp or Telegram groups for updates.
- During technical sessions, students can ask doubts at the end of the session or post them in the respective WhatsApp or Telegram groups.
- Mentors or trainers will assist in clarifying doubts.
- Weekly quizzes will be conducted, each carrying 10 marks.
- Weekly student attendance will be shared with the college and SPOC.
- Zoom session links will be shared to the registered email ID. Students must log in with their registered email ID.

Students can also join the sessions using the platform by using following steps

- Login to SkillDzire Platform.
- Step 1 - Click on Training Calendar
- Step 2 - Click on the Joining link to join the Technical Live Sessions.
- Step 3 - Click on view to get access for recorded sessions.

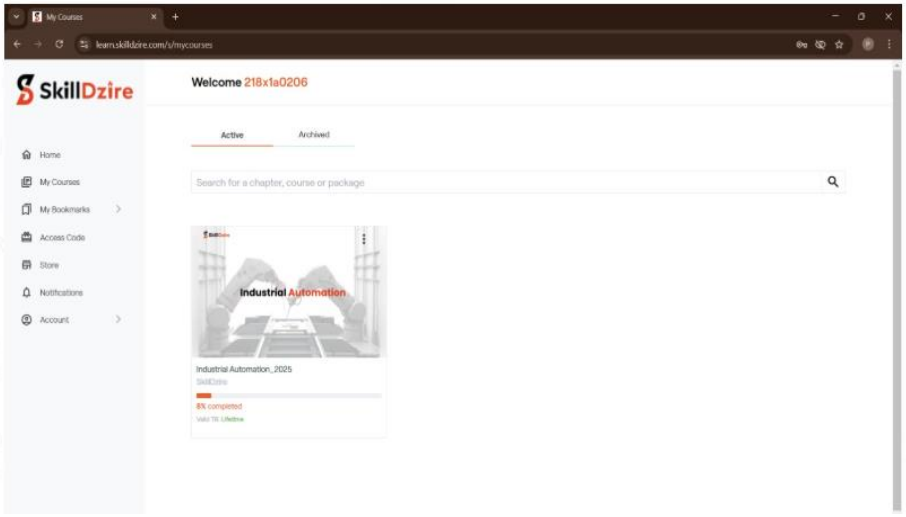


Fig. 2.2.3b: Long Internship and Project Training Calendar

- After the completion of the training sessions, a final grand assessment will be conducted, carrying 30 marks.
- **Team Formation and Project Assignment**:
  - SkillDzire SPOC platform logins will be created to form student teams.
  - SPOC will assign projects to teams on the SkillDzire Platform.
  - Project Development
  - Students will develop projects which are assigned to them as a team with mentor support.
  - All Students will work on one single project as a team and need to complete milestones and tasks within the given time period.
- Project Submission and Evaluation
  - Tasks, documents, files, codes, PPT, and a live video

explanation of the project should be uploaded to the team leader's GitHub public repository account.

- Students must share the GitHub link with the SPOC.
- Video Reference -https://youtu.be/6l0UR7Co7YA

- Project Evaluation: Total scoring for the program will be 100 marks and 30% will of which would be a technical assessment score and the remaining 70% would be a project evaluation score as below

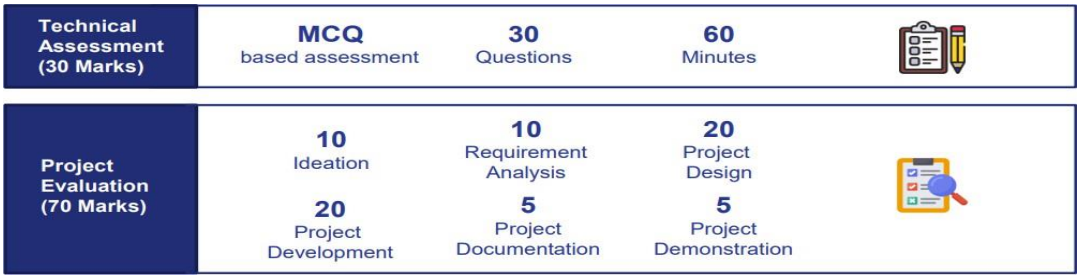


Fig 2.2.3c: Long internship and project- Assessment and evaluation

- Mandatory: Need to Attempt Grand Assessment, Attendance above 75%, In time Project submission.
- Certification: Projects will be evaluated on both individual and Team bases, Certificates are issued to the students based on that and a summary report will be provided to the College.

The students who have completed certifications are evaluated by a project evaluation committee consisting of external examiner, spokes & mentor.

Table B.2.2.3c: Types and relevance of the projects and their contribution towards the attainment of POs and PSOs

Sl. No	Project Title	Project type	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
1	Control Panel Design for Sugar Mill Feeder (11kw)	Application	3	3	3	2	3	2	2	2	2	2	2	2	3	2	2
2	Design and Implementation of Vehicle-To-Grid	Application	3	3	3	2	3	2	2	2	2	2	2	2	3	2	3

	(V2g) Communication In Electric Vehicles																
3	PLC Based Automatic Fire Fighting Systems (Enunciator System, Water Sprinkler Based) Using Sematic S7- 1200 And Scada Development	Review /Study	3	3	3	3	2	3	3	2	2	2	2	2	3	2	2
4	Analysis of Equipment Sizing and Designing of 33/11kv Substation	Review /Study	3	3	3	3	2	3	3	2	2	2	2	2	3	2	2
5	Development of Efficient Charging Infrastructure for Electric Vehicle	Review / Study	3	3	3	2	2	3	3	2	2	2	2	2	2	2	3
6	Detailed Project	Application	3	3	3	2	2	3	3	2	2	2	2	2	3	2	2

	Report of 10kw Power System																
7	Rooftop Solar 1mw	Application	3	3	3	3	2	3	3	2	2	2	2	2	3	2	2
8	Design and Optimization of Lithium - Ion Battery Management System For Electric Vehicle	Application	3	3	3	2	3	2	3	2	2	2	2	2	3	2	2
9	Analysis of Switchgear Options for Substation Layout Design	Review / Study	3	3	3	2	2	3	3	2	2	2	2	2	3	2	2
10	Development of Substation Single Line Diagram (Sld)	Application	3	3	3	2	2	3	3	2	2	2	2	2	3	2	2
11	Ground Mount Solar For 1MW	Application	3	3	3	2	3	2	3	2	2	2	2	2	3	2	2
12	100KWP Design of Shed Type	Application	3	3	3	3	2	3	3	2	2	2	2	2	3	2	2

	Rooftop Solar																
13	Design of Tracker 1mw System	Application	3	3	3	3	2	3	3	2	2	2	2	2	3	2	2
14	Control Panel Design for Multi Drive System (Paper Mill).	Application	3	3	3	3	2	3	3	2	2	2	2	2	3	2	2
Average			**3.00**	**3.00**	**3.00**	**2.43**	**2.29**	**2.71**	**2.86**	**2.00**	**2.00**	**2.00**	**2.00**	**2.00**	**2.93**	**2.00**	**2.14**
Percentage relevance of the projects towards POs and PSOs			**100**	**100**	**100**	**80.95**	**76.19**	**90.48**	**95.24**	**66.67**	**66.67**	**66.67**	**66.67**	**66.67**	**97.62**	**66.67**	**71.43**

2.2.4 Initiatives related to industry interaction (10)

Department Level Industry – Institute Interaction Cell: An active department level Industry Institute Interaction Cell (DIII Cell) has been constituted in the department which operates in line with III cell at the institution level. The main functions of the cell are to coordinate Industrial Certification courses and Internships. Further the Cell coordinates guest lectures by industrial experts and arranges industrial visits and coordinates the consultancy activities. Industrial exposure of Faculty is very much helpful to guide students about latest industrial practices.

Functions of DIII Cell:

- To provide Industrial Certification courses as a part of Skill Enhancement courses and Micro credentials
- To provide Internship opportunities to the students
- To organize industrial visits for faculty members and students
- To encourage faculty members to use their expertise in solving the problems faced by the industries, thus creating opportunity for consultancy
- To coordinate/ identify industrial partners for proposing 'Centre for Excellence'.
- To sign a Memorandum of Understanding between the institute and the industry to bring the two sides emotionally and strategically closer
- R&D Laboratories sponsored by industries at the institute

The members of DIII Cell are shown in the Table B.2.2.4a.

Table B.2.2.4a: Department Level Industry Institute Interaction Cell

S.No.	Name of the member	Designation	Position
1.	Dr. K. Hari Krishna	Professor, HoD	Chairman
2.	Mr. P. Venubabu	Assistant Professor	Long Internship, Summer Internship & Project Coordinator
3.	Mr. V. Rajesh	Assistant Professor	SOC Coordinator
4.	Mr. J. Sunil Babu	Assistant Professor	Placement Coordinator
5	Mr. V. Srinivasa Rao	ADE, CAM, RTTPP, Kadapa	Industry expert, BOS Member

Impact: Industry institute interaction is evident from the following:

Summer Internships:

Table B.2.2.4b: Summer Internships CAY 2024-25

Sl. No	Title of the Internship	Industry/Agency offering Internship	Duration	No. of Students Completed the Internship Certification
1.	Salesforce Developer	Salesforce	8 weeks	55
2.	Network Security Associate	Fortinet	10 weeks	52
Total				**107**

Table B.2.2.4c: Summer Internships CAYm1 2023-24

Sl. No	Title of the Internship	Industry/Agency offering Internship	Duration	No. of Students Completed the Internship Certification
1.	Salesforce Developer	Salesforce	8 weeks	55
2.	Cyber Security	CISCO	8 weeks	55
Total				**110**

Table B.2.2.4d: Summer Internships CAYm2 2022-23

Sl. No	Title of the Internship	Industry/Agency offering Internship	Duration	No. of Students Completed the Internship Certification
1.	Salesforce Developer	Salesforce	8 weeks	55
2.	Cyber Security	AICTE	8 weeks	48
Total				**103**

Long Internships

Table B.2.2.4e: Long Internships CAY 2024-25

Sl. No	Title of the Internship	Industry/Agency offering Internship	Duration	No. of Students Pursuing the Internship Certification
1.	Electric Vehicle	SkillDzire	6 Months	51
2.	Solar PV Plant Design			
3.	Industrial Automation			
4.	Auto CAD for EEE			

Table B.2.2.4f: Long Internships CAYm1 2023-24

Sl. No	Title of the Internship	Industry/Agency offering Internship	Duration	No. of Students Completed the Internship Certification
1.	Control Panel Design for Sugar Mill Feeder (11kw)	SkillDzire	6 Months	55
2.	Design and Implementation of Vehicle-to-Grid (V2G) Communication in Electric Vehicles			
3.	PLC based automatic fire fighting systems (Enunciator system, water sprinkler based) using Sematic S7- 1200 and SCADA development			
4.	Analysis of Equipment Sizing and Designing of 33/11KV Substation			
5.	Development of Efficient Charging infrastructure for electric vehicle			
6.	Detailed project report of 10kW Power system			
7.	Rooftop solar 1MW			
8.	Design and optimization of lithium -ion battery management system for electric vehicle			
9.	Analysis of Switchgear Options for Substation Layout Desig12.n			

10.	Development of Substation Single Line Diagram (SLD)			
11.	Ground mount solar for 1MW			
12.	100KWp design of shed type rooftop solar			
13.	Design of Tracker 1MW system			
14.	Control panel Design for Multi Drive System (Paper Mill).			

Skill oriented Courses:

Table B.2.2.4g: Skill oriented Courses CAY 2024-25

Sl. No	Title of the Certification Course	Industry/Agency offering Certification Course	Duration	No. of Students Completed the Certification Course
1	Skill Oriented Course-IV (IOT Fundamentals - Connecting Things)	CISCO	16 weeks	52
2	Skill Oriented Course-V (IT Essentials: PC Hardware and Software)	CISCO	16 weeks	52

Table B.2.2.4h: Skill oriented Courses CAYm1 2023-24

Sl. No	Title of the Certification Course	Industry/Agency offering Certification Course	Duration	No. of Students Completed the Certification Course
1	Skill Oriented Course-I (Programming for Problem Solving Using C)	CODETANTRA	16 weeks	55
2	Skill Oriented Course-II (Python Programming)	CODETANTRA	16 weeks	55
3	Skill Oriented Course-IV (IoT Fundamentals - Connecting Things)	CISCO	16 weeks	55
4	Skill Oriented Course-V (IOT Fundamentals - Big Data & Analytics)	CISCO	16 weeks	55

Table B.2.2.4i: Skill oriented Courses CAYm2 2022-23

Sl. No	Title of the Certification Course	Industry/Agency offering Certification Course	Duration	No. of Students Completed the Certification Course
1	Skill Oriented Course-I (Programming for Problem Solving Using C)	CODETANTRA	16 weeks	54
2	Skill Oriented Course-II (Python Programming)	CODETANTRA	16 weeks	54
3	Skill Oriented Course-IV (IoT Fundamentals - Connecting Things)	CISCO	16 weeks	48

Industrial Consultancy

Table B.2.2.4j: Industrial Consultancy

Academic Year	Industries for which consultancy is provided	Major consultancy problems solved	Amount earned (Rs.)
CAYm1 2023-24	Kallam agro products & oils PvtLtd	Condition Monitoring Using IRT and Power Audit	5,00,000
CAYm2 2022-23	Kallam agro products & oils PvtLtd	Condition Monitoring Using IRT and Power Audit	3,00,000

Guest Lectures by Industry experts:

Table B.2.2.4k: Guest Lectures by Industry Experts CAY: 2024-25

S. No.	Date Month Year	Lecture - Topic	Resource Person with Affiliation	Target Audience	Relevance to POs, PSOs
1	08-06-2024	" Careers in Privacy"	Supreet Panigrahi, Senior Manager, Privacy Control Assurance Standard Charted Bank	All B.Tech Students	PO1, PO2,PO6, PO8,PO10 PSO1

2	27-06-2024	“Data Analytics and AI Application and Learning Models”	Vipul Jhun jhunwala, Senior Manager, Data Analytics and AI, SAP	All B.Tech Students	PO1, PO2, PO3, PSO2
3	05-07-2024	“Evaluation of AI and its Impacts”	Badrinath Nukala, Associate Consultant, KPMG	All B.Tech Students	PO1, PO2, PO3, PSO2
4	13-07-2024	“Data Engineering and Careers”	Aravind Ramachandran, Senior Manager, Tredence	All B.Tech Students	PO1, PO2, PO3, PSO2
5	20-07-2024	“Essential Skills for Industry Success”	Valmik Sangale, General Manager, MAGNA	All B.Tech Students	PO1, PO2 PSO2
6	27-07-2024	“Orientation on Hackathon”	Mr. Sridhar Arumugasamy, Director, Six Phrase	All B.Tech Students	PO1, PO2 PSO2
7	19-02-2023	"Innovate to Win: Idea Generation & Execution Strategies for Smart India Hackathon Success"	Mr. N. Venkata Reddy, CEO, Techteam Solutions	B.Tech 4th Years (2021-225)	PO1, PO2 PSO2
8	22-10-2024	“Process Mining and Career Opportunities”	Poornima Dhall, Lead Partner Manager, Academic Alliance, Cellonis Rishi Puri &Kiran Lakhwani, Lead Business Consultant, Tech Mahindra	All B.Tech Students	PO1, PO2 PSO2

9	29-10-2024	"Kick Start with Cybersecurity"	Umakanth Tripathi, Director, Cyber Security, LTIMINDTREE	All B.Tech Students	PO1, PO2, PO3, PSO2
10	03-12-2024	"Process Mining and Career Opportunities"	Poornima Dhall, Lead Partner Manager, Academic Alliance, Celonis Vishnu Priya Elluru, Associate Director, Deloitte	All B.Tech Students	PO1, PO2, PO3, PO12, PSO1, PSO2
11	12-12-2024	"Building Skills and Sharpening it- How to develop a skill"	Sunil Sonare, Chief Technology Officer, Tech4 logic	All B.Tech Students	PO1, PO2 PSO2
12	21-12-2024	"Career Opportunities in the Cybersecurity Field"	Ummed Meel, Cyber Expert- Cyber Advisory Services	All B.Tech Students	PO1, PO2, PO3, PSO2
13	30-12-2024	"Building your Career in Emerging Technologies"	Gajendra Deshpande, Founder and Managing Director, D Theta Dynamics	All B.Tech Students	PO1, PO2 PSO2
14	08-01-2024	"Shaping Your Career Goals in Advanced Software Engineering"	Parsuram Panigrahi, Senior Director of Engineering, Highradius	All B.Tech Students	PO1, PO2, PO3, PSO2
15	11-01-2025	" Career in Digital Forensics & Incident Response(DFIR)	Lt Col(Dr.) Santosh Khadsare, Chief Technology Officer(DFIR), SYSTOOLS	All B.Tech Students	PO1, PO2 PSO2
16	17-01-2025	"World of Digital Risk in Evolving Digital Era"	Vinit Sinha, Chief Information Security Officer(CISCO)	All B.Tech Students	PO1, PO2 PSO2

17	04-02-2025	"The AI Networking Era: Exciting Career Opportunities"	Arun Kumar, Principal Engineer&AI/ML Leader, JUNIPER	All B.tech Students	PO1, PO2 PSO2
18	05-02-2025	"Ansys Academic Program- Developing the Next Generation of Engineers"	Abhimanyu Singh, Technical Leader – Academic (India and ASEAN), ANSYS	All B.tech Students	PO1, PO2 PSO2

Table B.2.2.4l: Guest Lectures by Industry Experts CAYm1: 2023-24

S. No.	Date Month Year	Lecture - Topic	Resource Person with Affiliation	Target Audience	Relevance to POs, PSOs
1	30-06-2023	"Career Pathways in RPA Technologies and Future Prospects"	1Vishnu Vardhan, RPA Solution Architect, Qualesce 2 Vandana HM, RPA Solution Architect, Qualesce	All B.Tech Students	PO1, PO2, PO3, PSO2
2	13-7-2023	"Harnessing Hackathons: Your Pathway to Top Placements"	Nallamilli Venkata Reddy. M.S(Robotics), M.B.A Founder - CEO, Techybot and Vihanga Electrix, Visakhapatnam	B.Tech 4th Years (2020-24)	PO1, PO2 PSO2
3	27-07-2023	"Career Opportunities in Govt. Sector"	Salil Agarwal, Project Manager, BHEL	All B.Tech Students	PO1, PO2, PO3, PSO2
4	09-08-2023	"Awareness Program on Zscaler Zero Trust Cloud Security Virtual Intership Future Career Opportunities and Scope"	Abhir Naik, Senior Academic Content Developer and Trainer, ZAAP, Zscaler	All B.Tech Students	PO1, PO2 PSO2

5	30-09-2023	"Careers in Cyber Security"	Vikas Goyal, Sr. Director-IT Security, FIS Global	All B.Tech Students	PO1, PO2 PSO2
6	05-10-2023	"Careers in Data Analytics Process Automation"	Dhaval Doshi, Assistant Vice President, JP Morgan Chase&Co	All B.Tech Students	PO1, PO2 PSO2
7	19-10-2023	"Cracking the Code Alteryx Expert Insights and Certification Tips"	Subrath Das, Associate Vice President Analytics, IMO	All B.Tech Students	PO1, PO2, PO3, PSO2
8	28-10-2023	" Careers in Hyper Automation RPA"	Sarthak Das, Intelligent Automation Manager, Pepsico	All B.Tech Students	PO1, PO2 PSO2
9	02-11-2023	"Structural Design Technical Session"	Suvam Chatterjee, Education Consultant, Bently Education	All B.Tech Students	PO1, PO2 PSO2
10	04-11-2023	"Cloud Computing and Introduction to AWS"	Raj Chilakapati, Chief Evangelist, Minfy	All B.Tech Students	PO1, PO2 PSO2
11	11-11-2023	"5G and AI in Cyber Security will Revolutionize the next Decade Job Landscape"	Dr. Debabrata Naik, Head of Cyber Security, Ericsson	All B.Tech Students	PO1, PO2 PSO2
12	14-12-2023	"Campus to Corporate: What the Industry Demands"	Dasari. Sai Prem Charan, Data Engineer, Hexaware Private Ltd	B.Tech 4th Years (2020-24 Batch)	PO1, PO2 PSO2
13	16-12-2023	"Role of Product Technical Knowledge in Shaping Allegiance and Brand Success"	Siddharth Agarwal, Head of Information Development, Newgen Software	All B.Tech Students	PO1, PO2 PSO2
14	18-12-2023	"Cyber Security and the Future"	Usman Ahmed, technical Head, Cyber Security, Thales	All B.Tech Students	PO1, PO2 PSO2

15	21-12-2023	"Corporate Readiness: Bridging Academics and Professional Success"	Namala Harshavardhan, HTC Global Services pvt ltd	B.Tech 4th Years (2020-24)	PO1, PO2 PSO2
16	03-02-2024	"The Career Shift: Preparing for Corporate Excellence"	Abhishek Doijode, Campus Hiring, University relations, Virtusa	B.Tech 4th Years (2020-24)	PO1, PO2 PSO2
17	10-02-2024	“Shaping Your Future in Cloud Technology”	Shubam Nigam, Associate Principal Engineer, Nagarro	All B.Tech Students	PO1, PO2 PSO2
18	15-02-2024	"Unlocking Potential: Transitioning Smoothly to the Corporate Sphere"	N. Vasishta, Data Engineer, Hexaware Private Ltd	B.Tech 4th Years (2019-23)	PO1, PO2 PSO2
19	24-02-2024	“ Career in Technical Writing”	Siddarth Aggarwal, Head of Information Development, NEWGEN	All B.Tech Students	PO1, PO2 PSO2
20	03-04-2024	“Empowering Women in Tech: Inside AWS Data Centers in India”	Amazon Web Services	B.Tech 3rd and 4th year female students	PO1, PO2 PSO2
21	27-04-2024	“Career in Cloud Technologies”	Samir Pradhan, Senior Technical Architect, VIAPLUS	All B.Tech Students	PO1, PO2 PSO2
22	15-05-2024	“Future Proof Your Engineering Career with AI and Generative AI”	Kiran Chandaka, Vice President, State Street	All B.Tech Students	PO1, PO2 PSO2
23	16-05-2024	“Careers in Data Analytics Process Automation”	Dhaval Doshi, Assistant Vice President, JP Morgan Chase&Co	All B.Tech Students	PO1, PO2 PSO2
24	31-05-2024	“Career Opportunities in Robotics Process Automation”	Pramit Mall, Senior Technology Specialist, Tesco	All B.Tech Students	PO1, PO2 PSO2

Table B.2.2.4m: Guest Lectures by Industry Experts CAYm2: 2022-23

S. No.	Date Month Year	Lecture - Topic	Resource Person with Affiliation	Target Audience	Relevance to POs, PSOs
1	22-07-2022	" Celonis Skilling Trends Trajectories and Career Opportunity in Infosys"	1 Ngoc Anh Ngo, Academic Alliance Manager, Celonis 2 Hodson Mc Farland, Associate Client Engagement Manager, Infosys	All B.Tech Students	PO1, PO2 PSO2
2	01-08-2022	"Career Opportunities with Juniper Networks"	Pawan Mellacheruvu, Technical Training Consultant, Juniper Networks	All B.Tech Students	PO1, PO2, PO3, PSO2
3	12-08-2022	"SALESFORCE INITERNSHIP& FUTURE SKILLS PRIME"	Satish Datla Deputy Director NASSCOM – Futureskills prime	B.Tech 4th Years (2019-23)	PO1, PO2 PSO2
4	07-09-2022	"Cyber Security Awareness Programme on Countering Cyber Attacks & Cyber Frauds"	Mr. Vedant Narayan CERT-In, Delhi	B.Tech 2nd Years (2021-25 Batch)	PO1, PO2 PSO2
5	19-02-2023	"Nationwide Placement Success: Tips and Techniques"	Mr. N. Venkata Reddy, CEO, Techteam Solutions	B.Tech 4th Years (2019-23)	PO1, PO2 PSO2
6	23-10-2022	"Winning Tactics for Placement Exams Across India"	Mr. V. Sreenivasa Reddy, Senior Recruitment Manager and Location Head, Vijayawada, Tech Mahindra Ltd.	B.Tech 4th Years (2019-23)	PO1, PO2 PSO2
7	15-07-2022	"Navigating the Path: Classroom Lessons to Corporate Success"	Amit Saha, Deputy Director ExceLR, Bangalore	B.Tech 4th Years (2019-23)	PO1, PO2 PSO2
8	16-03-2023	"The Career Shift: Preparing for Corporate Excellence"	P. Uday Teja, Software Engineer, HCL	B.Tech 3rd Years	PO1, PO2, PO3, PSO2

9	27-05-2023	"Career Opportunities in Synechron"	Ranjana Sagar, Associate Director(Recruitment), Synechron	All B.Tech Students	PO1, PO2 PSO2

2.2.5 Initiatives related to industry internship/summer training (10)

Mandatory Internship, both industry and social, is included in the revised curriculum that aims at making engineering graduates connect with the needs of the industry and society at large. It is mandatory for the students to intern in the industry/field for 10 months during the summer vacation and also in the final semester to acquire the skills required for job. Ten months' mandatory internship program includes an 8 weeks community service project followed by 2 summer internships and a semester long internship and project in the final semester.

Awards and Recognitions

Fig. 2. 2. 5a: Best Performing Institution Award 2023-24 from CISCO Networking Academy in the Annual Cisco India Instructor Conference on 1st February, 2024.

Fig. 2. 2. 5b: Academic Excellence Awards - Salesforce Virtual Internship Program Presented to KHIT, Guntur in the Equality Excellence Category on 4th March, 2024

Fig. 2. 2. 5c: Academic Excellence Awards - Salesforce Virtual Internship Program Presented to KHIT, Guntur in the Internz Academic Triumph Category on 4th March, 2024.

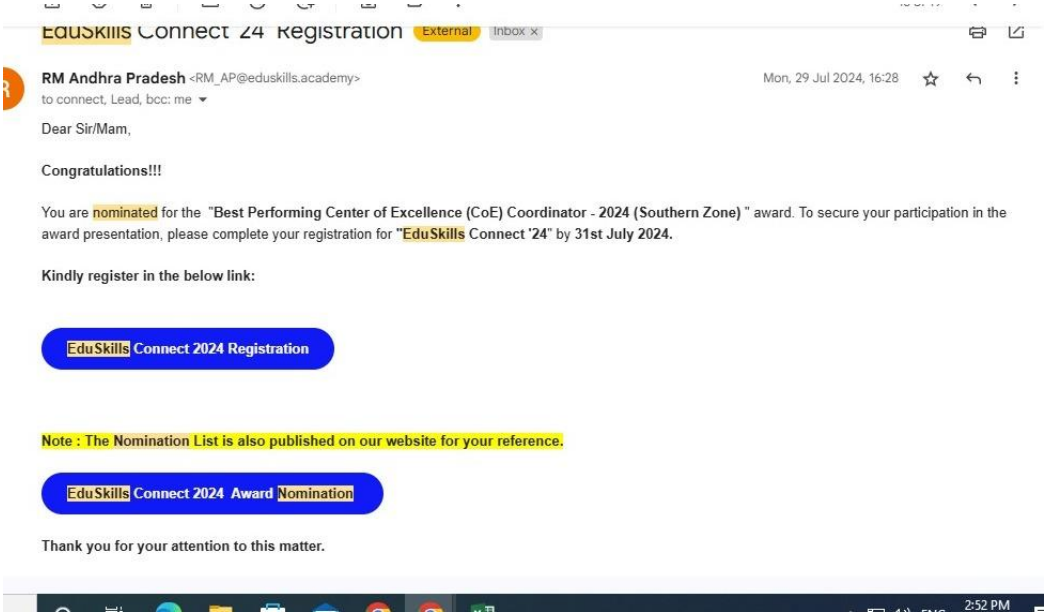


Fig. 2. 2. 5d: "Best Performing Center of Excellence (CoE) Coordinator - 2024 (Southern Zone) " award presented to Dr P L Madhava Rao, SPOC-EduSkills in "EduSkills Connect '24" during 27-29, Sep, 2024.

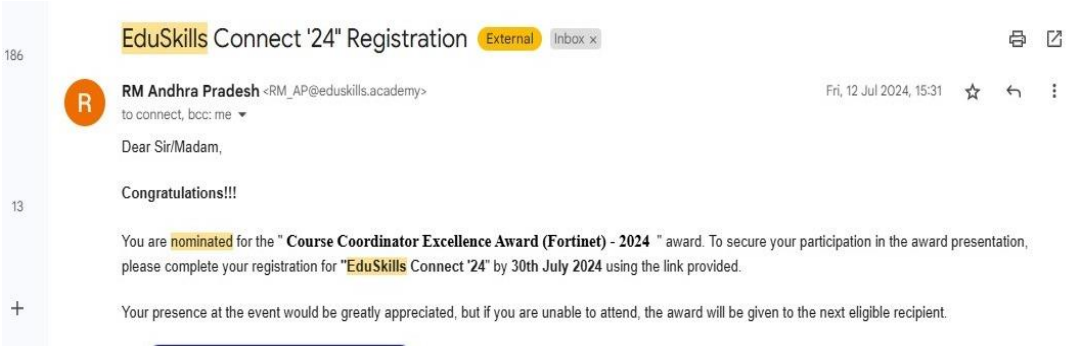


Fig. 2. 2. 5e: Course Coordinator Excellence Award (Fortinet)-2024 presented to Dr P L Madhava Rao, SPOC-EduSkills in the in EduSkills Connect-2024 during 27-29, Sep, 2024.

CRITERION 3	Course Outcomes and Program Outcomes	175

3.1. Establish the correlation between the courses and the Program Outcomes (POs) & Program Specific Outcomes (25)

PSO1	Apply the knowledge of electrical engineering, investigate and solve the complex electrical Engineering problems to meet the specified needs with appropriate considerations for the society.
PSO2	Analyze, design and integrate electrical systems and apply modern tools and techniques to the complex engineering problems and create passion for life-long learning.
PSO3	Acquire skills through hands-on experience and work effectively alone or with a team, demonstrating expertise and entrepreneurial mindset.

Table B.3.1a1: Program level Course – PO Mapping Matrix

S. No	Course Code / Course Name	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
1	C101 / Calculus & Ordinary Differential Equations	3	2	-	-	-	-	-	-	-	-	-	-
2	C102 / Applied Physics	3	2	-	-	-	-	-	-	-	-	-	-
3	C103 /Programming for Problem Solving Using C	3	2	-	-	-	-	-	-	-	-	-	-
4	C104 / Engineering Drawing	2	3	-	-	-	-	-	-	-	-	-	-
5	C105 / English	-	-	-	-	-	1	-	-	-	3	-	-
6	C106 / Soft Skills Course-1	-	-	-	-	-	-	-	2	-	3	-	1
7	C107 / Constitution of India	-	-	-	-	-	2	-	2	1	-	-	1
8	C108 / Applied Physics Lab	3	2	-	3	-	-	-	2	2.5	2	-	-
9	C109 /Programming for Problem Solving Using C Lab	3	2	-	3	-	-	-	2	3	2	-	-
10	C110 / English Lab	-	-	-	-	2	-	-	2	2.5	2.5	-	-

11	C111 / Linear Algebra and Numerical Methods	3	2	-	-	-	-	-	-	-	-	-	-
12	C112 / Applied Chemistry	3	2	-	-	-	-	1	-	-	-	-	-
13	C113 / Electrical Circuit Analysis-I	3	2	-	-	-	-	-	-	-	-	-	-
14	C114 / Basic Electronic Devices & Circuits	3	2.6	-	-	-	-	-	-	-	-	-	-
15	C115 / Python Programming	3	2	-	-	-	-	-	-	-	-	-	-
16	C116 / Soft Skills Course-II	-	-	-	-	-	-	-	2	-	3	-	1
17	C117 / Environmental Science	3	-	-	-	-	2	3	1	-	-	-	-
18	C118 / Applied Chemistry Lab	2	2	-	2	-	-	-	2	2.5	2	-	-
19	C119 / Python Programming Lab	3	2	-	3	-	-	-	2	3	2	-	-
20	C120 / Electrical Engineering Workshop	2	-	-	3	-	-	-	2	3	2	-	-
21	C201 / Digital Electronics	3	2	-	-	-	-	-	-	-	-	-	-
22	C202 / Electrical Circuit Analysis -II	2	3	-	-	-	-	-	-	-	-	-	-
23	C203 / DC Machines & Transformers	2	3	-	-	-	-	-	-	-	-	-	-
24	C204 / Electro Magnetic Fields	2	3	-	-	-	-	-	-	-	-	-	-
25	C205 / Power Systems-I	2	3	-	-	-	-	-	-	-	-	-	-
26	C206 / Electronics Engineering Lab	2	-	-	3	-	-	-	2	3	2	-	-
27	C207 / Electrical Circuits Lab	2	-	-	3	-	-	-	2	3	2	-	-
28	C208 / DC Machines and Transformers Lab	2	-	-	3	-	-	-	2	3	2	-	-
29	C209 / Skill Oriented Course-I (Programming for	2.5	2.5	-	-	3	-	-	-	3	2	-	2.5

	Problem Solving Using C)												
30	C210 / Vector Calculus, Transforms and PDE	3	2	-	-	-	-	-	-	-	-	-	-
31	C211 / Managerial Economics and Financial Analysis	-	-	-	-	-	-	-	-	2	2	3	2
32	C212 / Essence of Indian Traditional Knowledge	-	-	-	-	-	1	2	2	2	-	2	2
33	C213 / Electrical Measurements and Instrumentation	2	3	-	-	-	-	-	-	-	-	-	-
34	C214 / Induction and Synchronous Machines	2	3	-	-	-	-	-	-	-	-	-	-
35	C215 / Control Systems	2	3	-	-	-	-	-	-	-	-	-	-
36	C216 / Induction and Synchronous Machines Lab	2	-	-	3	-	-	-	2	3	2	-	-
37	C217 / Electrical Measurements & Instrumentation Lab	2	-	-	3	-	-	-	2	3	2	-	-
38	C218 / Control Systems Lab	2	-	-	3	-	-	-	2	3	2	-	-
39	C219 / Skill Oriented Course-II (Python Programming)	2.5	2.5	-	-	3	-	-	-	3	2	-	2.5
40	C301 / Professional Ethics & Universal Human Values	-	-	-	-	-	-	2	3	2	-	-	1
41	C302 / Power Electronics	2	3	-	-	-	-	-	-	-	-	-	-
42	C303 / Power Systems-II	2	3	-	-	-	-	-	-	-	-	-	-
43	C304 / Power System Analysis	2	3	-	-	-	-	-	-	-	-	-	-
44	C305 / Professional Elective – I: Utilization of Electrical Energy	2	3	-	-	-	-	-	-	-	-	-	-
45	C306 / Open Elective – I: Waste Water Treatment & Recycling – MOOCS (SWAYAM - NPTEL) Offered by CE	3	-	-	-	-	2	3	-	-	-	-	2

46	C307 / Power Electronics Lab	2	-	-	3	-	-	-	2	3	2	-	-
47	C308 / Electrical Simulation Lab	2	-	-	3	-	-	-	2	3	2	-	-
48	C309 / Community Service Project	3	-	-	-	3	3	3	-	-	3	2	-
49	C310 / Summer Internship-I	3	2	-	-	3	3	3	3	3	3	-	3
50	C311 / Skill Oriented Course-III (Employability Skills)	3	-	-	-	-	2	-	3	-	3	-	3
51	C312 / Linear IC Applications	2	3	-	-	-	-	-	-	-	-	-	-
52	C313 / Microprocessors and Microcontrollers	2.4	3	2	-	-	-	-	-	-	-	-	-
53	C314 / Renewable Energy Systems	2	3	-	-	-	-	-	-	-	-	-	-
54	C315 / Professional Elective – II: Switchgear & Protection	2	3	-	-	-	-	-	-	-	-	-	-
55	C316 / Open Elective – II: Air Pollution and Control – MOOCS (SWAYAM - NPTEL) offered by CE	3	-	-	-	-	2	3	-	-	-	-	2
56	C317 / Linear IC Applications Laboratory	2	-	-	3	-	-	-	2	3	2	-	-
57	C318 / Microprocessors & Microcontrollers Laboratory	2	-	-	3	-	-	-	2	3	2	-	-
58	C319 / Power Systems & Simulation Laboratory	2	-	-	3	-	-	-	2	3	2	-	-
59	C320 / Skill Oriented Course-IV (IoT Fundamentals - Connecting Things)	3	-	3	-	3	-	-	-	3	2	-	2.5
60	C401 / Professional Elective – III: Electric Drives	2	3	-	-	-	-	-	-	-	-	-	-

61	C402 / Professional Elective – IV: FACTS	2	3	-	-	-	-	-	-	-	-	-	-
62	C403 / Professional Elective –V: Economic Operations and Control of Power Systems	2	3	-	-	-	-	-	-	-	-	-	-
63	C404 / Open Elective – III: Digital IC Applications offered by ECE	2	2.6	-	-	-	-	-	-	-	-	-	-
64	C405 / Open Elective – IV: Innovation and Entrepreneurship offered by ME	-	3	-	-	-	-	-	-	-	-	3	-
65	C406 / Management & Organizational Behaviour	-	-	-	-	-	-	-	-	3	2	1	2
66	C407 / Summer Internship-II	3	2	-	-	3	3	3	3	3	3	-	3
67	C408 / Skill Oriented Course-V (IoT Fundamentals - Big Data & Analytics)	2	-	3	-	3	-	-	-	3	2	-	2.5
68	C409 / Project Work, Seminar and Internship in Industry	3	3	3	3	3	3	3	3	3	3	3	3
Average attainment of each PO		**2.40**	**2.58**	**2.75**	**2.94**	**2.89**	**2.18**	**2.60**	**2.15**	**2.78**	**2.27**	**2.33**	**2.12**
Percentage relevance of program curriculum with respect to POs		**80.11**	**86.00**	**91.67**	**98.04**	**96.30**	**72.73**	**86.67**	**71.60**	**92.53**	**75.81**	**77.78**	**70.59**

Table B.3.1a2: Program level Course – PSO Mapping Matrix

S. No	Course Code / Course Name	PSO1	PSO2	PSO3
1	C101 / Calculus & Ordinary Differential Equations	-	-	-
2	C102 / Applied Physics	-	-	-
3	C103 / Programming for Problem Solving Using C	-	-	-
4	C104 / Engineering Drawing	-	-	-
5	C105 / English	-	-	-
6	C106 / Soft Skills Course-1	-	-	-
7	C107 / Constitution of India	-	-	-

8	C108 / Applied Physics Lab	-	-	-
9	C109 / Programming for Problem Solving Using C Lab	-	-	-
10	C110 / English Lab	-	-	-
11	C111 / Linear Algebra and Numerical Methods	-	-	-
12	C112 / Applied Chemistry	-	-	-
13	C113 / Electrical Circuit Analysis-I	3	-	-
14	C114 / Basic Electronic Devices & Circuits	-	-	-
15	C115 / Python Programming	-	-	-
16	C116 / Soft Skills Course-II	-	-	-
17	C117 / Environmental Science	-	-	-
18	C118 / Applied Chemistry Lab	-	-	-
19	C119 / Python Programming Lab	-	-	-
20	C120 / Electrical Engineering Workshop	-	-	3
21	C201 / Digital Electronics	-	-	-
22	C202 / Electrical Circuit Analysis -II	3	-	-
23	C203 / DC Machines & Transformers	3	-	-
24	C204 / Electro Magnetic Fields	3	-	-
25	C205 / Power Systems-I	3	-	-
26	C206 / Electronics Engineering Lab	-	-	3
27	C207 / Electrical Circuits Lab	-	-	3
28	C208 / DC Machines and Transformers Lab	-	-	3
29	C209 / Skill Oriented Course-I (Programming for Problem Solving Using C)	-	-	3
30	C210 / Vector Calculus, Transforms and PDE	-	-	-
31	C211 / Managerial Economics and Financial Analysis	-	-	3
32	C212 / Essence of Indian Traditional Knowledge	-	-	-
33	C213 / Electrical Measurements and Instrumentation	3	-	-
34	C214 / Induction and Synchronous Machines	3	-	-
35	C215 / Control Systems	3	-	-
36	C216 / Induction and Synchronous Machines Lab	-	-	3
37	C217 / Electrical Measurements & Instrumentation Lab	-		3
38	C218 / Control Systems Lab	-	-	3
39	C219 / Skill Oriented Course-II (Python Programming)	-	-	3

40	C301 / Professional Ethics & Universal Human Values	-	-	-
41	C302 / Power Electronics	3	-	-
42	C303 / Power Systems-II	3	-	-
43	C304 / Power System Analysis	3	-	-
44	C305 / Professional Elective – I: Utilization of Electrical Energy	-	3	-
45	C306 / Open Elective – I: Waste Water Treatment & Recycling – MOOCS (SWAYAM - NPTEL) Offered by CE	-	3	-
46	C307 / Power Electronics Lab	-	-	3
47	C308 / Electrical Simulation Lab	-	-	3
48	C309 / Community Service Project	-	-	3
49	C310 / Summer Internship-I	3	-	3
50	C311 / Skill Oriented Course-III (Employability Skills)	-	-	3
51	C312 / Linear IC Applications	-	-	-
52	C313 / Microprocessors and Microcontrollers	-	-	-
53	C314 / Renewable Energy Systems	3	-	-
54	C315 / Professional Elective – II: Switchgear & Protection	-	3	-
55	C316 / Open Elective – II: Air Pollution and Control – MOOCS (SWAYAM - NPTEL) offered by CE	-	3	-
56	C317 / Linear IC Applications Laboratory	-	-	3
57	C318 / Microprocessors & Microcontrollers Laboratory	-	-	3
58	C319 / Power Systems& Simulation Laboratory	-	-	3
59	C320 / Skill Oriented Course-IV (IoT Fundamentals - Connecting Things)	-	-	3
60	C401 / Professional Elective – III: Electric Drives	-	3	-
61	C402 / Professional Elective – IV: FACTS	-	3	-
62	C403 / Professional Elective –V: Economic Operations and Control of Power Systems	-	3	-
63	C404 / Open Elective – III: Digital IC Applications offered by ECE	-	3	-
64	C405 / Open Elective – IV: Innovation and Entrepreneurship offered by ME	-	3	-
65	C406 / Management & Organizational Behaviour	-	-	-
66	C407 / Summer Internship-II	3	-	3
67	C408 / Skill Oriented Course-V (IoT Fundamentals - Big Data & Analytics)	-	-	3
68	C409 / Project Work, Seminar and Internship in Industry	3	3	3
Average attainment of each PSO		**3**	**3**	**3**
Percentage relevance of program curriculum with respect to PSOs		**100**	**100**	**100**

Table B.3.1b1: CO –PO Mapping matrix for Course C202

CO	Statement	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C202.1	Solve three- phase circuits under balanced and unbalanced condition.	2	3	-	-	-	-	-	-	-	-	-	-
C202.2	Calculate the transient response of electrical networks for different types of Excitations	2	3	-	-	-	-	-	-	-	-	-	-
C202.3	Analyze the performance of two port networks.	2	3	-	-	-	-	-	-	-	-	-	-
C202.4	Apply and analyze electrical circuits 2using Fourier analysis.	2	3	-	-	-	-	-	-	-	-	-	-
C202.5	Calculate different harmonics components from the response of an electrical network.	2	3	-	-	-	-	-	-	-	-	-	-
Average		**2**	**3**	-	-	-	-	-	-	-	-	-	-

Table B 3.1b2: CO –PO Mapping matrix for Course C215

CO	Statement	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C215.1	Compute the transfer function of physical systems using different techniques.	2	3	-	-	-	-	-	-	-	-	-	-
C215.2	Analyze time response of second order systems and estimate the stability of LTI systems.	2	3	-	-	-	-	-	-	-	-	-	-
C215.3	Analyze the stability of LTI systems using frequency response methods.	2	3	-	-	-	-	-	-	-	-	-	-

C215.4	Design Lag, Lead, Lag-Lead compensators to improve system Performance from Bode diagrams.	2	3	-	-	-	-	-	-	-	-	-	-
C215.5	Develop state models for physical systems and estimate controllability and observability.	2	3	-	-	-	-	-	-	-	-	-	-
Average		**2**	**3**	-	-	-	-	-	-	-	-	-	-

Table B.3.1b3: CO –PO Mapping Matrix for Course C303

CO	**Statement**	**PO1**	**PO2**	**PO3**	**PO4**	**PO5**	**PO6**	**PO7**	**PO8**	**PO9**	**PO10**	**PO11**	**PO12**
C303.1	Calculate parameters of transmission lines for different circuit configurations.	2	3	-	-	-	-	-	-	-	-	-	-
C303.2	Determine the performance of short, medium and long transmission lines.	2	3	-	-	-	-	-	-	-	-	-	-
C303.3	Analyze the effect of travelling waves on transmission lines.	2	3	-	-	-	-	-	-	-	-	-	-
C303.4	Analyze the various voltage control methods and effect of corona.	2	3	-	-	-	-	-	-	-	-	-	-
C303.5	Calculate sag/tension of transmission lines and performance of line insulators.	2	3	-	-	-	-	-	-	-	-	-	-
Average		**2**	**3**	-	-	-	-	-	-	-	-	-	-

Table B.3.1b4: CO –PO Mapping matrix for Course C315

CO	**Statement**	**PO1**	**PO2**	**PO3**	**PO4**	**PO5**	**PO6**	**PO7**	**PO8**	**PO9**	**PO10**	**PO11**	**PO12**
C315.1	Explain the	2	3	-	-	-	-	-	-	-	-	-	-

	principles of arc interruption for application to high voltage circuit breakers of air, oil, vacuum, SF6 gas type.												
C315.2	Illustrate the working principle and operation of different types of electromagnetic protective relays.	2	3	-	-	-	-	-	-	-	-	-	-
C315.3	Explain the faults and protective schemes for high power generator and transformers.	2	3	-	-	-	-	-	-	-	-	-	-
C315.4	Explain various types of protective schemes used for feeders and bus bar protection.	2	3	-	-	-	-	-	-	-	-	-	-
C315.5	Describe different types of static relays and their applications and different types of over voltages and protective schemes required for insulation co–ordination.	2	3	-	-	-	-	-	-	-	-	-	-
Average		**2**	**3**	-	-	-	-	-	-	-	-	-	-

Table B.3.1b5: CO –PO Mapping matrix for Course C401

CO	Statement	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C401.1	Explain the fundamentals of electric drive and different electric braking methods.	2	3	-	-	-	-	-	-	-	-	-	-

C401.2	Analyze the operation of single-phase converter fed dc motors and four quadrant operations of dc motors using dual converters.	2	3	-	-	-	-	-	-	-	-	-	-
C401.3	Describe the DC-DC converter fed control of dc motors in various quadrants of operation.	2	3	-	-	-	-	-	-	-	-	-	-
C401.4	Explain the concept of speed control of induction motor by using AC voltage controllers and voltage source inverters and differentiate the stator side control and rotor side control.	2	3	-	-	-	-	-	-	-	-	-	-
C401.5	Describe the concepts of speed control of synchronous motor with different methods.	2	3	-	-	-	-	-	-	-	-	-	-
Average		**2**	**3**	-	-	-	-	-	-	-	-	-	-

Table B.3.1b6: CO –PO Mapping matrix for Course C402

CO	Statement	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C402.1	Explain the concepts of facts controller and power flow control in transmission line.	2	3	-	-	-	-	-	-	-	-	-	-
C402.2	Illustrate operation and control of voltage source converter and	2	3	-	-	-	-	-	-	-	-	-	-

	current source converter.												
C402.3	Analyze shunt compensation methods to improve stability and reduce power oscillations in the transmission lines.	2	3	-	-	-	-	-	-	-	-	-	-
C402.4	Explain the different series compensation methods.	2	3	-	-	-	-	-	-	-	-	-	-
C402.5	Analyze operation of Unified Power Flow Controller (UPFC) and Interline power flow controller (IPFC).	2	3	-	-	-	-	-	-	-	-	-	-
Average		**2**	**3**	-	-	-	-	-	-	-	-	-	-

Table B.3.1b7: CO – PSO Mapping Matrix for Course C202

CO	Statement	PSO1	PSO2	PSO3
C202.1	Solve three- phase circuits under balanced and unbalanced condition.	3	-	-
C202.2	Calculate the transient response of electrical networks for different types of Excitations	3	-	-
C202.3	Analyze the performance of two port networks.	3	-	-
C202.4	Apply and analyze electrical circuits using Fourier analysis.	3	-	-
C202.5	Calculate different harmonics components from the response of an electrical network.	3	-	-
Average		**3**	-	-

Table B.3.1b8: CO - PSO Mapping matrix for course C215

CO	Statement	PSO1	PSO2	PSO3
C215.1	Compute the transfer function of physical systems using different techniques.	3	-	-
C215.2	Analyze time response of second order systems and estimate the stability of LTI systems.	3	-	-

C215.3	Analyze the stability of LTI systems using frequency response methods.	3	-	-
C215.4	Design Lag, Lead, Lag-Lead compensators to improve system Performance from Bode diagrams.	3	-	-
C215.5	Develop state models for physical systems and estimate controllability and observability.	3	-	-
Average		**3**	-	-

Table B.3.1b9: CO - PSO Mapping matrix for course C303

CO	Statement	PSO1	PSO2	PSO3
C303.1	Calculate parameters of transmission lines for different circuit configurations.	3	-	-
C303.2	Determine the performance of short, medium and long transmission lines.	3	-	-
C303.3	Analyze the effect of travelling waves on transmission lines.	3	-	-
C303.4	Analyze the various voltage control methods and effect of corona.	3	-	-
C303.5	Calculate sag/tension of transmission lines and performance of line insulators.	3	-	-
Average		**3**	-	-

Table B.3.1b10: CO - PSO Mapping matrix for course C315

CO	Statement	PSO1	PSO2	PSO3
C315.1	Explain the principles of arc interruption for application to high voltage circuit breakers of air, oil, vacuum, SF6 gas type.	-	3	-
C315.2	Illustrate the working principle and operation of different types of electromagnetic protective relays.	-	3	-
C315.3	Explain the faults and protective schemes for high power generator and transformers.	-	3	-
C315.4	Explain various types of protective schemes used for feeders and bus bar protection.	-	3	-
C315.5	Describe different types of static relays and their applications and different types of over voltages and protective schemes required for insulation co–ordination.	-	3	-
Average		-	**3**	-

Table B.3.1b11: CO - PSO Mapping matrix for course C401

CO	Statement	PSO1	PSO2	PSO3

C401.1	Explain the fundamentals of electric drive and different electric braking methods.	-	3	-
C401.2	Analyze the operation of single-phase converter fed dc motors and four quadrant operations of dc motors using dual converters.	-	3	-
C401.3	Describe the DC-DC converter fed control of dc motors in various quadrants of operation.	-	3	-
C401.4	Explain the concept of speed control of induction motor by using AC voltage controllers and voltage source inverters and differentiate the stator side control and rotor side control.	-	3	-
C401.5	Describe the concepts of speed control of synchronous motor with different methods.	-	3	-
Average		-	**3**	-

Table B.3.1b12: CO - PSO Mapping matrix for course C402

CO	Statement	PSO1	PSO2	PSO3
C402.1	Explain the concepts of facts controller and power flow control in transmission line.	-	3	-
C402.2	Illustrate operation and control of voltage source converter and current source converter.	-	3	-
C402.3	Analyze shunt compensation methods to improve stability and reduce power oscillations in the transmission lines.	-	3	-
C402.4	Explain the different series compensation methods.	-	3	-
C402.5	Analyze operation of Unified Power Flow Controller (UPFC) and Interline power flow controller (IPFC).	-	3	-
Average		-	**3**	-

3.2 Attainment of Course Outcomes (75)

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

Table B.3.2.1a: Assessment tools and Assessment pattern

S. No	Type of component	Assessment Tool	Frequency	Assessment Pattern

1	Internal Assessment -Theory Courses	Descriptive examinations	Twice in a semester	For theory courses the distribution shall be 30 marks for Internal Evaluation and 70 marks for the End–Examinations. For theory courses, during a semester, there shall be two internal examinations. Each internal examination consists of one objective paper, one descriptive paper and one assignment. The descriptive paper shall be for 25 marks with a total duration of 1 hour 30 minutes. The descriptive paper evaluation is scaled down to 15 marks. The objective paper is set with 20 multiple choice questions for a total of 10 marks with a total duration of 20 minutes. The descriptive paper shall contain 3 full questions; the student has to answer all questions. While the first internal examination shall be conducted on 50% of the syllabus, the second internal examination shall be conducted on the remaining 50% of the syllabus. Five marks are allocated for assignments (as specified by the course teacher concerned). The assignment test is a time constrained Descriptive open book examination conducted for each unit of instruction for 10 marks. The assignment test contains 2 questions per each unit, conducted for 90 (45+45) minutes, and all questions should be answered. The students are allowed to refer to either class notes, textbooks, or other approved material while answering questions. As the syllabus is framed for 5 units, the 1st three assignment tests are conducted in 1, 2 & half of unit - 3 and 2nd three assignment
		Objective examinations	Twice in a semester	
		Assignments	Continuous in a semester	

				tests are conducted in the remaining half of 3 units, 4&5 units of each course in a semester. The first three assignments assessment should be submitted before the conduct of the first internal examination, and the second three assignments assessment should be submitted before the conduct of the second internal examination. The assessment for the two and half units (50% of the syllabus) for 25 marks will be scaled down to 5 Marks.
2	External assessment-Theory Courses	End semester examination	Once in a semester	The semester end examinations will be conducted for 70 marks consisting of five questions carrying 14 marks each. Each of these questions is from one unit and may contain sub-questions. For each question there will be an "either" of choice, which means that there will be choice between questions from each unit and the student should answer either of the two questions. Grades are allotted as per academic rules and regulations depending upon the marks achieved by the student in the course for 100 marks.
3	Laboratory courses (Practical course)	Day to day evaluation	Continuous	For practical courses there shall be two internal examinations during the semester and continuous internal evaluation for 30 internal marks and 70 end examination marks. The internal 30 marks shall be awarded as follows: day to day work – 10 marks, Record-5 marks and the remaining 15 marks to be awarded by conducting an internal laboratory test. There shall be two internal lab tests in a Semester and the Marks for 15 can be calculated with 80% weightage for better of the two performances and 20% weightage for other and these are to be added
		Internal examinations	Twice in a semester	
		External examinations	Once in a semester	

				to the marks obtained in day-to-day work and record. The end examination shall be conducted by the teacher concerned and external examiner.
4	Design and/or drawing	Day to day evaluation	Continuous	For the Course having design and/or drawing, (such as Engineering Graphics, Engineering drawing, Machine Drawing) and estimation, the distribution shall be 30 marks for internal evaluation (15 marks for day — to — day work, and 15 marks for internal tests) and 70 marks for end examination. There shall be two internal tests in a semester and the Marks for 15 can be calculated with 80% weight age for better of the two tests and 20% weight age for other test and these are to be added to the marks obtained in day-to-day work.
		Internal examinations	Twice in a semester	
		External examinations	Once in a semester	
5	Mandatory Course (MC):	Internal examinations	Twice in a semester	There shall be an external examination for 70 marks and it shall be conducted by the college internally. Two internal examinations shall be conducted for 30 marks and a student has to secure at least 40% of the marks for passing the course. There is no objective type exam for mandatory courses. No marks or letter grade is given for all mandatory non-credit courses, but only Completed. (CP)/Not-
		External examinations	Once in a semester	
6	Skill Oriented Course	External examinations	Once in a semester	The job-oriented skill courses may be registered at the college or at any accredited external agency. (i) SOC at any External Accredited Agency: A student shall submit a record/report on the on the skills learned and list of skill-oriented tasks performed during the course. The certificate from the agency shall be included in the report. The course will be evaluated at the end of the

				semester for 100 marks (Certificate: 60 marks and Objective viva-voce: 40 marks). There are no internal marks for the job-oriented skill course if the registration is with external agency. (ii)SOC at College Level The Evaluation is on par with laboratory.
7	Community Service Project	Internal project review Twice during Project		A student shall submit a record/report on the on the Community Service Project. If the student completes Community service project, a certificate from the local secretariat shall be included in the report. The CSP will be evaluated for 100 marks (Project Log: 20 marks, Project implementation: 30 marks, Project Work: 25marks Presentation and VIVA-VOCE: 25 marks). Project and project implementation will be evaluated through two internal project reviews, final project report is evaluated and VIVA-VOCE is conducted at the end in the presents of senior faculty members, mentors and HOD.
		External Examination (VIVA-VOCE)		
8	Skill Oriented Course - Employability Skills	Internal examinations	Twice in a semester	For Employability Skills (Skill Oriented Course) during a semester, there shall be two internal examinations. The internal examination is objective type and is for 30 marks with a total duration of 30 minutes. The objective paper is set with 30 multiple choice questions for a total of 30 marks. The first internal examination shall be conducted on 2 units of the syllabus; the second internal examination shall be conducted on the remaining 3 units of the syllabus. Internal Marks are calculated with 80% weightage for better of the two internal examinations and 20%weightage for other internal.
		External examinations	Once in a semester	

				The end examination shall be conducted by the teacher concerned and external examiner.
9	Summer Internship-I	External Examination (VIVA-VOCE)	Once in a semester	Students shall pursue this internship during summer vacation between 4th and 5th Semester as per course structure. The minimum duration of this course shall be at least for 6 weeks. The student shall register for the internship as per course structure after commencement of academic year. A supervisor/mentor/advisor has to be allotted to guide the students for taking up the summer internship. After successful completion, students shall submit a summer internship technical report to the concerned department and appear for an oral presentation before the departmental committee consists of an external examiner; Head of the Department, supervisor of the internship and a senior faculty member of the department. A certificate from industry/skill development centre shall be included in the report. The report and the oral presentation shall carry 60% and 40% weightages respectively. It shall be evaluated for 100 external marks at the end of the semester. There shall be no internal marks for Summer Internship. A student shall secure minimum 40% of marks for successful completion.

10	Summer Internship-II	External Examination (VIVA-VOCE)	Once in a semester	Students shall pursue this internship during summer vacation between 6th and 7th Semester as per course structure. The minimum duration of this course shall be at least for 8 weeks. The student shall register for the internship as per course structure after commencement of academic year. A supervisor/mentor/advisor has to be allotted to guide the students for taking up the summer internship. After successful completion, students shall submit a summer internship technical report to the concerned department and appear for an oral presentation before the departmental committee consists of an external examiner; Head of the Department, supervisor of the internship and a senior faculty member of the department. A certificate from industry/skill development centre shall be included in the report. The report and the oral presentation shall carry 60% and 40% weightages respectively. It shall be evaluated for 100 external marks at the end of the semester. There shall be no internal marks for Summer Internship. A student shall secure minimum 40% of marks for successful completion.
11	Project Work, Seminar and	Internal project review Twice a semester		A total of 200 marks for the project work, Seminar and Internship in industry is divided into 50 marks for Internal Evaluation and 150 marks for the End Semester Examination. The End Semester Examination (VIVA-VOCE) shall be conducted

	Internship in Industry	External Examination (VIVA-VOCE)	by the committee. The committee consists of an external examiner, Head of the Department and Supervisor of the Project. The evaluation of project work shall be conducted at the end of the IV year. The Internal Evaluation shall be on the basis of two reviews given by each student on the topic of his project and evaluated by an internal committee.

3.2.2 Record the attainment of Course Outcomes of all courses with respect to set attainment levels (65)

A. Attainment of COs Direct	The PAQIC collects the assessment data and conducts meetings with the course coordinators and proposes the targets. The set targets and set attainment levels of the program are approved by the DAB.

Attainment of COs: Target & Attainment Levels (Direct)

I. **The course outcomes are evaluated during Internal and External assessments as per the following:**

Regulation	Internal Assessment – Set Target	External Assessment – Set Target
R20	50 % Marks	40 % Marks

II. **The attainment levels are as per the following**

S. No	Attainment Level	% of students attaining the Set-Target
1.	0	<40% of students scoring less than set target
2.	1	40 or more % of students scoring more than set target
3.	2	60 or more % of students scoring more than set target
4.	3	80 or more % of students scoring more than set target

III. **Theory Courses: Attainment of COs – Procedure:**

For R20 regulations: Weightages for different internal assessment tools are based on PAQIC recommendations and DAB approval.

Attainment of COs - Calculation:

Theory Courses:

Internal attainment level = (50% of Descriptive + 25% of Objective + 25% of Assignment) attainment levels.

External attainment level = 100% of Semester end examination

IV. **Laboratory Courses:**

Evaluation of Attainment of COs

Attainment of CO= 20% of attainment level of CIE + 80% of attainment of SEE

V. Project Work:

Internal attainment level = (50% of Review 1 + 50% of Review 2) attainment levels.

External attainment level = 100% of Viva-Voce examination

Attainment Course outcomes of all courses are assessed through above-mentioned assessment tools and with respect to set targets and attainment levels.

VI. Example Scenario:

KALLAM HARANADHAREDDY INSTITUTE OF TECHNOLOGY
(AUTONOMOUS)
NH-16, Chowdavaram, Guntur - 522019
Department of EEE

Subject Code	C215
Subject Name	CONTROL SYSTEMS
REGULATION	R20
Year & Sem	II/II
Academic Year	2021-22
Name of Faculty	Dr. L. SHANMUKHA RAO

		INTERNAL EVALUATION																					
Sl. No	Roll No	DESCRIPTIVE 1				D1Q3+D2Q1	DESCRIPTIVE 2				Quiz 1	(Q1+Q2)/2	Quiz 2	Assgn 1	(Assgn 1+Assgn 2)/2	Assign 2	I internal	II internal	Final Internal marks (30)
		Q1	Q2	Q3	Total (25)		Q1	Q2	Q3	Total (25)							Total (30)	Total (30)	
		10	10	5		10	5	10	10		20	20	20	5	5	5			
1	208X1A0201	10	10	3	23	8	5	8	10	23	5	9	13	5	5	5	22	26	26
2	208X1A0202	4	4	1.5	10	7	5	5	5	15	6	9.5	13	5	5	5	14	21	20
3	208X1A0203	10	10	3	23	7	4	10	8	22	11	12	13	5	5	5	25	25	25
4	208X1A0204	8.5	5	0	14	4	4	5	9	18	10	12.5	15	5	5	5	19	24	23
5	208X1A0205	5	1	3	9	8	5	3	4	12	9	11.5	14	5	5	5	15	20	19
6	208X1A0206	10	5	4	19	7	3	8	10	21	7	10.5	14	5	5	5	20	25	24
7	208X1A0207	7	5	5	17	9	4	5	8	17	6	9.5	13	5	5	5	19	22	22
8	208X1A0208	7	5	4	16	8	4	6	9	19	3	8	13	5	5	5	17	23	22
9	208X1A0209	10	10	5	25	10	5	5	10	20	8	13.5	19	5	5	5	24	27	27
10	208X1A0210	5	2	0	7	4	4	2	3	9	5	9.5	14	5	5	5	12	18	17
No. of students attempted		54	54			55	54	54			54	55	54	55	55	55			
No. of students who got more than 50% marks		51	36			47	41	50			6	36	54	55	55	55			
% of students who got more than 50% marks		95	67			86	76	93			12	66	100	100	100	100			
Mapping with course outcome		C215.1	C215.2			C215.3	C215.4	C215.5			C215.1-2	C215.3	C215.4-5	C215.1-2	C215.3	C215.4-5			
Attainment Level		3	2			3	2	3			0	2	3	3	3	3			

Fig 3.2.2a: OBE – Assessment Matrix – Internal Examinations

		SEMESTER END EVALUATION								
Sl. No	Roll No	Q1	Q2	Q3	Q4	Q5	Final Marks	Final Marks (100)	LETTER GRADE	GRADE POINT (O=10,A=9,B=8,C=7,D=6,E=5,F=0)
		14	14	14	14	14	70			
1	208X1A0201	10	5	7	9	8	39	65	C	7
2	208X1A0202	7	9	8	4		28	48	E	5
3	208X1A0203	7	8	5	8	4	32	57	D	6
4	208X1A0204	7	4	8	6	8	33	56	D	6
5	208X1A0205	9	9	8	8	8	42	61	C	7
6	208X1A0206	4	7	5	3	7	26	50	D	6
7	208X1A0207	8	8	8	6	6	36	58	D	6
8	208X1A0208	6	0	5	8	7	26	48	E	5
9	208X1A0209	9	11	8	5	3	36	63	C	7
10	208X1A0210	8	8	3	6	4	29	46	E	5

No. of students attempted	54	53	53	53	53
No. of students who got more than 40% marks	46	36	34	39	43
% of students who got more than 40% marks	86	68	65	74	82
Mapping with course outcome	C215.1	C215.2	C215.3	C215.4	C215.5
Attainment level	3	2	2	2	3

Fig 3.2.2b: OBE – Assessment Matrix – External Examinations

Attainment of COs for the Course C215

CO	Attainment level in					Direct attainment level
	Descriptive Exam	Quiz	Assignment	Internal Assessment	External Assessment	
C215.1	3	0	3	2.25	3	2.85
C215.2	2	0	3	1.75	2	1.95
C215.3	3	2	3	2.75	2	2.15
C215.4	2	3	3	2.5	2	2.1
C215.5	3	3	3	3	3	3
				2.45	**2.4**	**2.41**

Fig 3.2.2c: OBE – Attainment of COs (Direct)

B. Attainments of COs of all the Courses through internal and external examinations (Direct).	The process is repeated for all the courses in the curriculum. The details of COs of all courses through internal and external examinations (Direct) is presented in Table B: 3.2.2a.

Table B.3.2.2a: Attainments of course outcomes (COs) for all Courses through internal and external examinations (Direct)

Course Code	Course	CO1	CO2	CO3	CO4	CO5	CO6	CO7	AVG
C101	Calculus & Ordinary Differential Equations	2.95	2.15	2.15	2.2	1.4	-	-	2.17
C102	Applied Physics	0.55	2.15	1.3	2.2	2.2	-	-	1.68
C103	Programming for Problem Solving Using C	2.2	2.2	2.2	2.2	2.2	-	-	2.2
C104	Engineering Drawing	2.1	2.2	3	2.2	2.1	-	-	2.32
C105	English	3	3	3	3	3	-	-	3
C106	Soft Skills Course-I	2.6	2.6	2.8	2.8		-	-	2.7
C107	Constitution of India	2.6	3	3	3	3	-	-	2.92
C108	Applied Physics Lab	3	3	3	3	-	-	-	3
C109	Programming for Problem Solving Using C Lab	3	3	3	3	-	-	-	3
C110	English Lab	3	3	3	3	-	-	-	3
C111	Linear Algebra and Numerical Methods	3	0.4	2.2	3	1.3	-	-	1.98
C112	Applied Chemistry	2.1	1.3	1.3	1.3	1.4	-	-	1.48
C113	Electrical Circuit Analysis-I	2.2	2	0.4	1.2	1.2	-	-	1.4
C114	Basic Electronic Devices & Circuits	2.9	2.1	1.2	2.2	1.4	-	-	1.96
C115	Python Programming	2.2	0.5	0.6	0.6	1.4	-	-	1.06
C116	Soft Skills Course-II	3	3	3	3	-	-	-	3
C117	Environmental Science	2.8	3	3	3	3	-	-	2.96
C118	Applied Chemistry Lab	3	3	3	3	-	-	-	3
C119	Python Programming Lab	3	3	3	3	-	-	-	3
C120	Electrical Engineering Workshop	3	3	3	3	-	-	-	3
C201	Digital Electronics	2.15	2.15	2.2	0.6	2.2	-	-	1.86
C202	Electrical Circuit Analysis -II	1.25	1.95	1.2	2.15	2.15	-	-	1.74
C203	DC Machines & Transformers	2.7	2.8	2.2	2.95	2.85	-	-	2.7
C204	Electro Magnetic	0.3	1.9	2.2	2.1	2.1	-	-	1.72

	Fields								
C205	Power Systems-I	3	3	2.9	2.85	2.85	-	-	2.92
C206	Electronics Engineering Lab	3	3	3	3	-	-	-	3
C207	Electrical Circuits Lab	3	3	3	3	-	-	-	3
C208	DC Machines and Transformers Lab	3	3	3	3	-	-	-	3
C209	Skill Oriented Course-I (Programming for problem solving using C)	3	3	3	3	3	-	-	3
C210	Vector Calculus, Transforms and PDE	1.3	0.5	1.4	1.35	0.55	-	-	1.02
C211	Managerial Economics and Financial Analysis	2.9	2.8	3	2.9	1.9	-	-	2.7
C212	Essence of Indian Traditional Knowledge	3	3	3	3	3	-	-	3
C213	Electrical Measurements and Instrumentation	3	2.1	2.2	2.2	2.9	-	-	2.48
C214	Induction and Synchronous Machines	2.85	2.75	2.05	2.2	2.2	-	-	2.41
C215	Control Systems	2.85	1.95	2.15	2.1	3	-	-	2.41
C216	Induction and Synchronous Machines Lab	3	3	3	3	-	-	-	3
C217	Electrical Measurements & Instrumentation Lab	3	3	3	3	-	-	-	3
C218	Control Systems Lab	3	3	3	3	-	-	-	3
C219	Skill Oriented Course-II (Python Programming)	3	3	3	3	3	-	-	3
C301	Professional Ethics & Universal Human Values	3	3	3	3	3	-	-	3
C302	Power Electronics	2.95	2.15	2.1	2.75	2.85	-	-	2.56
C303	Power Systems-II	0.4	1	1.35	2.2	2.2	-	-	1.43
C304	Power System Analysis	2.2	0.6	0.4	1.3	2	-	-	1.3
C305	Professional Elective – I: Utilization of	3	2.9	2.9	3	2.82	-	-	2.92

	Electrical Energy								
C306	Open Elective – I: Waste Water Treatment & Recycling - MOOCS(SWAYAM - NPTEL) offered by CE	3	3	3	3	3	-	-	3
C307	Power Electronics Lab	3	3	3	3	-	-	-	3
C308	Electrical Simulation Lab	3	3	3	3	-	-	-	3
C309	Community Service Project	3	3	3	3	3	-	-	3
C310	Summer Internship-I	3	3	3	3	3	3	-	3
C311	Skill Oriented Course-III (Employability Skills)	3	3	3	3	3	-	-	3
C312	Linear IC Applications	2	1.2	2.9	2.2	3	-	-	2.26
C313	Microprocessors and Microcontrollers	3	3	2.2	2.1	2.1	-	-	2.48
C314	Renewable Energy Systems	2.9	2.9	3	3	3	-	-	2.96
C315	Professional Elective – II: Switchgear & Protection	3	2.8	3	3	3	-	-	2.96
C316	Open Elective – II: Air Pollution and Control - MOOCS(SWAYAM - NPTEL) offered by CE	3	3	3	3	3	-	-	3
C317	Linear IC Applications Laboratory	3	3	3	3	-	-	-	3
C318	Microprocessors & Microcontrollers Laboratory	3	3	3	3	-	-	-	3
C319	Power Systems& Simulation Laboratory	3	3	3	3	-	-	-	3
C320	Skill Oriented Course-IV (IOT Fundamentals - Connecting Things)	3	3	3	3	3	-	-	3
C401	Professional	3	3	2.1	2.1	2.9	-	-	2.62

	Elective – III: Electric Drives								
C402	Professional Elective – IV: FACTS	3	2.9	3	3	3	-	-	2.98
C403	Professional Elective –V: Economic Operations and Control of Power Systems	2.75	1.85	0.5	3	3	-	-	2.22
C404	Open Elective – III: Digital IC Applications offered by ECE	1.15	1.15	2.05	1.95	1.15	-	-	1.49
C405	Open Elective – IV: Innovation and Entrepreneurship offered by ME	3	3	2.1	2.1	2.9	-	-	2.62
C406	Management & Organizational Behaviour	3	3	3	2.95	2.95	-	-	2.98
C407	Summer Internship-II	3	3	3	3	3	3	-	3
C408	Skill Oriented Course-V (IOT Fundamentals - Big Data & Analytics)	3	3	3	3	3	-	-	3
C409	Project Work, Seminar and Internship in Industry	3	3	3	3	3	3	3	3

C. Attainment of COs Indirect	The indirect CO attainments for each course are assessed through course exit survey. A survey has been conducted at the end of every semester through online mode. All the students will participate in surveys and give rating (0: disagree, 1: fairly agree, 2: agree and 3: strongly agree) to course outcomes that how much they really achieved during course work.

Course Exit Survey: A Course survey has been conducted at the end of every semester through online mode. All the students will participate in surveys and give rating (0: disagree, 1: fairly agree, 2: agree and 3: strongly agree) to course outcomes that how much they really achieved during course work.

S. No	Type of component	Frequency	Assessment criteria
1.	Course Exit Survey	Once at the end of semester	Collect information from the students in the prescribed format to assess the attainment of course outcomes at the end of the semester.

The Course exit survey is conducted using the reference shown below:

KALLAM HARANADHAREDDY INSTITUTE OF TECHNOLOGY
(Autonomous)
DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING
COURSE EXIT SURVEY

Please take time to complete this survey in the class. Your thoughtful objective responses to each question are highly valued part of the teaching and learning improvement process.

Academic Year: 2021-22 **Class: B.Tech. II YEAR II SEM**

Name: O. HARI PRIYA **Roll No:208X1A0228** **Section: A**

The following survey is an indirect assessment of your technical abilities with respect to course mentioned above. Please read the following carefully and based on self-assessment of your own capabilities, give the appropriate level from the following:

II Year – II SEMESTER

Disagree	Fairly Agree	Agree	Strongly Agree
0	1	2	3

S. No of CO	Course Name: Control Systems (C215) Year of Study: 2021-22	Attainment Level
I have ability to:		
C215.1	Compute the transfer function of physical systems using different techniques.	3
C215.2	Analyze time response of second order systems and estimate the stability of LTI systems.	3
C215.3	Analyze the stability of LTI systems using frequency response methods.	3
C215.4	Design Lag, Lead, Lag-Lead compensators to improve system Performance from Bode diagrams.	3
C215.5	Develop state models for physical systems and estimate controllability and observability.	3

Example scenario: the information will be collected from all students. The indirect attainment of CO for a course is the average of the responses for each course.

CO C215	Indirect Attainment of COs
C215.1	2.7
C215.2	2.4
C215.3	2.5
C215.4	2.6
C215.5	2.5
Average	**2.54**

D. Attainment of COs of all the Courses through Course Exit Survey	This process is repeated for all the courses in the curriculum. The details of attainment of CO - Indirect are as follows

Table B.3.2.2b - Attainment of COs for all the Courses through course exit survey (Indirect)

Course Code	Course	CO1	CO2	CO3	CO4	CO5	CO6	CO7	AVG
C101	Calculus & Ordinary Differential Equations	3	2.86	2.86	2.18	2.18	-	-	2.62
C102	Applied Physics	2.93	2.82	2.86	2.16	2.09	-	-	2.57
C103	Programming for Problem Solving Using C	2.91	2.68	2.86	2.2	2.18	-	-	2.57
C104	Engineering Drawing	2.84	2.68	2.82	2.14	2.2	-	-	2.54
C105	English	2.89	2.82	2.75	2.3	2.16	-	-	2.58
C106	Soft Skills Course-1	2.93	2.84	2.64	2.25	-	-	-	2.66
C107	Constitution of India	2.91	2.82	2.75	2.27	2.18	-	-	2.59
C108	Applied Physics Lab	2.95	2.80	2.73	2.34	-	-	-	2.71
C109	Programming for Problem Solving Using C Lab	2.84	2.80	2.73	2.23	-	-	-	2.65
C110	English Lab	2.95	2.95	2.95	2.95	-	-	-	2.95
C111	Linear Algebra and Numerical Methods	3	2.81	2.76	2.1	2.26	-	-	2.59
C112	Applied Chemistry	2.95	2.67	2.86	2.14	2.24	-	-	2.57
C113	Electrical Circuit Analysis-I	2.98	2.74	2.81	2.1	2.31	-	-	2.59

C114	Basic Electronic Devices & Circuits	3	2.71	2.86	2.12	2.24	-	-	2.59
C115	Python Programming	2.98	2.69	2.88	2.17	2.36	-	-	2.62
C116	Soft Skills Course-II	2.98	2.71	2.69	2.17	-	-	-	2.64
C117	Environmental Science	2.98	2.64	2.81	2.14	2.33	-	-	2.58
C118	Applied Chemistry Lab	2.93	2.74	2.81	2.19	-	-	-	2.67
C119	Python Programming Lab	2.90	2.67	2.76	2.21	-	-	-	2.64
C120	Electrical Engineering Workshop	2.98	2.67	2.81	2.26	-	-	-	2.68
C201	Digital Electronics	2.8	2.5	2.3	2.3	2.4	-	-	2.46
C202	Electrical Circuit Analysis -II	2.7	2.6	2.3	2.5	2.3	-	-	2.48
C203	DC Machines & Transformers	2.6	2.3	2.6	2.3	2.5	-	-	2.46
C204	Electro Magnetic Fields	2.4	2.5	2.3	2.3	2.4	-	-	2.38
C205	Power Systems-I	2.8	2.8	2.7	2.4	2.6	-	-	2.66
C206	Electronics Engineering Lab	2.6	2.7	2.7	2.7	-	-	-	2.67
C207	Electrical Circuits Lab	2.8	2.7	2.6	2.6	-	-	-	2.67
C208	DC Machines and Transformers Lab	2.7	2.3	2.7	2.7	-	-	-	2.6
C209	Skill Oriented Course-I (Programming for problem solving using C)	2.7	2.4	2.6	2.8	2.4	-	-	2.58
C210	Vector Calculus, Transforms and PDE	2.5	2.3	2.6	2.3	2.6	-	-	2.46
C211	Managerial Economics and Financial Analysis	2.7	2.4	2.5	2.4	2.5	-	-	2.5
C212	Essence of Indian Traditional Knowledge	2.6	2.5	2.5	2.4	2.5	-	-	2.5
C213	Electrical Measurements and Instrumentation	2.6	2.3	2.4	2.6	2.5	-	-	2.48
C214	Induction and Synchronous Machines	2.6	2.3	2.4	2.4	2.6	-	-	2.46
C215	Control Systems	2.7	2.4	2.4	2.6	2.5	-	-	2.52

C216	Induction and Synchronous Machines Lab	2.6	2.3	2.4	2.5	-	-	-	2.45
C217	Electrical Measurements & Instrumentation Lab	2.5	2.4	2.5	2.3	-	-	-	2.43
C218	Control Systems Lab	2.6	2.5	2.6	2.6	-	-	-	2.58
C219	Skill Oriented Course-II (Python Programming)	2.3	2.3	2.6	2.5	2.6	-	-	2.46
C301	Professional Ethics & Universal Human Values	2.5	2.3	2.5	2.3	2.4	-	-	2.4
C302	Power Electronics	2.6	2.4	2.4	2.6	2.7	-	-	2.54
C303	Power Systems-II	2.6	2.2	2.4	2.3	2.6	-	-	2.42
C304	Power System Analysis	2.5	2.4	2.5	2.4	2.7	-	-	2.5
C305	Professional Elective – I: Utilization of Electrical Energy	2.7	2.6	2.4	2.5	2.6	-	-	2.56
C306	Open Elective – I: Waste Water Treatment & Recycling - MOOCS(SWAYAM - NPTEL) offered by CE	2.5	2.4	2.4	2.3	2.5	-	-	2.42
C307	Power Electronics Lab	2.6	2.5	2.5	2.4	-	-	-	2.50
C308	Electrical Simulation Lab	2.7	2.6	2.5	2.4	-	-	-	2.58
C309	Community Service Project	2.7	2.6	2.4	2.3	2.5	-	-	2.5
C310	Summer Internship-I	2.5	2.4	2.4	2.3	2.5	2.3	-	2.4
C311	Skill Oriented Course-III (Employability Skills)	2.3	2.3	2.6	2.5	2.6	-	-	2.46
C312	Linear IC Applications	2.4	2.3	2.3	2.2	2.1	-	-	2.26
C313	Microprocessors and Microcontrollers	2.4	2.3	2.3	2.3	2.2	-	-	2.3
C314	Renewable Energy Systems	2.5	2.5	2.4	2.4	2.5	-	-	2.46
C315	Professional Elective – II:	2.4	2.3	2.2	2.3	2.2	-	-	2.28

	Switchgear & Protection								
C316	Open Elective – II: Air Pollution and Control - MOOCS(SWAYAM - NPTEL) offered by CE	2.3	2.4	2.3	2.2	2.3	-	-	2.3
C317	Linear IC Applications Laboratory	2.3	2.2	2.3	2.3	-	-	-	2.27
C318	Microprocessors & Microcontrollers Laboratory	2.3	2.4	2.3	2.4	-	-	-	2.35
C319	Power Systems& Simulation Laboratory	2.4	2.3	2.3	2.3	-	-	-	2.32
C320	Skill Oriented Course-IV (IOT Fundamentals - Connecting things)	2.3	2.2	2.4	2.4	2.3	-	-	2.32
C401	Professional Elective – III: Electric Drives	2.3	2.3	2.3	2.1	2.2	-	-	2.24
C402	Professional Elective – IV: FACTS	2.3	2.3	2.2	2.3	2.3	-	-	2.28
C403	Professional Elective –V: Economic Operations and Control of Power Systems	2.2	2.4	2.2	2.3	2.2	-	-	2.26
C404	Open Elective – III: Digital IC Applications offered by ECE	2	2	2.3	2.1	2	-	-	2.08
C405	Open Elective – IV: Innovation and Entrepreneurship offered by ME	2.3	2.3	2.3	2.2	2.2	-	-	2.26
C406	Management & Organizational Behavior	2.5	2.4	2.5	2.5	2.6	-	-	2.5
C407	Summer Internship-II	2.4	2.4	2.4	2.3	2.3	2.5	-	2.38
C408	Skill Oriented Course-V (IOT Fundamentals - Big Data & Analytics)	2.3	2.2	2.4	2.4	2.3	-	-	2.32

C409	Project Work, Seminar and Internship in Industry	2.6	2.5	2.5	2.4	2.5	2.5	2.5	2.5

3.3 Attainment of Program Outcomes and Program Specific Outcomes (75)

3.3.1 Describe assessment tools and processes used for measuring the attainment of each Program Outcome and Program Specific Outcomes (10)

ASSESSMENT TOOLS – POs & PSOs (DIRECT & INDIRECT)

The attainment of program outcomes (POs) and Program Specific Outcomes (PSOs) is evaluated by PAQIC that identifies, collects, and prepares data from assessment processes. The assessment processes are categorized as per the following.

- Direct Assessments
- Indirect Assessments

A. Assessment Tools and Process used for measuring direct attainment of POs and PSOs	**Direct attainment level of POs & PSOs is determined by taking average across all course's attainment levels addressing that PO and/or PSO.** The average CO attainment levels of all courses at program level are calculated as per the process described in section 3.2.2. The PO and PSO attainment levels are evaluated based on the Program level Course – PO mapping as per the section 3.1.

PO Attainment (Direct)

Example Scenario

Calculation of Attainment of mapped PO through a course:

$$Mapped PO of a course = \frac{Attainment of CO s of a course * Mapping value of PO}{3}$$

Calculation of PSO Attainments:

$$Mapped PSO of a course = \frac{Attainment of CO s of a course * Mapping value of PSO}{3}$$

C215: Course - PO mapping matrix

Course Code	Course Name	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C215	Control Systems	2	3	-	-	-	-	-	-	-	-	-	-

C215: Attainment of COs (Direct)

CO C215	Direct attainment
C215.1	2.85
C215.2	1.95
C215.3	2.15
C215.4	2.1
C215.5	3
Average	**2.41**

Attainment of POs (Direct) through C215

Course Code	Course Name	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C215	Control Systems	1.61	2.41	-	-	-	-	-	-	-	-	-	-

C215: Course - PSO mapping matrix

Course Code	Course Name	PSO1	PSO2	PSO3
C215	Control Systems	3	-	-

C215: Attainment of COs (Direct)

CO C215	Direct attainment
C215.1	2.85
C215.2	1.95
C215.3	2.15
C215.4	2.1
C215.5	3
Average	**2.41**

Attainment of PSOs (Direct) through C215

Course Code	Course Name	PSO1	PSO2	PSO3
C215	Control Systems	2.41	-	-

B. Indirect Assessment Tools and Process:	Indirect attainment level of PO & PSO is determined based on the student exit surveys. This data is generated by administering i. course and ii. program exit surveys. The indirect attainment of POs and PSOs is calculated as the average of course exit survey and program exit survey.

i) Attainment of POs (Indirect – Course exit survey): The average CO attainment levels of all courses at program level are calculated as per the process described in section 3.2.2. The PO and PSO attainment levels are evaluated based on the Program Level Course – PO mapping matrix as per the section 3.1

Example Scenario:

Calculation of Attainment mapped PO through a course:

$$\boldsymbol{MappedPOofacourse} = \frac{\boldsymbol{AttainmentofCOsofacourse}\ (\boldsymbol{survey}) * \boldsymbol{MappingvalueofPO}}{\mathbf{3}}$$

Calculation of PSO Attainments:

$$\boldsymbol{MappedPSOofacourse} = \frac{\boldsymbol{AttainmentofCOsofacourse}\ (\boldsymbol{survey}) * \boldsymbol{MappingvalueofPSO}}{\mathbf{3}}$$

C215: Course - PO mapping matrix

Course Code	Course Name	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
C215	Control Systems	2	3	-	-	-	-	-	-	-	-	-

C215: Attainment of COs (Indirect) through Course Exit survey

CO C215	Indirect Attainment
C215.1	2.7
C215.2	2.4
C215.3	2.5
C215.4	2.6
C215.5	2.5
Average	**2.54**

Table B.3.3.1a: Attainment of POs (Indirect – Course exit survey) through all the courses.

Course Code	Course Name	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C101	Calculus & Ordinary Differential Equations	2.62	1.75	-	-	-	-	-	-	-	-	-	-
C102	Applied Physics	2.57	1.72	-	-	-	-	-	-	-	-	-	-
C103	Programming for Problem Solving Using C	2.57	1.72	-	-	-	-	-	-	-	-	-	-
C104	Engineering Drawing	1.7	2.54	-	-	-	-	-	-	-	-	-	-
C105	English	-	-	-	-	-	0.86	-	-	-	2.58	-	-

C106	Soft Skills Course-1	-	-	-	-	-	-	-	1.78	-	2.67	-	0.89
C107	Constitution of India	-	-	-	-	-	1.73	-	1.73	0.87	-	-	0.87
C108	Applied Physics Lab	2.71	1.81	-	2.71	-	-	-	1.81	2.26	1.81	-	-
C109	Programming for Problem Solving Using C Lab	2.65	1.77	-	2.65	-	-	-	1.77	2.65	1.77	-	-
C110	English Lab	-	-	-	-	1.81	-	-	1.81	2.26	2.26	-	-
C111	Linear Algebra and Numerical Methods	2.59	1.73	-	-	-	-	-	-	-	-	-	-
C112	Applied Chemistry	2.57	1.72	-	-	-	-	0.86	-	-	-	-	-
C113	Electrical Circuit Analysis-I	2.59	1.73	-	-	-	-	-	-	-	-	-	-
C114	Basic Electronic Devices & Circuits	2.59	2.25	-	-	-	-	-	-	-	-	-	-
C115	Python Programming	2.62	1.75	-	-	-	-	-	-	-	-	-	-
C116	Soft Skills Course-II	-	-	-	-	-	-	-	1.76	-	2.64	-	0.88

C117	Environmental Science	2.58	-	-	-	-	1.72	2.58	0.86	-	-	-	-
C118	Applied Chemistry Lab	1.78	1.78	-	1.78	-	-	-	1.78	2.23	1.78	-	-
C119	Python Programming Lab	2.64	1.76	-	2.64	-	-	-	1.76	2.64	1.76	-	-
C120	Electrical Engineering Workshop	1.79	-	-	2.68	-	-	-	1.79	2.68	1.79	-	-
C201	Digital Electronics	2.46	1.64	-	-	-	-	-	-	-	-	-	-
C202	Electrical Circuit Analysis -II	1.66	2.48	-	-	-	-	-	-	-	-	-	-
C203	DC Machines & Transformers	1.64	2.46	-	-	-	-	-	-	-	-	-	-
C204	Electro Magnetic Fields	1.59	2.38	-	-	-	-	-	-	-	-	-	-
C205	Power Systems-I	1.87	2.8	-	-	-	-	-	-	-	-	-	-
C206	Electronics Engineering Lab	2.35	2.82	-	2.82	-	-	-	1.88	2.82	1.88	-	-
C207	Electrical Circuits Lab	2	3	-	3	-	-	-	2	3	2	-	-
C208	DC Machines and	1.88	2.82	-	2.82	1.88	-	-	1.88	2.82	1.88	-	-

	Transformers Lab												
C209	Skill Oriented Course-I (Programming for problem solving using C)	-	-	-	-	-	0.95	1.89	1.89	-	-	1.89	1.89
C210	Vector Calculus, Transforms and PDE	2.35	2.35	-	-	2.82	-	-	-	2.82	1.88	-	2.35
C211	Managerial Economics and Financial Analysis	2.88	1.92	-	-	-	-	-	-	-	-	-	-
C212	Essence of Indian Traditional Knowledge	1.88	2.81	-	-	-	-	-	-	-	-	-	-
C213	Electrical Measurements and Instrumentation	1.88	2.82	-	-	-	-	-	-	-	-	-	-
C214	Induction and Synchr	1.64	2.46	-	-	-	-	-	-	-	-	-	-

	onous Machines												
C215	Control Systems	1.7	2.54	-	-	-	-	-	-	-	-	-	-
C216	Induction and Synchronous Machines Lab	1.64	-	-	2.45	-	-	-	1.64	2.45	1.64	-	-
C217	Electrical Measurements & Instrumentation Lab	1.62	-	-	2.43	-	-	-	1.62	2.43	1.62	-	-
C218	Control Systems Lab	1.7	-	-	2.55	-	-	-	1.7	2.55	1.7	-	-
C219	Skill Oriented Course-II (Python Programming)	2.14	2.14	-	-	2.57	-	-	-	2.57	1.72	-	2.14
C301	Professional Ethics & Universal Human Values	-	-	-	-	-	-	1.6	2.4	1.6	-	-	0.8
C302	Power Electronics	1.7	2.54	-	-	-	-	-	-	-	-	-	-
C303	Power Systems-II	1.62	2.42	-	-	-	-	-	-	-	-	-	-
C304	Power System Analysis	1.67	2.5	-	-	-	-	-	-	-	-	-	-

C305	Professional Elective – I: Utilization of Electrical Energy	1.71	2.56	-	-	-	-	-	-	-	-	-	-
C306	Open Elective – I: Waste Water Treatment & Recycling – MOOCS(SWAYAM – NPTEL) offered by CE	2.42	-	-	-	-	1.62	2.42	-	-	-	-	1.62
C307	Power Electronics Lab	1.67	-	-	2.5	-	-	-	1.67	2.5	1.67	-	-
C308	Electrical Simulation Lab	1.7	-	-	2.55	-	-	-	1.7	2.55	1.7	-	-
C309	Community Service Project	2.5	-	-	-	2.5	2.5	2.5	-	-	2.5	1.67	
C310	Summer Internship-I	2.4	1.6	-	-	2.4	2.4	2.4	2.4	2.4	2.4	-	2.4
C311	Skill Oriented Course-III (Employability Skills)	2.46	-	-	-	-	1.64	-	2.46	-	2.46	-	2.46

C312	Linear IC Applications	1.51	2.26	-	-	-	-	-	-	-	-	-	-
C313	Microprocessors and Microcontrollers	1.84	2.3	1.54	-	-	-	-	-	-	-	-	-
C314	Renewable Energy Systems	1.64	2.46	-	-	-	-	-	-	-	-	-	-
C315	Professional Elective – II: Switchgear & Protection	1.52	2.28	-	-	-	-	-	-	-	-	-	-
C316	Open Elective Course-II -Air Pollution and Control - MOOCS(SWAYAM – NPTEL) offered by CE	1.93	2.90	-	-	-	-	1.93	-	-	-	-	1.93
C317	Linear IC Applications Laboratory	1.95	2.93	-	2.93	-	-	-	1.95	2.93	1.95	-	-
C318	Microprocessors & Microcontrolle	1.96	2.93	-	2.93	2.93	-	-	1.96	2.93	1.96	-	-

	rs Laboratory												
C319	Power Systems& Simulation Laboratory	2.95	1.97	-	2.95	-	-	-	1.97	2.95	1.97	-	-
C320	Skill Oriented Course-IV (IOT Fundamentals - Connecting Things)	2.26	-	2.26	-	2.26	-	-	-	2.26	1.51	-	1.89
C401	Professional Elective – III: Electric Drives	1.5	2.24	-	-	-	-	-	-	-	-	-	-
C402	Professional Elective – IV: FACTS	1.52	2.28	-	-	-	-	-	-	-	-	-	-
C403	Professional Elective –V: Economic Operations and Control of Power Systems	1.51	2.26	-	-	-	-	-	-	-	-	-	-
C404	Open Elective – III: Digital	1.39	2.08	-	-	-	-	-	-	-	-	-	-

	IC Applications offered by ECE												
C405	Open Elective – IV: Innovation and Entrepreneurship offered by ME	-	2.26	-	-	-	-	-	-	-	-	2.26	-
C406	Management & Organizational Behaviour	-	-	-	-	-	-	-	-	2.5	1.67	0.84	1.67
C407	Summer Internship-II	2.39	1.59	-	-	2.39	2.39	2.39	2.39	2.39	2.39	-	2.39
C408	Skill Oriented Course-V (IOT Fundamentals - Big Data & Analytics)	1.55	-	2.32	-	2.32	-	-	-	2.32	1.55	-	1.94
C409	Project Work, Seminar and Internship in Industry	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
Attainment of POs (Indirect – Course exit survey)		**1.99**	**2.13**	**2.16**	**2.49**	**2.37**	**1.79**	**2.12**	**1.81**	**2.32**	**1.92**	**1.91**	**1.73**

C215: Course - PSO mapping matrix

Course Code	Course Name	PSO1	PSO2	PSO3
C215	Control Systems	3	-	-

C215: Attainment of COs (indirect) through Course Exit survey

CO C215	Indirect Attainment
C215.1	2.7
C215.2	2.4
C215.3	2.5
C215.4	2.6
C215.5	2.5
Average	**2.54**

Table B.3.3.1b: Attainment of PSOs (Indirect – Course exit survey) through all the courses.

Course Code	Course Name	PO1	PO2	PO3
C101	Calculus & Ordinary Differential Equations	-	-	-
C102	Applied Physics	-	-	-
C103	Programming for Problem Solving Using C	-	-	-
C104	Engineering Drawing	-	-	-
C105	English	-	-	-
C106	Soft Skills Course-1	-	-	-
C107	Constitution of India	-	-	-
C108	Applied Physics Lab	-	-	-
C109	Programming for Problem Solving Using C Lab	-	-	-
C110	English Lab	-	-	-
C111	Linear Algebra and Numerical Methods	-	-	-
C112	Applied Chemistry	-	-	-
C113	Electrical Circuit Analysis-I	2.59	-	-

C114	Basic Electronic Devices & Circuits	-	-	-
C115	Python Programming	-	-	-
C116	Soft Skills Course-II	-	-	-
C117	Environmental Science	-	-	-
C118	Applied Chemistry Lab	-	-	-
C119	Python Programming Lab	-	-	-
C120	Electrical Engineering Workshop	-	-	2.68
C201	Digital Electronics	-	-	-
C202	Electrical Circuit Analysis -II	2.48	-	-
C203	DC Machines & Transformers	2.46	-	-
C204	Electro Magnetic Fields	2.38	-	-
C205	Power Systems-I	2.66	-	-
C206	Electronics Engineering Lab	-	-	2.68
C207	Electrical Circuits Lab	-	-	2.68
C208	DC Machines and Transformers Lab	-	-	2.5
C209	Skill Oriented Course-I (Programming for problem solving using C)	-	-	2.58
C210	Vector Calculus, Transforms and PDE	-	-	-
C211	Managerial Economics and Financial Analysis	-	-	2.5
C212	Essence of Indian Traditional Knowledge	-	-	-
C213	Electrical Measurements and Instrumentation	2.48	-	-
C214	Induction and Synchronous Machines	2.46	-	-
C215	Control Systems	2.54	-	-
C216	Induction and Synchronous Machines Lab	-	-	2.45
C217	Electrical Measurements & Instrumentation Lab	-	-	2.43
C218	Control Systems Lab	-	-	2.55

C219	Skill Oriented Course-II (Python Programming)	-	-	2.57
C301	Professional Ethics & Universal Human Values	-	-	-
C302	Power Electronics	2.54	-	-
C303	Power Systems-II	2.42	-	-
C304	Power System Analysis	2.5	-	-
C305	Professional Elective – I: Utilization of Electrical Energy	-	2.56	-
C306	Open Elective – I: Waste Water Treatment & Recycling – MOOCS(SWAYAM – NPTEL) offered by CE	-	2.42	-
C307	Power Electronics Lab	-	-	2.5
C308	Electrical Simulation Lab	-	-	2.55
C309	Community Service Project	-	-	2.5
C310	Summer Internship-I	2.4	-	2.4
C311	Skill Oriented Course-III (Employability Skills)	-	-	2.46
C312	Linear IC Applications	-	-	-
C313	Microprocessors and Microcontrollers	-	-	-
C314	Renewable Energy Systems	2.46	-	-
C315	Professional Elective – II: Switchgear & Protection	-	2.28	-
C316	Open Elective – II: Air Pollution and Control – MOOCS(SWAYAM – NPTEL)offered by CE	-	2.3	-
C317	Linear IC Applications Laboratory	-	-	2.28
C318	Microprocessors &Microcontrollers Laboratory	-	-	2.35
C319	Power Systems& Simulation Laboratory	-	-	2.33
C320	Skill Oriented Course-IV (IOT Fundamentals - Connecting Things)	-	-	2.26

C401	Professional Elective – III: Electric Drives	-	2.24	-
C402	Professional Elective – IV: FACTS	-	2.28	-
C403	Professional Elective –V: Economic Operations and Control of Power Systems	-	2.26	-
C404	Open Elective – III: Digital IC Applications offered by ECE	-	2.08	-
C405	Open Elective – IV: Innovation and Entrepreneurship offered by ME	-	2.26	-
C406	Management & Organizational Behavior	-	-	-
C407	Summer Internship-II	2.39	-	2.39
C408	Skill Oriented Course-V (IOT Fundamentals - Big Data & Analytics)	-	-	2.32
C409	Project Work, Seminar and Internship in Industry	2.5	2.5	2.5
Attainment of PSOs (Indirect – Course exit survey)		**2.48**	**2.32**	**2.48**

ii) Indirect Attainment level of POs& PSOs through Program Exit Survey: The PO & PSO indirect attainment levels are calculated using program exit survey. A survey has been conducted at the end of B.Tech. Final year through online mode using Google forms. The students will receive the google form to their personal email id and are requested to participate in survey and give rating (0: disagree, 1: fairly agree, 2: agree and 3: strongly agree) to program outcomes that how much they really achieved during their four years of course work. The format is shown below.

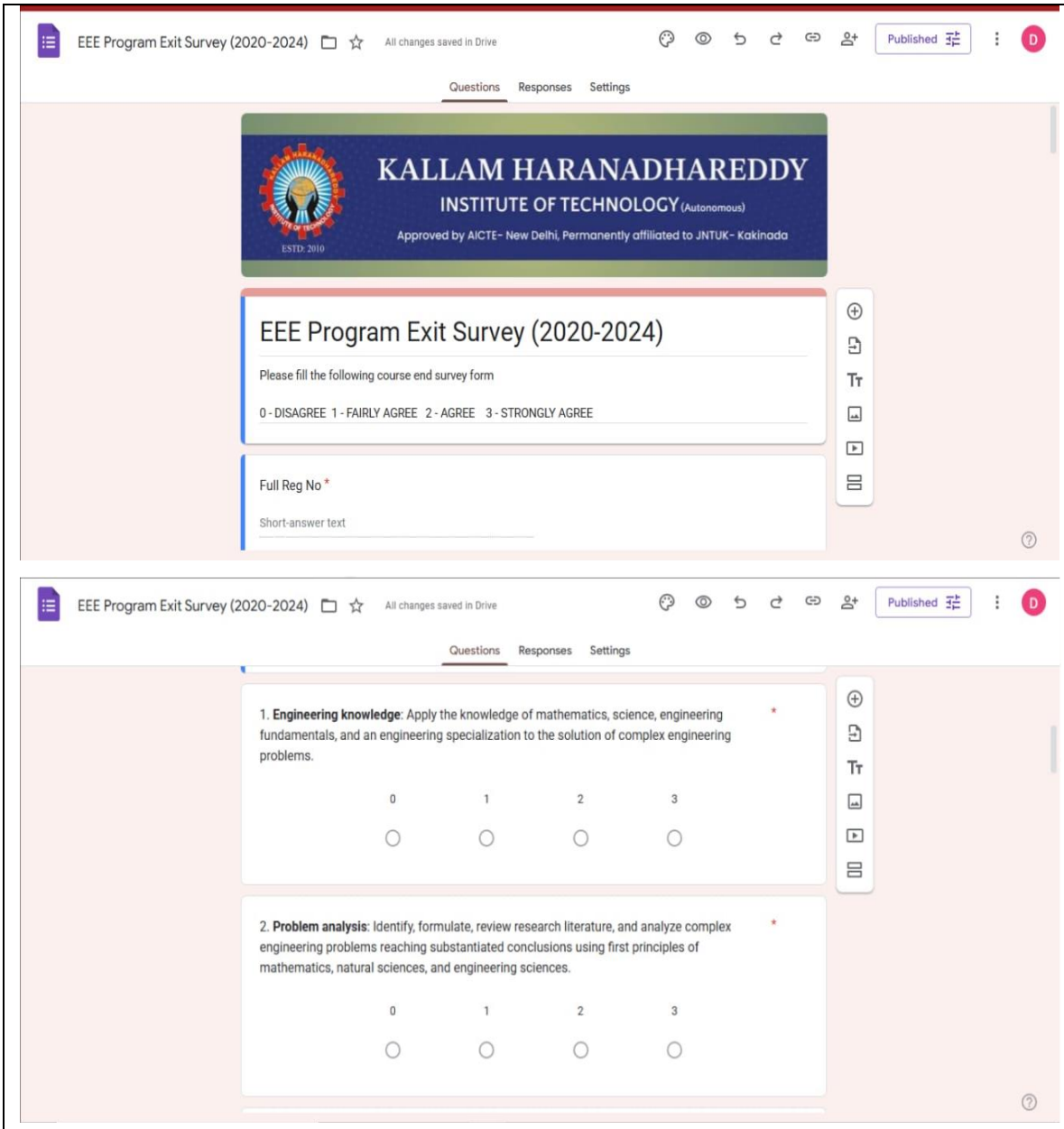


Table B.3.3.1c: Attainment of POs through program exit survey

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
Attainment levels of POs through Program Exit Survey	2.44	2.53	2.41	2.82	2.74	2.06	2.15	2.12	2.41	2.26	2.41	2.09

Table B.3.3.1d: Attainment of PSOs through program exit survey

	PSO1	PSO2	PSO3
Attainment levels of PSO through Program Exit Survey	**2.82**	**2.74**	**2.85**

iii) Attainment of POs and PSOs through Course and Program Exit Survey

The overall indirect Attainment of POs and PSOs through Course and Program Exit Survey is the average of the both as per the following:

Table B.3.3.1e: Indirect Attainment of POs & PSOs

POs	**PO1**	**PO2**	**PO3**	**PO4**	**PO5**	**PO6**	**PO7**	**PO8**	**PO9**	**PO10**	**PO11**	**PO12**	**PSO1**	**PSO2**	**PSO3**
Course Exit survey (Indirect)	1.99	2.13	2.16	2.49	2.37	1.79	2.12	1.81	2.32	1.92	1.91	1.73	2.48	2.32	2.48
Program Exit survey (Indirect)	2.44	2.53	2.41	2.82	2.74	2.06	2.15	2.12	2.41	2.26	2.41	2.09	2.82	2.74	2.85
Average	**2.22**	**2.33**	**2.29**	**2.66**	**2.56**	**1.93**	**2.14**	**1.97**	**2.37**	**2.09**	**2.16**	**1.91**	**2.65**	**2.53**	**2.67**

Attainment Level of POs and PSOs	The attainment of POs and PSOs are calculated using the following formula, PO and PSO Attainment levels = 80% of Direct Attainment + 20% of Indirect Attainment

3.3.2 Provide results of evaluation of each PO & PSO (65)

Table B.3.3.2a: POs & PSOs Attainment (Direct)

Course Code	**PO1**	**PO2**	**PO3**	**PO4**	**PO5**	**PO6**	**PO7**	**PO8**	**PO9**	**PO10**	**PO11**	**PO12**	**PSO1**	**PSO2**	**PSO3**
C101	2.17	1.45	-	-	-	-	-	-	-	-	-	-	-	-	-

C102	1.68	1.12	-	-	-	-	-	-	-	-	-	-	-	-	-
C103	2.2	1.47	-	-	-	-	-	-	-	-	-	-	-	-	-
C104	1.55	2.32	-	-	-	-	-	-	-	-	-	-	-	-	-
C105	-	-	-	-	-	1	-	-	-	3	-	-	-	-	-
C106	-	-	-	-	-	-	-	1.8	-	2.7	-	0.9	-	-	-
C107	-	-	-	-	-	1.95	-	1.95	0.98	-	-	0.98	-	-	-
C108	3	2	-	3	-	-	-	2	2.5	2	-	-	-	-	-
C109	3	2	-	3	-	-	-	2	3	2	-	-	-	-	-
C110	-	-	-	-	2	-	-	2	2.5	2.5	-	-	-	-	-
C111	1.98	1.32	-	-	-	-	-	-	-	-	-	-	-	-	-
C112	1.48	0.99	-	-	-	-	0.5	-	-	-	-	-	-	-	-
C113	1.4	0.94	-	-	-	-	-	-	-	-	-	-	1.4	-	-
C114	1.96	1.7	-	-	-	-	-	-	-	-	-	-	-	-	-
C115	1.06	0.71	-	-	-	-	-	-	-	-	-	-	-	-	-
C116	-	-	-	-	-	-	-	2	-	3	-	1	-	-	-
C117	2.96	-	-	-	-	1.98	2.96	0.99	-	-	-	-	-	-	-
C118	2	2	-	2	-	-	-	2	2.5	2	-	-	-	-	-

C119	3	2	-	3	-	-	-	2	3	2	-	-	-	-	-
C120	2	-	-	3	-	-	-	2	3	2	-	-	-	-	3
C201	1.86	1.24	-	-	-	-	-	-	-	-	-	-	-	-	-
C202	1.16	1.74	-	-	-	-	-	-	-	-	-	-	1.74	-	-
C203	1.8	2.7	-	-	-	-	-	-	-	-	-	-	2.7	-	-
C204	1.15	1.72	-	-	-	-	-	-	-	-	-	-	1.72	-	-
C205	1.95	2.92	-	-	-	-	-	-	-	-	-	-	2.92	-	-
C206	2	-	-	3	-	-	-	2	3	2	-	-	-	-	3
C207	2	-	-	3	-	-	-	2	3	2	-	-	-	-	3
C208	2	-	-	3	-	-	-	2	3	2	-	-	-	-	3
C209	2.5	2.5	-	-	3	-	-	-	3	2	-	2.5	-	-	3
C210	1.02	0.68	-	-	-	-	-	-	-	-	-	-	-	-	-
C211	-	-	-	-	-	-	-	-	1.8	1.8	2.7	1.8	-	-	2.7
C212	-	-	-	-	-	1	2	2	2	-	2	2	-	-	
C213	1.66	2.48	-	-	-	-	-	-	-	-	-	-	2.48	-	-
C214	1.61	2.41	-	-	-	-	-	-	-	-	-	-	2.41	-	-
C215	1.61	2.41	-	-	-	-	-	-	-	-	-	-	2.41	-	-

C216	2	-	-	3	-	-	-	2	3	2	-	-	-	-	3
C217	2	-	-	3	-	-	-	2	3	2	-	-	-	-	3
C218	2	-	-	3	-	-	-	2	3	2	-	-	-	-	3
C219	2.5	2.5	-	-	3	-	-	-	3	2	-	2.5	-	-	3
C301	-	-	-	-	-	-	2	3	2	-	-	1	-	-	-
C302	1.71	2.56	-	-	-	-	-	-	-	-	-	-	2.56	-	-
C303	0.96	1.43	-	-	-	-	-	-	-	-	-	-	1.43	-	-
C304	0.87	1.3	-	-	-	-	-	-	-	-	-	-	1.3	-	-
C305	1.95	2.92	-	-	-	-	-	-	-	-	-	-	-	2.92	-
C306	3	-	-	-	-	2	3	-	-	-	-	2	-	3	-
C307	2	-	-	3	-	-	-	2	3	2	-	-	-	-	3
C308	2	-	-	3	-	-	-	2	3	2	-	-	-	-	3
C309	3	-	-	-	3	3	3	-		3	2	-	-	-	3
C310	3	2	-	-	3	3	3	3	3	3	-	3	3	-	3
C311	3	-	-	-	-	2	-	3	-	3	-	3	-	-	3
C312	1.51	2.26	-	-	-	-	-	-	-	-	-	-	-	-	-

C313	1.99	2.48	1.66	-	-	-	-	-	-	-	-	-	-	-	-
C314	1.98	2.96	-	-	-	-	-	-	-	-	-	-	2.96	-	-
C315	1.98	2.96	-	-	-	-	-	-	-	-	-	-	-	2.96	-
C316	3	-	-	-	-	2	3	-	-	-	-	2	-	3	-
C317	2	-	-	3	-	-	-	2	3	2	-	-	-	-	3
C318	2	-	-	3	-	-	-	2	3	2	-	-	-	-	3
C319	2	-	-	3	-	-	-	2	3	2	-	-	-	-	3
C320	3	-	3	-	3	-	-	-	3	2	-	2.5	-	-	3
C401	1.75	2.62	-	-	-	-	-	-	-	-	-	-	-	2.62	-
C402	1.99	2.98	-	-	-	-	-	-	-	-	-	-	-	2.98	-
C403	1.48	2.22	-	-	-	-	-	-	-	-	-	-	-	2.22	-
C404	1	1.49	-	-	-	-	-	-	-	-	-	-	-	1.49	-
C405	-	2.52	-	-	-	-	-	-	-	-	2.52	-	-	2.52	-
C406	-	-	-	-	-	-	-	-	2.98	1.99	1	1.99	-	-	-
C407	3	2	-	-	3	3	3	3	3	3	-	3	3	-	3
C408	2		3		3	-	-	-	3	2	-	2.5	-	-	3
C409	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3

Direct Attainment (Average)	**2.02**	**2.02**	**2.66**	**2.94**	**2.88**	**2.17**	**2.54**	**2.13**	**2.77**	**2.25**	**2.2**	**2.09**	**2.33**	**2.67**	**2.98**

Table B.3.3.2b: PO & PSO Attainment (Indirect)

Survey	**PO1**	**PO2**	**PO3**	**PO4**	**PO5**	**PO6**	**PO7**	**PO8**	**PO9**	**PO10**	**PO11**	**PO12**	**PSO1**	**PSO2**	**PSO3**
Course Exit survey (Indirect)	1.99	2.13	2.16	2.49	2.37	1.79	2.12	1.81	2.32	1.92	1.91	1.73	2.48	2.32	2.48
Program Exit survey (Indirect)	2.44	2.53	2.41	2.82	2.74	2.06	2.15	2.12	2.41	2.26	2.41	2.09	2.82	2.74	2.85
Indirect Attainment (Average)	**2.22**	**2.33**	**2.29**	**2.66**	**2.56**	**1.93**	**2.14**	**1.97**	**2.37**	**2.09**	**2.16**	**1.91**	**2.65**	**2.53**	**2.67**

Table B.3.3.2c: Final Attainment of POs and PSOs

	PO1	**PO2**	**PO3**	**PO4**	**PO5**	**PO6**	**PO7**	**PO8**	**PO9**	**PO10**	**PO11**	**PO12**	**PSO1**	**PSO2**	**PSO3**
i. Direct Attainment	2.02	2.02	2.66	2.94	2.88	2.17	2.54	2.13	2.77	2.25	2.2	2.10	2.33	2.67	2.98
ii. Indirect Attainment	2.22	2.33	2.29	2.66	2.56	1.93	2.14	1.97	2.37	2.09	2.16	1.91	2.65	2.53	2.67
Final attainment (80% of i + 20% of ii)	**2.06**	**2.08**	**2.59**	**2.88**	**2.82**	**2.12**	**2.46**	**2.10**	**2.69**	**2.22**	**2.19**	**2.05**	**2.39**	**2.64**	**2.92**

CRITERION 4	Students' Performance	100

Table B.4a: Students Admitted in the program

Item	CAY (2024-25)	CAYm1 (2023-24)	CAYm2 (2022-23)	CAYm3 (2021-22)	CAYm4 (LYG) (2020-21)	CAYm5 (LYGm1) (2019-20)	CAYm6 (LYGm2) (2018-19)
Sanctioned intake of the program (N)	**60**	**60**	**60**	**60**	**60**	**60**	**60**
Total number of students admitted in first year minus number of students migrated to other programs/institutions, plus no. of students migrated to this program (N1)	**37**	**21**	**33**	**26**	**42**	**30**	**33**
Number of students admitted in 2nd year in the same batch via lateral entry (*N*2)	**NA**	**32**	**28**	**32**	**14**	**21**	**21**
Separate division students, if applicable (N3)	**Nil**	**Nil**	**Nil**	**Nil**	**Nil**	**Nil**	**Nil**

Total number of students admitted in the Program (N1 + N2 + N3)	**37 (37+0 +0)**	**53 (21+32 +0)**	**61 (33+28 +0)**	**58 (26+32 +0)**	**56 (42+14 +0)**	**51 (30+21+ 0)**	**54 (33+21+ 0)**

Table B.4b: No. of students graduated without backlogs

Year of entry	**N1 + N2 + N3 (As defined above)**	Number of students who have successfully graduated without backlogs in any semester/year of study (Without Backlog means no compartment or failures in any semester/year of study)			
		I Year	II Year	III Year	IV Year
CAY (2024-25)	**37**				
CAYm1 (2023-24)	**21+32+0=53**	3			
CAYm2 (2022-23)	**33+28+0=61**	14	11+12=23		
CAYm3 (2021-22)	**26+32+0=58**	3	2+19=21	2+19=21	
CAYm4 LYG (2020-21)	**42+14+0=56**	16	15+9=24	11+8=19	11+7=18
CAYm5 LYGm1 (2019-20)	**30+21+0=51**	1	1+7=8	1+6=7	1+6=7
CAYm6 LYGm2 (2018-19)	**33+21+0=54**	7	5+7=12	4+7=11	4+7=11

Table B.4c: No. of students graduated in stipulated period of study

Year of entry	**N1 + N2 + N3 (As defined above)**	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
CAY (2024-25)	**37**				
CAYm1 (2023-24)	**21+32+0=53**	20			

CAYm2 (2022-23)	**33+28+0=61**	33	29+26=55		
CAYm3 (2021-22)	**26+32+0=58**	25	23+32=55	22+32=54	
CAYm4 LYG (2020-21)	**42+14+0=56**	41	41+14=55	41+14=55	29+10=39
CAYm5 LYGm1 (2019-20)	**30+21+0=51**	30	30+21=51	27+21=48	19+7=26
CAYm6 LYGm2 (2018-19)	**33+21+0=54**	33	33+21=54	31+20=51	20+13=33

4.1. Enrollment Ratio (20)

Enrollment Ratio = N1/N

Table B.4.1: Students enrollment in the program

Item (Students enrolled at the First Year Level on average basis during the last three years starting from current academic year)	**CAY (2024-25)**	**CAYm1 (2023-24)**	**CAYm2 (2022-23)**
Sanctioned intake of the program (N)	**60**	**60**	**60**
Total number of students admitted in first year minus number of students migrated to other programs/institutions plus no. of students migrated to this program (N1)	**37**	**21**	**33**
Enrolment Ratio	**61.67**	**35.00**	**55.00**
Average Enrolment Ratio	**50.56**		

Average enrollment ratio= **50.56%**

Marks (<=60) = **0**

4.2. Success Rate in the stipulated period of the program (20)

4.2.1. Success rate without backlogs in any semester/year of study (15)

Table B.4.2.1: Success rate without backlogs

Item	**Latest Year of Graduation, LYG (2020-21)**	**Latest Year of Graduation minus1, LYGm1 (2019-20)**	**Latest Year of Graduation minus 2, LYGm2 (2018-19)**
Number of students	**42+14+0=56**	**30+21+0=51**	**33+21+0=54**

admitted in the corresponding First Year + admitted in 2nd year via lateral entry and separate division, if applicable.			
Number of students who have graduated without backlogs in the stipulated period	**18**	**7**	**11**
Success Index	**0.33**	**0.14**	**0.20**
Average of Success Index	**0.22**		

Average SI = **0.22**
Marks: 15 X 0.22 = **3.30**

4.2.2. Success rate in stipulated period of study [Total of with backlog + without backlog] (5)

Table B.4.2.2: Success rate in stipulated period of study

Item	**Latest Year of Graduation, LYG (2020-21)**	**Latest Year of Graduation minus 1, LYGm1 (2019-20)**	**Latest Year of Graduation minus 2, LYGm2 (2018-19)**
Number of students admitted in the corresponding First Year + admitted in 2nd year via lateral entry and separate division, if applicable	**42+14+0=56**	**30+21+0=51**	**33+21+0=54**
Number of students who have graduated in the stipulated period	**39**	**26**	**33**
Success Index	**0.70**	**0.51**	**0.61**
Average of Success Index	**0.61**		

Average SI = **0.61**
Marks: 5 X 0.61 = **3.05**

4.3. Academic Performance in Second Year (10)

Table B.4.3: Academic Performance in Second Year

Academic Performance	CAYm1 (2023-24)	CAYm2 (2022-23)	CAYm3 (2021-22)
Mean of 2nd Year Grade Point Average of all successful Students on a 10-point scale) or (Mean of the percentage of marks of all successful students in Second Year/10)	6.55	6.88	6.98
Total no. of successful students (Y)	55	55	55
Total no. of students appeared in the examination (Z)	55	55	55
API = X * (Y/Z)	6.55	6.88	6.98
Average API = (AP1 + AP2 +AP3)/3	6.80		

Average of API = **6.80**
Marks = **6.80**

4.4. Placement, Higher Studies, and Entrepreneurship (30)

Table B.4.4: Placement, Higher Studies, and Entrepreneurship

Item	CAYm1 (2023-24) 2020 Batch	CAYm2 (2022-23) 2019 Batch	CAYm3 (2021-22) 2018 Batch
Total No. of Final Year Students (N)	**55**	**48**	**51**
No. of students placed in companies or Government Sector (x)	**35**	**22**	**26**
No. of students admitted to higher studies with valid qualifying scores (GATE or equivalent State or National Level Tests, GRE, GMAT etc.) (y)	**1**	**4**	**3**
No. of students turned entrepreneur in engineering / technology (z)	**0**	**0**	**0**
x + y + z	**36**	**26**	**29**
Placement Index: (x + y + z)/N	**0.65**	**0.54**	**0.57**
Average placement = (P1 + P2 + P3)/3	**0.59**		
Assessment Points = 30 × average placement	**17.6**		

Marks = 17.6

4.4a. Provide the placement data in the below mentioned format with the name of the program and the assessment year

Program Name and Assessment Year: B.Tech. Electrical and Electronics Engineering and CAYm4				
S.No	**Name of the student placed**	**Enrollment no.**	**Name of the Employer**	**Appointment letter reference no. with date**
1	Bontha Venkata Naga Mani Krishna Achyuth	208X1A0206	Surya Tech Solutions, Bangalore	STS/OPS/HYD/22-23/13 & 23.04.2024
2	Guntu Kalyani	208X1A0213	Qspiders, Hyderabad	QSP/HY/AL-HR/2024/037 & 30.03.2024
3	Gurram Bhavani Hari Shankar	208X1A0214	Logskim Solutions, Chennai	LSS/HR/AT/AL/2023-24/19 & 30.03.2024
4	Jakkireddy Prasanna Lakshmi Reddy	208X1A0215	Logskim Solutions, Chennai	LSS/HR/AT/AL/2023-24/20 & 30.03.2024
5	Kanchi Sai Venkata Chaithanya	208X1A0217	Surya Tech Solutions, Bangalore	STS/OPS/HYD/22-23/16 & 23.04.2024
6	Mulam Anil	208X1A0224	Pentagon Space, Bangalore	PENT/HR/SET/2023-24/6 & 18.04.2024
7	Mule Venkata Vinod Reddy	208X1A0225	Logskim Solutions, Chennai	LSS/HR/AT/AL/2023-24/22 & 30.03.2024
8	Onteddu Hari Priya	208X1A0228	Excelr Solutions, Bangalore	e-cap/QA/2023-24/31 & 9.12.2023
9	Rangannapalem Lavanya Vijaya Lakshmi	208X1A0232	Logskim Solutions, Chennai	LSS/HR/AT/AL/2023-24/23 & 30.03.2024
10	Savalam Rajesh	208X1A0234	Surya Tech Solutions, Bangalore	STS/OPS/HYD/22-23/17 & 23.04.2024
11	Shaik Sameer Basha	208X1A0236	Surya Tech Solutions, Bangalore	STS/OPS/HYD/22-23/18 & 23.04.2024

12	Kollipaka John Deva Prabhudas	218X5A0204	Surya Tech Solutions, Bangalore	STS/OPS/HYD/22-23/19 & 23.04.2024
13	Lankapalli Naga Yaswanth	218X5A0205	Surya Tech Solutions, Bangalore	STS/OPS/HYD/22-23/20 & 23.04.2024
14	Sesham Uma Maheswara Rao	218X5A0209	Logskim Solutions, Chennai	LSS/HR/AT/AL/2023-24/25 & 30.03.2024
15	Tummalapalli Jagadish	218X5A0210	Just Dial, Hyderabad	JDL/HR/CIC/2023-24/22 & 21.12.2023
16	S. Vamsi Krishna	218X5A0214	Surya Tech Solutions, Bangalore	STS/OPS/HYD/22-23/21 & 23.04.2024
17	Alapati Aparna	208X1A0201	MEIL, Hyderabad	MEIL/GET/2024/011 & 20.03.2024
18	Bathula Sri Manikanta	208X1A0202	Logskim Solutions, Chennai	LSS/HR/AT/AL/2023-24/56 & 30.03.2024
19	Bathula Tejasri	208X1A0203	MEIL, Hyderabad	MEIL/GET/2024/012 & 20.03.2024
20	Bellamkonda Deepthi	208X1A0204	Just Dial, Hyderabad	JDL/HR/CIC/2023-24/44 & 21.12.2023
21	Bhimi Reddy Sai Vighnesh Reddy	208X1A0205	Surya Tech Solutions, Bangalore	STS/OPS/HYD/22-23/14 & 23.04.2024
22	Gattu Sandhya Rani	208X1A0212	MEIL, Hyderabad	MEIL/GET/2024/013 & 20.03.2024
23	Kanamarlapudi Venkata Pavana Lakshmikumari	208X1A0216	Logskim Solutions, Chennai	LSS/HR/AT/AL/2023-24/57 & 30.03.2024
24	Marri Triveni	208X1A0220	MEIL, Hyderabad	MEIL/GET/2024/014 & 20.03.2024
25	Mellempudi Vikram	208X1A0222	MEIL, Hyderabad	MEIL/GET/2024/015 & 20.03.2024
26	Naru Karthik Reddy	208X1A0226	Just Dial, Hyderabad	JDL/HR/CIC/2023-24/45 & 21.12.2023
27	Nimmala Naveen	208X1A0227	Logskim Solutions, Chennai	LSS/HR/AT/AL/2023-24/58 & 30.03.2024
28	Pappula Pravallika	208X1A0229	Just Dial, Hyderabad	JDL/HR/CIC/2023-24/46 & 21.12.2023

29	Prathipati Jayalakshmi	208X1A0230	Logskim Solutions, Chennai	LSS/HR/AT/AL/2023-24/59 & 30.03.2024
30	Sagabandi Lavanya	208X1A0233	Just Dial, Hyderabad	JDL/HR/CIC/2023-24/47 & 21.12.2023
31	Shaik Karishma Begum	208X1A0235	MEIL, Hyderabad	MEIL/GET/2024/016 & 20.03.2024
32	Vanga Divya Teja	208X1A0240	Surya Tech Solutions, Bangalore	STS/OPS/HYD/22-23/15 & 23.04.2024
33	Gampa Sairam	218X5A0201	Logskim Solutions, Chennai	LSS/HR/AT/AL/2023-24/21 & 30.03.2024
34	Orsu Sai Gowtham	218X5A0206	Just Dial, Hyderabad	JDL/HR/CIC/2023-24/48 & 21.12.2023
35	Palaki Pooja Bhargavi	218X5A0207	Logskim Solutions, Chennai	LSS/HR/AT/AL/2023-24/60 & 30.03.2024

Program Name and Assessment Year : B.Tech. Electrical and Electronics Engineering and CAYm5				
S.No	**Name of the student placed**	**Enrollment no.**	**Name of the Employer**	**Appointment letter reference no. with date**
1	Abothula Sai Siva	198X1A0201	Concentrix, Chennai	CNX-CHN-TS-2023-133 & 16.02.2023
2	Challa Jeevithesh	198X1A0203	Surya Tech Solutions, Hdyerabad	STS/OPS/HYD/22-23/05 & 04.04.2023
3	Goddanti Amulya	198X1A0208	Slk Software, Bangalore	SLK/TG1/22/026 & 26.12.2022
4	Gontla Kalpana Sri	198X1A0209	Concentrix, Chennai	CNX-CHN-TS-2023-136 & 16.02.2023
5	Polipogu Swarna Jyothi	198X1A0219	Muvr0 Technologies(Talentise Global Pvt Ltd)	MUVR0/HRD/2024/ GET/10 & 22.05.2023
6	Raprolu Vaishnavi Sri Mowkthika	198X1A0222	Concentrix, Chennai	CNX-CHN-TS-2023-139 & 16.02.2023

7	Sadaraboyina Vijaya Prasanna Kumar	198X1A0223	Surya Tech Solutions, Hdyerabad	STS/OPS/HYD/22-23/06 & 04.04.2023
8	Baireddy Sai Pramod Reddy	208X5A0203	Surya Tech Solutions, Hdyerabad	STS/OPS/HYD/22-23/04 & 04.04.2023
9	Damaraparapu Anideep	208X5A0204	Surya Tech Solutions, Hdyerabad	STS/OPS/HYD/22-23/09 & 04.04.2023
10	Dharam Surendra	208X5A0205	MEIL, Hyderabad	MEIL/90030845/57 & 10.04.2023
11	Govindu Bharath Kumar	208X5A0206	Surya Tech Solutions, Hdyerabad	STS/OPS/HYD/22-23/12 & 04.04.2023
12	Locharla Dilleswari	208X5A0207	Concentrix, Chennai	CNX-CHN-TS-2023-145 & 16.02.2023
13	Maddiguntla Bhavani Shankar	208X5A0208	Surya Tech Solutions, Hdyerabad	STS/OPS/HYD/22-23/07 & 04.04.2023
14	Malneni Vidurasri	208X5A0209	Concentrix, Chennai	CNX-CHN-TS-2023-147 & 16.02.2023
15	Raj Kumar Prathipati	208X5A0210	Surya Tech Solutions, Hdyerabad	STS/OPS/HYD/22-23/11 & 04.04.2023
16	Sakila Venkata Sakethnath	208X5A0212	MEIL, Hyderabad	MEIL/90030845/59 & 10.04.2023
17	Sangu Bala Pushpa Latha	208X5A0214	Concentrix, Chennai	CNX-CHN-TS-2023-150 & 16.02.2023
18	Shaik Nizamuddin	208X5A0215	Surya Tech Solutions, Hdyerabad	STS/OPS/HYD/22-23/01 & 04.04.2023
19	Tarri Mahesh	208X5A0217	Surya Tech Solutions, Hdyerabad	STS/OPS/HYD/22-23/02 & 04.04.2023
20	Thamidala Sadasivareddy	208X5A0218	Surya Tech Solutions, Hdyerabad	STS/OPS/HYD/22-23/10 & 04.04.2023
21	Thota Syam Kumar	208X5A0219	Surya Tech Solutions, Hdyerabad	STS/OPS/HYD/22-23/13 & 04.04.2023

22	Bhaviri Roopesh Ravindra	208X5A0221	Surya Tech Solutions, Hdyerabad	STS/OPS/HYD/22-23/16 & 04.04.2023

Program Name and Assessment Year : B.Tech. Electrical and Electronics Engineering and CAYm6				
S.No	**Name of the student placed**	**Enrollment no.**	**Name of the Employer**	**Appointment letter reference no. with date**
1	Ala Swarupa Rani	188X1A0201	HCL	HCL/ASE/2022/1928380 & 21-03-2022
2	Gundreddy Chaithanya	188X1A0204	SUTHERLAND	SGSP/HR/AL/21-22/027 & 30.04.22
3	Jonnalagadda Divya	188X1A0207	TCS	TCS/DT20218298201/HYDERABAD & 14.11.21
4	Juturi Prabhavathi	188X1A0208	HCL	HCL/ASE/2022/1928381 & 21-03-2022
5	Kaja Rama Asritha	188X1A0209	CAPGEMINI	1735524 & 22.3.22
6	Kancherla Pavani Priya	188X1A0210	INFOSYS	HRD/3T/1003424506/22-23 & 09-12-2022
7	Kommineni Ravali	188X1A0211	HCL	HCL/ASE/2022/1928376 & 21-03-2022
8	Kothapuli Nagireddy	188X1A0212	WIPRO	1663268 & 25-03-2022
9	Polisetti Revathi	188X1A0218	WIPRO	2202322 & 25.3.22
10	Pusuluri Ramanjaneyulu	188X1A0221	WIPRO	1763624 & 26.11.21
11	Shaik Sony	188X1A0225	HCL	HCL/ASE/2022/1928377 & 21-03-2022
12	Sure Jeetendra Srikar	188X1A0230	WIPRO	1663268 & 25.3.22
13	Vallapu Venkata Ramani	188X1A0231	WIPRO	1660217 & 25.3.22
14	Vemala Sai Venkat	188X1A0232	CAPGEMINI	1659315 & 22.3.22
15	Yarroju Teja	188X1A0233	WIPRO	1519124 & 12-06-2021
16	A. Manikanta	198X5A0201	INFOSYS	HRD/3T/1003064927/22-23 & 09-12-2022
17	G.Ashok	198X5A0204	INFOSYS	HRD/3T/1003317207/22-23 & 09-12-2022

18	I.V.N.Sai Manikanta Prudhvi Raj	198X5A0205	TCS	TCS/DT20218294630 /HYDERABAD & 14.11.21
19	K.Ravi Kiran	198X5A0208	HCL	HCL/ASE/2022/1928 382 & 21-03-2022
20	L.Guru Bhavani Naga Santhoshi	198X5A0214	TCS	TCS/DT20218294504 /HYDERABAD & 14.11.21
21	P.Bhavani Shankar	198X5A0215	WIPRO	1623890 & 25-03-2022
22	P.Chaitanya Siva Nagaraju	198X5A0216	HCL	HCL/ASE/2022/1928 378 & 21-03-2022
23	S.Ananda Mani	198X5A0217	INFOSYS	HRD/3T/1003412725/ 22-23 & 09-12-2022
24	T.Anuhya	198X5A0218	WIPRO	2221165 & 25.3.22
25	U.Sai Kiran	198X5A0219	INFOSYS	HRD/3T/1003400240/ 22-23 & 09-12-2022
26	V.Ramu	198X5A0220	TCS	TCS/DT20218288367 /HYDERABAD & 14.11.21

4.5. Professional Activities (20)

4.5.1. Professional societies/chapters and organizing engineering events (5)

In the department of EEE, faculty and students are the members of professional society **ISTE.** Department organizes workshops, seminars, technical symposia and guest lecturers under the professional societies. In addition, department student association in the name of E-TECHNO organizes technical events and outreach activities.

Table 4.5.1a: Professional society/chapters and student associations-year of establishment

S. No	Name of The Professional Society/Chapters and student association	Year of Establishment
1.	ISTE Faculty Chapter	2016
2	ISTE Student Chapter	2016
2.	E – TECHNO	2017

(a) <u>Indian Society for Technical Education (ISTE) Professional Society:</u>

Indian Society for Technical Education (ISTE) provides quality training programs for technical students to update their knowledge and skills in their fields of activity. It is to assist and contribute in the production and development of top-quality professional engineers and technicians needed by the industry and other

organizations. It also helps the students to develop the better learning skills and personality. ISTE student chapter was inaugurated in KHIT in the year 2016.

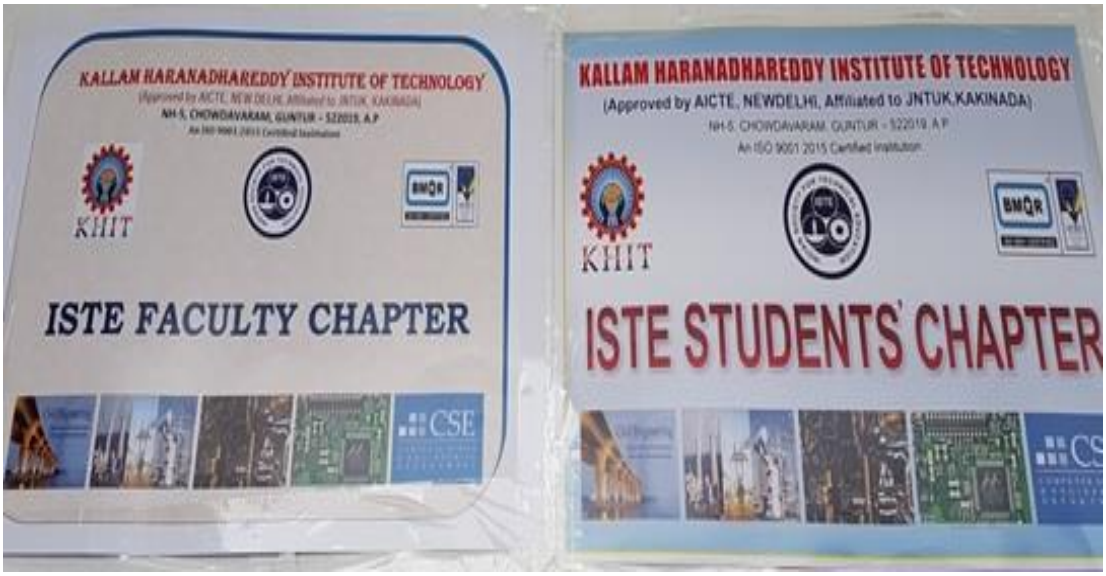


Fig: 4.5.1a: ISTE Faculty Chapter Fig: 4.5.1b: ISTE Student Chapter

Fig: 4.5.1c: Inauguration of ISTE student Chapter

Table B.4.5.1b: ISTE Faculty Chapter Executive Body (AP-143)

S. No	Role	Name and Designation
1	Chair Person	Dr. M Satish Kumar, Professor & HOD CE Dept.
2	Secretary	Mrs. V Santhi Sri, Associate Professor, ECE Dept.
3	Member1	Dr. P Prabhakara Sharma, Professor, EEE Dept.
4	Member2	Dr. Ch Srinivasa rao, Professor, ME Dept.
5	Member3	Dr. V Rajiv Jetson, Professor & HOD,CSE Dept.

6	Member4	Mr. M Jugal Kishore, Associate Professor, CE Dept.
7	Member5	Dr. L Shanmukha Rao, CoE.

Table B.4.5.1c: ISTE Student Chapter Executive Body(AP-182)

S. No	Role	Name and Designation
1	Faculty Advisor	Dr. M. Satish Kumar, Professor, Civil Dept.
2	Student Chair Person	G. Sravya – 218X1A0206
3	Student Secretary	S. Manikanta – 218X1A0318
4	Member1	G. Laya – 218X1A0107
5	Member2	Sk. Khadar Basha – 228X1A0231
6	Member3	P. Karthik – 218X1A0486
7	Member4	SK. Sohel – 218X1A1237
8	Member5	K. Nagendra – 238X5A0311
9	Member6	G. Sowmya Ratna – 228X1A0458
10	Member7	SK. Mohammad Ali – 218X1A05A1
11	Member8	P. Jacob – 228X1A0114

Table B.4.5.1d: Life Membership ISTE Faculty Chapter -(AP-143)

EEE Dept. Staff Members:

S. No	Name of the Staff	Designation	Membership	ISTE Membership No.
1	Dr. K. Hari Krishna	Professor & HoD	ISTE	LM112255
2	Dr. L. Shanmukha Rao	Professor	ISTE	LM112254
3	Dr. G. Kishor Babu	Professor	IEI	M-160786-8
4	Dr. P.P. Sharma	Assoc. Professor	ISTE	LM112258
5	Mr. R. Subbareddy	Assoc. Professor	ISTE	LM112253
6	Mr. M. V. N. Murthy	Assoc. Professor	ISTE	LM112256
7	Mr. V.Rajesh	Assistant Professor	IEI	AM1839082

Table B.4.5.1e: Student Members – ISTE Students Chapter-(AP-182)

EEE Dept.

S.No	Name of the Student	Roll No	Membership	ISTE Membership No
1	G.Sri Lakshmi	208X1A0211	ISTE	Live
2	A.Aparna	208X1A0201	ISTE	Live

3	Orsu Sai Gowtham	218X5A0206	ISTE	Live
4	S.Lavanya	208X1A0233	ISTE	Live
5	Palaki Pooja Bhargavi	218X5A0207	ISTE	Live
6	L Nagayaswanth	218X5A0205	ISTE	Live
7	K.V.P Lakshmi Kumari	208X1A0216	ISTE	Live
8	M.V.Vinod Reddy	208X1A0225	ISTE	Live
9	G.Sandhya Rani	208X1A0212	ISTE	Live
10	G.Kalyani	208X1A0213	ISTE	Live
11	Govindu Sravya	218X1A0206	ISTE	Live
12	Kalisetty Prem Chand	218X1A0209	ISTE	Live
13	Pattapuraju Kiranmai	228X5A0223	ISTE	Live
14	Veerisetty Thilak Kumar	218X1A0223	ISTE	Live
15	Chatarajupalli Vaishnavi	228X5A0202	ISTE	Live
16	Beluguri Venkata Krishna Vinay	218X1A0202	ISTE	Live
17	Palla Ajay Kumar	228X5A0221	ISTE	Live
18	Pathlavath Madhavi Bai	218X1A0226	ISTE	Live
19	Katta Komali	228X5A0214	ISTE	Live
20	Goda Siva Nagalakshmi	228X5A0206	ISTE	Live
21	Govindu Sravya	218X1A0206	ISTE	Live
22	Veerisetty Thilak Kumar	218X1A0223	ISTE	Live
23	Kotha Venkata Ramya	218X1A0210	ISTE	Live
24	Pattapuraju Kiranmai	228X5A0223	ISTE	Live
25	Pathlavath Madhavi Bai	218X1A0226	ISTE	Live
26	Chatarajupalli Vaishnavi	228X5A0202	ISTE	Live
27	Shaik Khadar Basha	228X1A0231	ISTE	Live
28	Pralayakaveri Gopi	238X5A0211	ISTE	Live
29	P Venkata Subhash Reddy	228X1A0215	ISTE	Live
30	Gaddam Shankari	228X1A0212	ISTE	Live
31	Annapureddy Sowmya Reddy	228X1A0206	ISTE	Live
32	Challagundla Manikanta	238X5A0204	ISTE	Live

Student Association (E-TECHNO)

KHIT Association for Electrical Techno (E-TECHNO) chapter is an integral part of the Electrical and Electronics Engineering Department established in Sep, 2016. E-Techno has encouraged the academic and scientific development of the department's student body through various activities such as project competitions, technical workshops and talks by experts. Annually, the E-TECHNO hosts SAMKALP, Technical workshops, job/internship talks and involves the students in conducting societal activities.

Table B.4.5.1f: E-Techno Office Bearers

S.No	Post	Names
1	Patron	Dr. K. Hari Krishna, HoD, EEE
2	Advisory Committee	Dr. G. Kishore Babu ,Professor
3	President	Mr. Veerisetty Thilak Kumar - 218X1A0223
4	Secretary	Ms. Govindu Sravya - 218X1A0206
5	Executive Members	Mr. Shaik Khadar Basha-III-EEE-228X1A0231
		Ms. Talabathula Srilekha-II-EEE-238X1A0215

Table B.4.5.1g: Details of engineering events organized under professional societies /chapters and departmental association

CAY: 2024-25

S. No	Name of the Event Organized	Event Type	Date	Resource Person with Affiliation
1	A Five-Day Workshop on Internet of Things (IoT.) in association with APSSDC	Workshop	30-12-2024 to 04-01-2025	Mr. B. Mahidhar, Trainer, APSSDC, Vijayawada, Andhra Pradesh
2	One week workshop on “PLC Training” in association with APSSDC	Workshop	10-06-2024 to 15-06-2024	Mr. B. Mahidhar, Trainer, APSSDC, Vijayawada, Andhra Pradesh
3	One week workshop on “PLC Training” in association with APSSDC	Workshop	09-09-2024 to 14-09-2024	Mr. B. Mahidhar, Trainer, APSSDC, Vijayawada, Andhra Pradesh
4	Adjudicator for SAMKALP-2K24	Technical Symposium	27-09-2024 to 28-09-2024	Dr.Venka Dega Rajaji, ANU,Guntur
5	Guest lecture on "Noval Operation and control techniques for Grid connected renewable energy systems"	Guest Lecture	21-08-2024	Dr.Venka Dega Rajaji, ANU,Guntur
6	“ Careers in Privacy”	Career Talk	08-06-2024	Supreet Panigrahi, Senior Manager, Privacy Control Assurance Standard Charted Bank

7	"Data Analytics and AI Application and Learning Models"	Career Talk	27-06-2024	Vipul Jhun jhunwala, Senior Manager, Data Analytics and AI, SAP
8	"Evaluation of AI and its Impacts"	Career Talk	05-07-2024	Badrinath Nukala, Associate Consultant, KPMG
9	"Data Engineering and Careers"	Career Talk	13-07-2024	Aravind Ramachandran, Senior Manager, Tredence
10	"Essential Skills for Industry Success"	Career Talk	20-07-2024	Valmik Sangale, General Manager, MAGNA
11	"Orientation on Hackathon"	Awareness Session	27-07-2024	Mr. Sridhar Arumugasamy, Director, Six Phrase
12	"Innovate to Win: Idea Generation & Execution Strategies for Smart India Hackathon Success"	Awareness Session	19-02-2023	Mr. N. Venkata Reddy, CEO, Techteam Solutions
13	"Process Mining and Career Opportunities"	Webinar	22-10-2024	Poornima Dhall, Lead Partner Manager, Academic Alliance, Cellonis
14	"Kick Start with Cybersecurity"	Webinar	29-10-2024	Umakanth Tripathi, Director, Cyber Security, LTIMindtree
15	"Process Mining and Career Opportunities"	Webinar	03-12-2024	Poornima Dhall, Lead Partner Manager, Academic Alliance, Celonis
16	"Building Skills and Sharpening it- How to develop a skill"	Career Talk	12-12-2024	Sunil Sonare, Chief Technology Officer, Tech4 logic
17	"Career Opportunities in the Cybersecurity Field"	Career Talk	21-12-2024	Ummed Meel, Cyber Expert-Cyber Advisory Services

18	"Building your Career in Emerging Technologies"	Career Talk	30-12-2024	Gajendra Deshpande, Founder and Managing Director, D Theta Dynamics
19	"Shaping Your Career Goals in Advanced Software Engineering"	Career Talk	08-01-2024	Parsuram Panigrahi, Senior Director of Engineering, Highradius
20	" Career in Digital Forensics & Incident Response(DFIR)	Career Talk	11-01-2025	Lt Col(Dr.) Santosh Khadsare, Chief Technology Officer(DFIR), Systools
21	"World of Digital Risk in Evolving Digital Era"	Career Talk	17-01-2025	Vinit Sinha, Chief Information Security Officer(CISCO)
22	"The AI Networking Era: Exciting Career Opportunities"	Career Talk	04-02-2025	Arun Kumar, Principal Engineer&AI/ML Leader, Juniper
23	"Ansys Academic Program-Developing the Next Generation of Engineers"	Career Talk	05-02-2025	Abhimanyu Singh, Technical Leader – Academic (India and ASEAN), ANSYS
24	Guest lecture on "Emerging technologies"	Guest Lecture	20-10-2023	Dr. Y.S. Kishore Babu Professor of EEE & HOD, UCEN, JNTUK, Narasaraopet.

Fig: 4.5.1d: Five-Day Workshop on Internet of Things (IoT) in association with APSSDC

Fig: 4.5.1e: Technical Symposium “SAMKALP2K24”

Fig: 4.5.1f: Guest lecture on "Noval Operation and control techniques for Grid connected renewable energy systems"

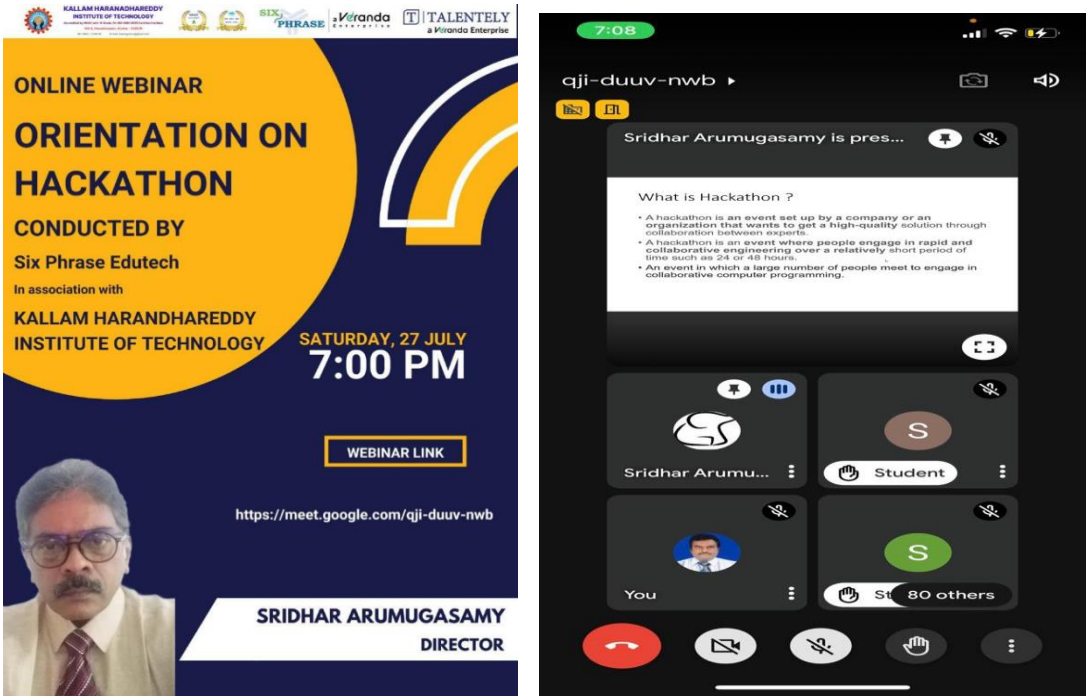


Fig: 4.5.1g: Online Webinar Orientation on Hackathon conducted by Six Phrase Edutech

CAYm1: 2023-24

S. No	Name of the Event organized	Event Type	Date	Resource Person with Affiliation
1	A Three Day Workshop-2024 "PCB Design"in assosciation with APSSDC	Workshop	23.01.2024 to 25.01.2024	Mr. B. Mahidhar, Trainer, APSSDC, Vijayawada, Andhra Pradesh
2	A Three Day Workshop-2024 "PCB Design"in assosciation with APSSDC	Workshop	08.01.2024 to 10.01.2024	Mr. B. Mahidhar, Trainer, APSSDC, Vijayawada, Andhra Pradesh
3	One week workshop on "SCADA Training" in assosciation with APSSDC	Workshop	05.06.2023 to 10.06.2023	Mr. B. Mahidhar, Trainer, APSSDC, Vijayawada, Andhra Pradesh
4	Adjudicator for SAMKALP-2K23	Technical Symposium	22.09.2023 to 23.09.2023	Dr.Ch.Punya Sekhar, ANU,Guntur
5	Guest Lecture on"Opportunities for Electrical & Electronics Engineers in IT Sector"	Guest Lecture	9.09.2023	Dr.Ch.Punya Sekhar, ANU,Guntur
6	"Career Pathways in RPA Technologies and Future Prospects"	Career Talk	30-06-2023	Vishnu Vardhan, RPA Solution Architect, Qualesce
7	"Harnessing Hackathons: Your Pathway to Top Placements"	Awareness Session	13-07-2023	Nallamilli Venkata Reddy. M.S(Robotics), M.B.A Founder - CEO, Techybot and Vihanga Electrix Visakhapatnam
8	"Career Opportunities in Govt. Sector"	Career Talk	27-07-2023	Salil Agarwal, Project Manager, BHEL

9	"Awareness Program on Zscaler Zero Trust Cloud Security Virtual Intership Future Career Opportunities and Scope"	Career Talk	09-08-2023	Abhir Naik, Senior Academic Content Developer and Trainer, ZAAP, Zscaler
10	"Careers in Cyber Security"	Career Talk	30-09-2023	Vikas Goyal, Sr. Director-IT Security, FIS Global
11	"Careers in Data Analytics Process Automation"	Career Talk	05-10-2023	Dhaval Doshi, Assistant Vice President, JP Morgan Chase & Co
12	"Cracking the Code Alteryx Expert Insights and Certification Tips"	Career Talk	19-10-2023	Subrath Das, Associate Vice President Analytics, IMO
13	" Careers in Hyper Automation RPA"	Career Talk	28-10-2023	Sarthak Das, Intelligent Automation Manager, Pepsico
14	"Structural Design Technical Session"	Career Talk	02-11-2023	Suvam Chatterjee, Education Consultant, Bently Education
15	"Cloud Computing and Introduction to AWS"	Career Talk	04-11-2023	Raj Chilakapati, Chief Evangelist, Minfy
16	"5G and AI in Cyber Security will Revolutionize the next Decade Job Landscape"	Career Talk	11-11-2023	Dr. Debabrata Naik, Head of Cyber Security, Ericsson
17	"Campus to Corporate: What the Industry Demands"	Awareness Session	14-12-2023	Dasari. Sai Prem Charan Data Engineer, Hexaware Private Ltd
18	"Role of Product Technical Knowledge in Shaping Allegiance and Brand Success"	Career Talk	16-12-2023	Siddharth Agarwal, Head of Information Development, Newgen Software

19	“Cyber Security and the Future”	Career Talk	18-12-2023	Usman Ahmed, technical Head, Cyber Security, Thales
20	"Corporate Readiness: Bridging Academics and Professional Success"	Awareness Session	21-12-2023	Namala Harshavardhan,HTC Global Services pvt ltd
21	"The Career Shift: Preparing for Corporate Excellence"	Awareness Session	03-02-2024	Abhishek Doijode, Campus Hiring, University relations, Virtusa
22	“Shaping Your Future in Cloud Technology”	Career Talk	10-02-2024	Shubam Nigam, Associate Principal Engineer, Nagarro
23	"Unlocking Potential: Transitioning Smoothly to the Corporate Sphere"	Awareness Session	15-02-2024	N. Vasishta, Data Engineer,Hexaware Private Ltd
24	“ Career in Technical Writing”	Career Talk	24-02-2024	Siddarth Aggarwal, Head of Information Development, NEWGEN
25	“Empowering Women in Tech: Inside AWS Data Centers in India”	Webinar	03-04-2024	Amazon Web Services
26	“Career in Cloud Technologies”	Webinar	27-04-2024	Samir Pradhan, Senior Technical Architect, VIAPLUS
27	“Future Proof Your Engineering Career with AI and Generative AI”	Career Talk	15-05-2024	Kiran Chandaka, Vice President, State Street
28	“Careers in Data Analytics Process Automation”	Career Talk	16-05-2024	Dhaval Doshi, Assistant Vice President, JP Morgan Chase&Co
29	“Career Opportunities in Robotics Process	Career Talk	31-05-2024	Pramit Mall, Senior Technology Specialist, Tesco

	Automation"			
30	Guest lecture on "Electrical Vehicles"	Guest Lecture	10-07-2023	Dr. Y.S. Kishore Babu Professor of EEE & HOD, UCEN, JNTUK, Narasaraopet.

Fig: 4.5.1h: A Three Day Workshop-2024 "PCB Design" in association with APSSDC

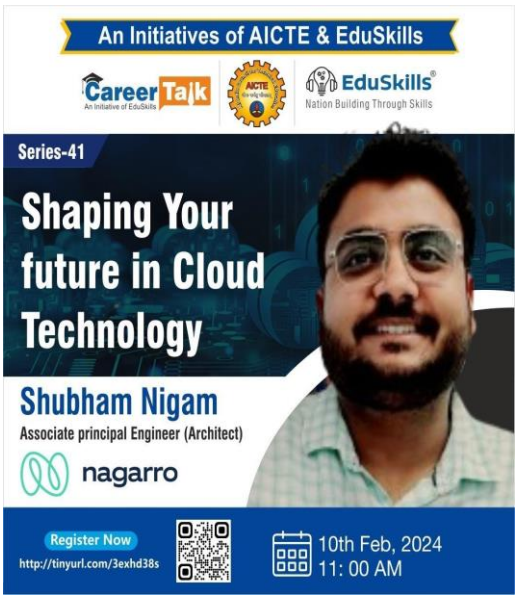


Fig: 4.5.1i: A online webinar orientation program on "Shaping your future in Cloud Technology"

CAYm2: 2022-23

S. No	Name of the Event organized	Event Type	Date	Resource Person with Affiliation
1	One week workshop on "HOME Automation" in assosciation with APSSDC	Workshop	13.06.2022 TO 18.06.2022	Mr. B. Mahidhar, Trainer, APSSDC, Vijayawada, Andhra Pradesh
2	A Three Day Workshop-2024 "PCB Design"in assosciation with APSSDC	Workshop	12.09.2022 TO 17.09.2022	Mr. B. Mahidhar, Trainer, APSSDC, Vijayawada, Andhra Pradesh
3	One week workshop on "SCADA Training" in assosciation with APSSDC	Workshop	02.01.2023 TO 07.01.2023	Mr. B. Mahidhar, Trainer, APSSDC, Vijayawada, Andhra Pradesh
4	Adjudicator for SAMKALP-2K22	Technical Symposium	22.04.2022 to 23.04.2022	Dr. CH. Nagaraja Kumari, Professor, Guru Nanak Institute of Technology, Hyderabad
5	Guest Lecture on "Electrical Traction"	Guest Lecture	8.07.2022	Dr. CH. Nagaraja Kumari, Professor, Guru Nanak Institute of Technology, Hyderabad
6	" Celonis Skilling Trends Trajectories and Career Opportunity in Infosys"	Career Talk	22-07-2022	1 Ngoc Anh Ngo,Academic Alliance Manager, Celonis 2 Hodson Mc Farland, Associate Client Engagement Manager, Infosys
7	"Career Opportunities with Juniper Networks"	Career Talk	01-08-2022	Pawan Mellacheruvu, Technical Training Consultant, Juniper Networks
8	"Salesforce Internship & Future Skills Prime"	Awareness Session	12-08-2022	Satish Datla Deputy Director NASSCOM – Futureskills prime

9	“Cyber Security Awareness Programme on Countering Cyber Attacks & Cyber Frauds”	Awareness Session	07-09-2022	Mr. Vedant Narayan CERT-In, Delhi
10	"Nationwide Placement Success: Tips and Techniques"	Awareness Session	19-02-2023	Mr. N. Venkata Reddy, CEO, Techteam Solutions
11	"Winning Tactics for Placement Exams Across India"	Awareness Session	23-10-2022	Mr. V. Sreenivasa Reddy, Senior Recruitment Manager and Location Head, Vijayawada, Tech Mahindra Ltd.
12	"Navigating the Path: Classroom Lessons to Corporate Success"	Awareness Session	15-07-2022	Amit Saha, Deputy Director ExceLR, Bangalore
13	“The Career Shift: Preparing for Corporate Excellence"	Awareness Session	16-03-2023	P. Uday Teja, Software Engineer, HCL
14	“Career Opportunities in Synechron”	Career Talk	27-05-2023	Ranjana Sagar, Associate Director(Recruitment), Synechron
15	Guest Lecture on A Comparative Analysis of Electrical Traction Systems for Modern Metros	Guest Lecture	10-11-2021	Dr. Y.S. Kishore Babu Professor of EEE & HOD, UCEN, JNTUK, Narasaraopet.
16	Guest Lecture on Entrepreneurial Opportunities in Electrical Engineering	Guest Lecture	07-04-2021	Dr. Y.S. Kishore Babu Professor of EEE & HOD, UCEN, JNTUK, Narasaraopet.

Fig: 4.5.1j: Technical Symposium "SAMKALP2K23"

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

Table B.4.5.2: Details of Publication Units

S. No	Publication type	Name of Publication	Frequency	Editorial Board
1	Newsletter	EEE-AMPACITY	Quarterly	**Chief Editor**: Dr. K. Hari Krishna, Professor, HOD, EEE **Editors**: Dr. G. Kishor Babu, Professor, EEE Dr. P.P. Sharma, Professor, EEE **Faculty Members**: Mr. M. V. N. Murthy, Asst. Prof., EEE, Mr. J. Sunil Babu, Asst. Prof., EEE. **Student Members**: Govindu Sravya (IV-EEE), SK. Khadar Basha (III-EEE), Koppolu Mahesh (II-EEE).

2	Magazine	TECHNOLOID	Yearly	**Chief Editor**: Dr. K. Hari Krishna, Professor, HOD, EEE **Editors**: Dr. G. Kishor Babu, Professor, EEE Dr. P.P. Sharma, Professor, EEE **Faculty Members**: Mr. M. V. N. Murthy, Asst. Prof., EEE, Mr. J. Sunil Babu, Asst. Prof., EEE. **Student Members**: Govindu Sravya (IV-EEE), SK. Khadar Basha (III-EEE),Koppolu Mahesh (II-EEE).

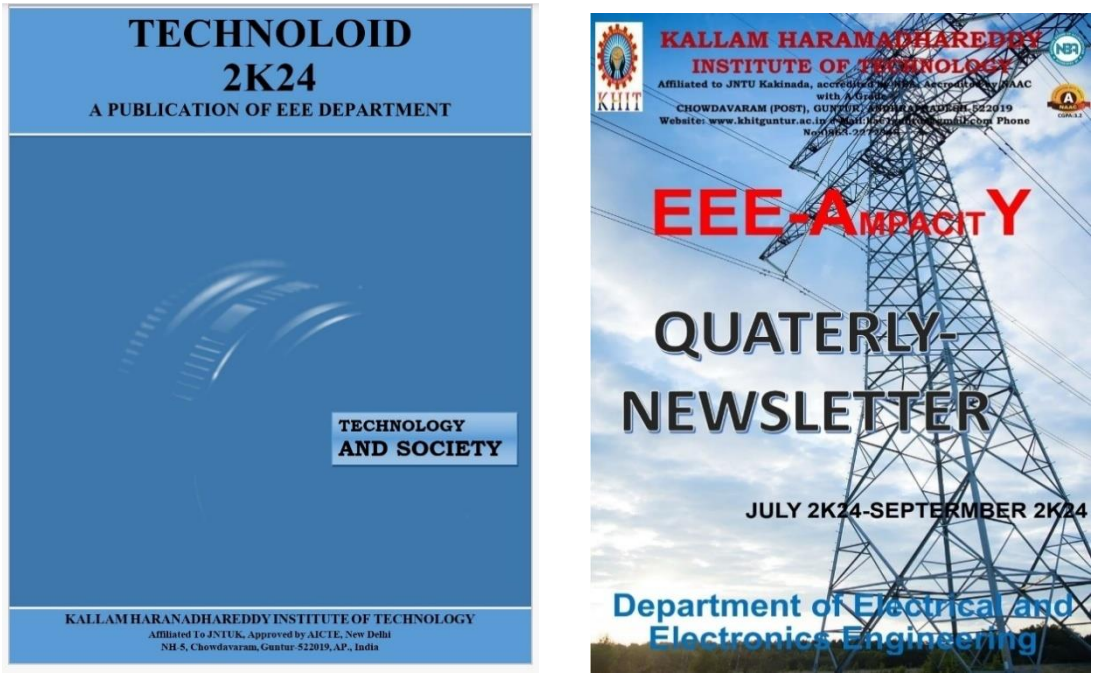


Fig 4.5.2: Latest editions of Magazine and Newsletter

4.5.3 Participation in Inter-Institute events by students of the program of study (10)

Table B.4.5.3: Summary of student participation

S. No	Particulars	2024-25	2023-24	2022-23
1	**Technical Events**	76	72	70

Technical Events

CAY: 2024-25

S. No.	Roll No.	Name of the Student	Name of the Event	Event Dates	Name of the Organizing Inst.	Award / Participation
1	218X1A0201	Adapa Mani Krishna	Technical Quiz	Innovation Day, October 15, 2024	MIC College of Technology	Participation
2	218X1A0202	Beluguri Venkata Krishna Vinay	Paper Presentation	Udghosh 2k24,16 & 17 Feb 2024	Chalapathi Institute of Technology	Participation
3	218X1A0204	Gaddam Kavitha	Technical Quiz	Samkalp2k24 -27 & 28 Sep 2024	Kallam Haranadhareddy Institute of Technology	Participation
4	218X1A0206	Govindu Sravya	Technical Quiz	Innovation Day, October 15, 2024	MIC College of Technology	Participation
5	218X1A0210	Kotha Venkata Ramya	Technical Quiz	Innovation Day, October 15, 2024	MIC College of Technology	3rd Prize
6	218X1A0215	Parimi Sudhakar	Technical Quiz	Samkalp2k24 -27 & 28 Sep 2024	Kallam Haranadhareddy Institute of Technology	Participation
7	218X1A0217	Rupanaguntla Lakshmi Hanuma Santhoshini	Technical Quiz	Samkalp2k24 -27 & 28 Sep 2024	Kallam Haranadhareddy Institute of Technology	2nd Prize
8	218X1A0221	Siddhavatam Hemanth	Paper Presentation	Udghosh 2k24,16 & 17 Feb 2024	Chalapathi Institute of Technology	Participation
9	218X1A0223	Veerisetty Thilak Kumar	Technical Quiz	Innovation Day, October 15, 2024	MIC College of Technology	Participation
10	218X1A0225	Jatothu Bhuvaneswari Bai	Paper Presentation	Samkalp2k24 -27 & 28 Sep 2024	Kallam Haranadhareddy Institute of Technology	Participation

11	218X1A0226	Pathlavath Madhavi Bai	Technical Quiz	Samkalp2k24 -27 & 28 Sep 2024	Kallam Haranadhareddy Institute of Technology	Participation
12	228X5A0202	Chatarajupalli Vaishnavi	Paper Presentation	Samkalp2k24 -27 & 28 Sep 2024	Kallam Haranadhareddy Institute of Technology	1st Prize
13	228X5A0204	Dundi Gangadhar Reddy	Paper Presentation	Innovation Day, October 15, 2024	MIC College of Technology	Participation
14	228X5A0205	Gangavarapu Sangeetha	Technical Quiz	Innovation Day, October 15, 2024	MIC College of Technology	Participation
15	228X5A0208	Induri Venkatesh	Project Expo	Samkalp2k24 -27 & 28 Sep 2024	Kallam Haranadhareddy Institute of Technology	1st Prize
16	228X5A0210	Jakkampudi Issac Paul	Paper Presentation	Samkalp2k24 -27 & 28 Sep 2024	Kallam Haranadhareddy Institute of Technology	Participation
17	228X5A0212	Kanchukommula Nagababu	Paper Presentation	Udghosh 2k24,16 & 17 Feb 2024	Chalapathi Institute of Technology	Participation
18	228X5A0214	Katta Komali	Technical Quiz	Samkalp2k24 -27 & 28 Sep 2024	Kallam Haranadhareddy Institute of Technology	Participation
19	228X5A0215	Kondeti Praneeth	Technical Quiz	Innovation Day, October 15, 2024	Mic College of Technology	Participation
20	228X5A0219	Muragondi Venkata Subrahmanyam	Project Expo	Samkalp2k24 -27 & 28 Sep 2024	Kallam Haranadhareddy Institute of Technology	1st Prize
21	228X5A0222	Pasupuleti Venkatesh	Paper Presentation	Samkalp2k24 -27 & 28 Sep 2024	Kallam Haranadhareddy Institute of Technology	Participation
22	228X5A0223	Pattapuraju Kiranmai	Paper Presentation	Samkalp2k24 -27 & 28 Sep 2024	Kallam Haranadhareddy Institute of	1st Prize

					Technology	
23	228X5A0227	Saikam Yaswanth Varma	Paper Presentation	Udghosh 2k24,16 & 17 Feb 2024	Chalapathi Institute of Technology	Participation
24	228X5A0229	Shaik Sehan Arif	Technical Quiz	Innovation Day, October 15, 2024	MIC College of Technology	Participation
25	228X5A0232	Alla Srinu	Paper Presentation	Samkalp2k24 -27 & 28 Sep 2024	Kallam Haranadhareddy Institute of Technology	Participation
26	218X1A0211	Naru Ramanji Reddy	Technical Quiz	Samkalp2k24 -27 & 28 Sep 2024	Kallam Haranadhareddy Institute of Technology	Participation
27	228X1A0202	Allacheruvu Prashanth	Paper Presentation	Innovation Day, October 15, 2024	MIC College of Technology	Participation
28	228X1A0208	Changalsetty Naga Sai Ganesh	Paper Presentation	Udghosh 2k24,16 & 17 Feb 2024	Chalapathi Institute of Technology	Participation
29	228X1A0210	Dudekula Roshan Basha	Technical Quiz	Samkalp2k24 -27 & 28 Sep 2024	Kallam Haranadhareddy Institute of Technology	Participation
30	228X1A0212	Gaddam Shankari	Technical Quiz	Innovation Day, October 15, 2024	MIC College of Technology	Participation
31	228X1A0216	Sai Phanindra Gowra	Paper Presentation	Samkalp2k24 -27 & 28 Sep 2024	Kallam Haranadhareddy Institute of Technology	Participation
32	228X1A0220	Soma Pavan Manoj	Paper Presentation	Udghosh 2k24,16 & 17 Feb 2024	Chalapathi Institute of Technology	Participation
33	228X1A0223	Tullimilli Niteesh	Technical Quiz	Samkalp2k24 -27 & 28 Sep 2024	Kallam Haranadhareddy Institute of Technology	Participation
34	228X1A0224	Vadithe Nagaraju Naik	Paper Presentation	Innovation Day, October 15, 2024	MIC College of Technology	Participation
35	228X1A0230	Shaik	Technic	Innovation	MIC College	Participation

		Abdul Mukhitd	al Quiz	Day, October 15, 2024	of Technology	
36	238X5A0203	Bejjam Vijay	Paper Presentation	Samkalp2k24 -27 & 28 Sep 2024	Kallam Haranadhareddy Institute of Technology	Participation
37	238X5A0208	Palagiri Arshiya	Paper Presentation	Udghosh 2k24,16 & 17 Feb 2024	Chalapathi Institute of Technology	Participation
38	238X5A0210	Peeram Yaseswini	Technical Quiz	Samkalp2k24 -27 & 28 Sep 2024	Kallam Haranadhareddy Institute of Technology	Participation
39	238X5A0215	Tegada Gayathri	Paper Presentation	Samkalp2k24 -27 & 28 Sep 2024	Kallam Haranadhareddy Institute of Technology	Participation
40	238X5A0222	Sidde Lakshmi Venkata Bhupal	Paper Presentation	Udghosh 2k24,16 & 17 Feb 2024	Chalapathi Institute of Technology	Participation
41	238X5A0225	Makkena Raj Kumar	Technical Quiz	Innovation Day, October 15, 2024	MIC College of Technology	Participation
42	238X1A0203	Byreddy Venkata Rami Reddy	Technical Quiz	Samkalp2k24 -27 & 28 Sep 2024	Kallam Haranadhareddy Institute of Technology	Participation
43	238X1A0206	Ganapa Bharath Reddy	Paper Presentation	Samkalp2k24 -27 & 28 Sep 2024	Kallam Haranadhareddy Institute of Technology	Participation
44	238X1A0208	Kommisetty Pavana Jyothi	Technical Quiz	Samkalp2k24 -27 & 28 Sep 2024	Kallam Haranadhareddy Institute of Technology	Participation
45	238X1A0210	Maddhuri Premchand	Paper Presentation	Samkalp2k24 -27 & 28 Sep 2024	Kallam Haranadhareddy Institute of Technology	Participation
46	238X1A0213	Shaik Asif	Technical Quiz	Innovation Day, October 15, 2024	MIC College of Technology	Participation

47	238X1A0216	Boggu Ravi Teja	Technical Quiz	Samkalp2k24 -27 & 28 Sep 2024	Kallam Haranadhareddy Institute of Technology	Participation
48	238X1A0219	Valluru Venkata Saikiran	Paper Presentation	Udghosh 2k24,16 & 17 Feb 2024	Chalapathi Institute of Technology	Participation
49	248X5A0203	Bathula Vinay Babu	Paper Presentation	Innovation Day, October 15, 2024	MIC College of Technology	Participation
50	248X5A0206	Gangu Hemantharao	Technical Quiz	Samkalp2k24 -27 & 28 Sep 2024	Kallam Haranadhareddy Institute of Technology	Participation
51	248X5A0208	Kanakam Pradeepkumar	Paper Presentation	Udghosh 2k24,16 & 17 Feb 2024	Chalapathi Institute of Technology	Participation
52	248X5A0211	Midathana Naresh Kumar	Paper Presentation	Samkalp2k24 -27 & 28 Sep 2024	Kallam Haranadhareddy Institute of Technology	Participation
53	248X5A0217	Shaik Nagul Shareef	Technical Quiz	Samkalp2k24 -27 & 28 Sep 2024	Kallam Haranadhareddy Institute of Technology	Participation
54	248X5A0219	Sonti Sridhar	Technical Quiz	Innovation Day, October 15, 2024	MIC College of Technology	Participation
55	248X5A0223	Thumati Manohar	Paper Presentation	Udghosh 2k24,16 & 17 Feb 2024	Chalapathi Institute of Technology	Participation
56	248X5A0226	Vemula Charan	Paper Presentation	Samkalp2k24 -27 & 28 Sep 2024	Kallam Haranadhareddy Institute of Technology	Participation
57	248X5A0228	Yele Prakash	Paper Presentation	Innovation Day, October 15, 2024	MIC College of Technology	Participation
58	248X5A0231	Nimmala Reshma	Technical Quiz	Samkalp2k24 -27 & 28 Sep 2024	Kallam Haranadhareddy Institute of Technology	Participation
59	218X1A0225	Jatothu	Paper	Vignan’s	Vignan's	Participation

		Bhuvaneswari Bai	Presentation	Mahotsav 2024, 01-02-2024 To 03-02-2024	Foundation For Science, Technology & Research, Guntur	
60	218X1A0226	Pathlavath Madhavi Bai	Paper Presentation	Vignan's Mahotsav 2024, 01-02-2024 To 03-02-2024	Vignan's Foundation For Science, Technology & Research, Guntur	Participation
61	228X5A0202	Chatarajupalli Vaishnavi	Paper Presentation	Vignan's Mahotsav 2024, 01-02-2024 To 03-02-2024	Vignan's Foundation For Science, Technology & Research, Guntur	Participation
62	238X5A0208	Palagiri Arshiya	Paper Presentation	Vignan's Mahotsav 2024, 01-02-2024 To 03-02-2024	Vignan's Foundation For Science, Technology & Research, Guntur	Participation
63	238X5A0210	Peeram Yaseswini	Technical Quiz	Vignan's Mahotsav 2024, 01-02-2024 To 03-02-2024	Vignan's Foundation For Science, Technology & Research, Guntur	Participation
64	238X5A0215	Tegada Gayathri	Technical Quiz	Vignan's Mahotsav 2024, 01-02-2024 To 03-02-2024	Vignan's Foundation For Science, Technology & Research, Guntur	Participation
65	218X1A0203	Ch. Lokesh	Paper Presentation	Medhanvesh 2k24, 22-03-2024 To 23-03-2024	B. V. Raju Institute of Technology, Bhimavaram	1st Prize
66	228X5A0224	P. Gopi	Paper Presentation	Medhanvesh 2k24, 22-03-2024 To 23-03-2024	B. V. Raju Institute of Technology, Bhimavaram	1st Prize
67	248X5A0231	Nimmala	Technic	Medhanvesh	B. V. Raju	Partici

		Reshma	al Quiz	2k24, 22-03-2024 To 23-03-2024	Institute of Technology, Bhimavaram	pation
68	218X1A0204	Gaddam Kavitha	Technical Quiz	Medhanvesh 2k24, 22-03-2024 To 23-03-2024	B. V. Raju Institute of Technology, Bhimavaram	Participation
69	218X1A0202	Beluguri Venkata Krishna Vinay	Paper Presentation	Viva Vvit 2k24, 21-12-24 To 24-12-24	VVIT,Nambur	Participation
70	218X1A0204	Gaddam Kavitha	Technical Quiz	Viva Vvit 2k24, 21-12-24 To 24-12-24	VVIT,Nambur	Participation
71	218X1A0206	Govindu Sravya	Technical Quiz	Viva Vvit 2k24, 21-12-24 To 24-12-24	VVIT,Nambur	Participation
72	218X1A0210	Kotha Venkata Ramya	Technical Quiz	Viva Vvit 2k24, 21-12-24 To 24-12-24	VVIT,Nambur	Participation
73	228X1A0204	A.V.S.S.Kousalya	Posto Preso	Vidyut Tarang-2024, 28-12-2024	R.V.R & J.C College of Engineering, Chowdavaram	Participation
74	238X5A0208	P.Arshiya	Posto Preso	Vidyut Tarang-2024, 28-12-2024	R.V.R & J.C College of Engineering, Chowdavaram	Participation
75	238X5A0210	P.Yaseswini	Posto Preso	Vidyut Tarang-2024, 28-12-2024	R.V.R & J.C College of Engineering, Chowdavaram	Participation
76	238X5A0215	T.Gayathri	Posto Preso	Vidyut Tarang-2024, 28-12-2024	R.V.R & J.C College of Engineering, Chowdavaram	Participation

CAYm1: 2023-24

S. No.	Roll No.	Name of the Student	Name of the Event	Event Dates	Name of the Organizing Inst.	Award / Participation
1	208X1A0202	Bathula Sri Manikanta	Paper Presentation	Explorers Meet-2k24, 6 & 7 March 2024	SRK Institute of Technology	Participation
2	208X1A0203	Bathula Tejasri	Technical Quiz	Samkalp2k23,22 & 23 Oct 2023	Kallam Haranadhareddy Institute of Technology	1st Prize
3	208X1A0204	Bellamkonda Deepthi	Paper Presentation	Samkalp2k23,22 & 23 Oct 2023	Kallam Haranadhareddy Institute of Technology	2nd Prize
4	208X1A0207	Busi Venkata Bhanu Prakash Reddy	Paper Presentation	Vignan's Mahotsav 2023, 15-02-2023 To 17-02-2023	Vignan's Foundation For Science, Technology & Research, Guntur	Participation
5	208X1A0209	Chirra Mounika	Paper Presentation	Explorers Meet-2k24, 6 & 7 March 2024	SRK Institute of Technology	2nd Prize
6	208X1A0211	Gajula Srilakshmi	Paper Presentation	Aagama2024, 16 Th March 2024	MIC College of Technology	Participation
7	208X1A0213	Guntu Kalyani	Paper Presentation	Samkalp2k23,22 & 23 Oct 2023	Kallam Haranadhareddy Institute of Technology	2nd Prize
8	208X1A0218	Karna Venkatakrishna	Paper Presentation	Samkalp2k23,22 & 23 Oct 2023	Kallam Haranadhareddy Institute of Technology	Participation
9	208X1A0226	Naru Karthik	Technical Quiz	Samkalp2k23,22 & 23	Kallam Haranadhare	1st Prize

		Reddy		Oct 2023	ddy Institute of Technology	
10	208X1A0228	Onteddu Hari Priya	Paper Presentation	Explorers Meet-2k24, 6 & 7 March 2024	SRK Institute of Technology	Participation
11	208X1A0232	Ranganapalem Lavanya Vijaya Lakshmi	Paper Presentation	Samkalp2k23,22 & 23 Oct 2023	Kallam Haranadhareddy Institute of Technology	Participation
12	208X1A0236	Shaik Sameer Basha	Paper Presentation	Aagama2024, 16 Th March 2024	MIC College of Technology	1st Prize
13	208X1A0239	Thontla Nagarjuna Reddy	Paper Presentation	Vignan's Mahotsav 2023, 15-02-2023 To 17-02-2023	Vignan's Foundation For Science, Technology & Research, Guntur	Participation
14	218X5A0202	Jinkala Pavan Kalyan	Paper Presentation	Explorers Meet-2k24, 6 & 7 March 2024	SRK Institute of Technology	2nd Prize
15	218X5A0204	Kollipaka John Deva Prabhudas	Paper Presentation	Samkalp2k23,22 & 23 Oct 2023	Kallam Haranadhareddy Institute of Technology	3rd Prize
16	218X5A0209	Sesham Uma Maheswara Rao	Paper Presentation	Aagama2024, 16 Th March 2024	MIC College of Technology	Participation
17	218X5A0213	Sk Mobina Apsara	Paper Presentation	Samkalp2k23,22 & 23 Oct 2023	Kallam Haranadhareddy Institute of Technology	3rd Prize
18	218X1A0201	Adapa Mani Krishna	Technical Quiz	Samkalp2k23,22 & 23 Oct 2023	Kallam Haranadhareddy Institute of Technology	2nd Prize

19	218X1A0205	Gopu Trinadh	Paper Presentation	Explorers Meet-2k24, 6 & 7 March 2024	SRK Institute of Technology	Participation
20	218X1A0209	Kalisetty Prem Chand	Technical Quiz	Explorers Meet-2k24, 6 & 7 March 2024	SRK Institute of Technology	Participation
21	218X1A0215	Parimi Sudhakar	Paper Presentation	Aagama2024, 16 Th March 2024	MIC College of Technology	Participation
22	218X1A0217	Rupanagunta Lakshmi Hanuma Santhoshini	Paper Presentation	Vignan's Mahotsav 2023, 15-02-2023 To 17-02-2023	Vignan's Foundation For Science, Technology & Research, Guntur	Participation
23	218X1A0223	Veerisetty Thilak Kumar	Technical Quiz	Explorers Meet-2k24, 6 & 7 March 2024	SRK Institute of Technology	3rd Prize
24	218X1A0226	Pathlavath Madhavi Bai	Technical Quiz	Samkalp2k23,22 & 23 Oct 2023	Kallam Haranadhareddy Institute of Technology	2nd Prize
25	228X5A0202	Chatarajupalli Vaishnavi	Technical Quiz	Samkalp2k23,22 & 23 Oct 2023	Kallam Haranadhareddy Institute of Technology	Participation
26	228X5A0204	Dundi Gangadhar Reddy	Technical Quiz	Samkalp2k23,22 & 23 Oct 2023	Kallam Haranadhareddy Institute of Technology	Participation
27	228X5A0207	Gollapalli Uma Manikanta	Paper Presentation	Aagama2024, 16 Th March 2024	MIC College of Technology	1st Prize
28	228X5A0211	Kakumanu Pradeep Kumar	Technical Quiz	Explorers Meet-2k24, 6 & 7 March 2024	SRK Institute of Technology	Participation
29	228X5A0215	Kondeti	Technic	Samkalp2k2	Kallam	Particip

		Praneeth	al Quiz	3,22 & 23 Oct 2023	Haranadhareddy Institute of Technology	ation
30	228X5A0217	Marella Rohit	Technical Quiz	Aagama2024, 16 Th March 2024	MIC College of Technology	Participation
31	228X5A0224	Porumamilla Gopi	Paper Presentation	Vignan's Mahotsav 2023, 15-02-2023 To 17-02-2023	Vignan's Foundation For Science, Technology & Research, Guntur	Participation
32	228X5A0227	Saikam Yaswanth Varma	Technical Quiz	Explorers Meet-2k24, 6 & 7 March 2024	SRK Institute of Technology	Participation
33	228X5A0231	Vankayalpati Bala Raju	Technical Quiz	Aagama2024, 16 Th March 2024	MIC College of Technology	3rd Prize
34	218X1A0211	Naru Ramanji Reddy	Technical Quiz	Samkalp2k2 3,22 & 23 Oct 2023	Kallam Haranadhareddy Institute of Technology	Participation
35	228X1A0202	Allacheruvu Prashanth	Technical Quiz	Samkalp2k2 3,22 & 23 Oct 2023	Kallam Haranadhareddy Institute of Technology	Participation
36	228X1A0205	Andugulapati Prasanna	Paper Presentation	Aagama2024, 16 Th March 2024	MIC College of Technology	Participation
37	228X1A0208	Changalsetty Naga Sai Ganesh	Technical Quiz	Samkalp2k2 3,22 & 23 Oct 2023	Kallam Haranadhareddy Institute of Technology	Participation
38	228X1A0210	Dudekula Roshan Basha	Technical Quiz	Explorers Meet-2k24, 6 & 7 March 2024	SRK Institute of Technology	3rd Prize
39	228X1A0219	Siva Kumar	Technical Quiz	Samkalp2k2 3,22 & 23	Kallam Haranadhare	Participation

		Battula		Oct 2023	ddy Institute of Technology	
40	228X1A0224	Vadithe Nagaraju Naik	Paper Presentation	Aagama2024, 16 Th March 2024	MIC College of Technology	Participation
41	228X1A0229	Dwarakacharla Thirupathi Reddy	Technical Quiz	Vignan's Mahotsav 2023, 15-02-2023 To 17-02-2023	Vignan's Foundation For Science, Technology & Research, Guntur	Participation
42	238X5A0201	Aratipamula Venkata Srinivasarao	Technical Quiz	Aagama2024, 16 Th March 2024	MIC College of Technology	Participation
43	238X5A0205	Dasi John Prasanth Babu	Paper Presentation	Samkalp2k23,22 & 23 Oct 2023	Kallam Haranadhareddy Institute of Technology	Participation
44	238X5A0209	Paramkusam Vijay Karthik	Technical Quiz	Aagama2024, 16 Th March 2024	MIC College of Technology	3rd Prize
45	238X5A0211	Pralayakaveri Gopi	Technical Quiz	Samkalp2k23,22 & 23 Oct 2023	Kallam Haranadhareddy Institute of Technology	Participation
46	238X5A0213	Rajineedi Sai Kumar	Paper Presentation	Samkalp2k23,22 & 23 Oct 2023	Kallam Haranadhareddy Institute of Technology	Participation
47	238X5A0215	Tegada Gayathri	Technical Quiz	Vignan's Mahotsav 2023, 15-02-2023 To 17-02-2023	Vignan's Foundation For Science, Technology & Research, Guntur	Participation
48	238X5A0217	Yarlagadda Venkata Naga Lakshman	Technical Quiz	Samkalp2k23,22 & 23 Oct 2023	Kallam Haranadhareddy Institute of	Participation

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49	238X5A0220	Nakka Dayana	Paper Presentation	Samkalp2k23,22 & 23 Oct 2023	Kallam Haranadhareddy Institute of Technology	Participation
50	238X5A0222	Sidde Lakshmi Venkata Bhupal	Technical Quiz	Aagama2024, 16 Th March 2024	MIC College of Technology	Participation
51	238X5A0224	Danaboina Devanand Raju	Paper Presentation	Aagama2024, 16 Th March 2024	MIC College of Technology	Participation
52	238X5A0226	Bommnaboyina Anil Sairam	Technical Quiz	Vignan’s Mahotsav 2023, 15-02-2023 To 17-02-2023	Vignan's Foundation For Science, Technology & Research, Guntur	Participation
53	218X1A0205	Gopu Trinadh	Blind Folded Circuits	Exousia 2k23, 05-10-2023	VVIT,Nambur	Participation
54	218X5A0209	Sesham Uma Maheswara Rao	Paper Presentation	Adyant Annual Fest, 31-03-23 To 01-04-23	Malla Reddy Engineering College.	Participation
55	218X5A0213	Sk Mobina Apsara	Paper Presentation	Adyant Annual Fest, 31-03-23 To 01-04-23	Malla Reddy Engineering College.	Participation
56	218X1A0201	Adapa Mani Krishna	Technical Quiz	Adyant Annual Fest, 31-03-23 To 01-04-23	Malla Reddy Engineering College.	Participation
57	218X1A0205	Gopu Trinadh	Paper Presentation	Adyant Annual Fest, 31-03-23 To 01-04-23	Malla Reddy Engineering College.	Participation
58	218X1A0209	Kalisetty Prem Chand	Technical Quiz	Adyant Annual Fest, 31-03-23 To 01-04-23	Malla Reddy Engineering College.	Participation
59	208X1A0203	Bathula	Paper	Adyant	Malla Reddy	Particip

		Tejasri	Presentation	Annual Fest, 31-03-23 To 01-04-23	Engineering College.	ation
60	208X1A0204	Bellamkonda Deepthi	Technical Quiz	Adyant Annual Fest, 31-03-23 To 01-04-23	Malla Reddy Engineering College.	Participation
61	208X1A0207	Busi Venkata Bhanu Prakash Reddy	Technical Quiz	Adyant Annual Fest, 31-03-23 To 01-04-23	Malla Reddy Engineering College.	Participation
62	218X5A0202	Jinkala Pavan Kalyan	Paper Presentation	Adyant Annual Fest, 31-03-23 To 01-04-23	Malla Reddy Engineering College,	Participation
63	218X5A0204	Kollipaka John Deva Prabhudas	Paper Presentation	Adyant Annual Fest, 31-03-23 To 01-04-23	Malla Reddy Engineering College	Participation
64	218X5A0209	Sesham Uma Maheswara Rao	Paper Presentation	Adyant Annual Fest, 31-03-23 To 01-04-23	Malla Reddy Engineering College	Participation
65	218X1A0206	Govindu Sravya	Paper Presentation	Adyant Annual Fest, 31-03-23 To 01-04-23	Malla Reddy Engineering College	Participation
66	218X1A0208	Jaswanth Guntupalli	Technical Quiz	Vignan’s Mahotsav 2023, 15-02-2023 To 17-02-2023	Vignan's Foundation For Science, Technology & Research, Guntur	Participation
67	218X1A0209	Kalisetty Prem Chand	Paper Presentation	Vignan’s Mahotsav 2023, 15-02-2023 To 17-02-2023	Vignan's Foundation For Science, Technology & Research, Guntur	Participation
68	218X1A0210	Kotha Venkata Ramya	Technical Quiz	Vignan’s Mahotsav 2023, 15-02-2023 To 17-	Vignan's Foundation For Science, Technology	Participation

				02-2023	& Research, Guntur	
69	228X5A0213	Karanki Sai Teja	Paper Presentation	Vignan's Mahotsav 2023, 15-02-2023 To 17-02-2023	Vignan's Foundation For Science, Technology & Research, Guntur	Participation
70	228X5A0214	Katta Komali	Technical Quiz	Vignan's Mahotsav 2023, 15-02-2023 To 17-02-2023	Vignan's Foundation For Science, Technology & Research, Guntur	Participation
71	238X5A0224	Danaboina Devanand Raju	Paper Presentation	Vignan's Mahotsav 2023, 15-02-2023 To 17-02-2023	Vignan's Foundation For Science, Technology & Research, Guntur	Participation
72	238X5A0225	Makkena Raj Kumar	Paper Presentation	Vignan's Mahotsav 2023, 15-02-2023 To 17-02-2023	Vignan's Foundation For Science, Technology & Research, Guntur	Participation

CAYm2: 2022-23

S. No.	Roll No.	Name of the Student	Name of the Event	Event Dates	Name of the Organizing Inst.	Award / Participation
1	198X1A0203	Challa Jeevithesh	Technical Quiz	Samkalp2k24-22 & 23 April 2022	Kallam Haranadhareddy Institute of Technology	Participation
2	198X1A0205	Chimata Ajay Kumar	Paper Presentation	Sparks Intelligentia 2022, 16-03-2023 To 19-03-2022	Malla Reddy Engineering College	Participation
3	198X1A0206	Dosakayala	Paper	National	MIC College	Partici

		pati Sravani	Present ation	Science Day,28 Th Feb 2023	of Technology	pation
4	198X1A0208	Goddanti Amulya	Paper Present ation	Engineers Day , 14 Th Sep 2022	Potti Sriramulu Chalavadi Mallikarjuna Rao College of Engineering & Technology	3rd Prize
5	198X1A0209	Gontla Kalpana Sri	Technic al Quiz	Samkalp2k2 4-22 & 23 April 2022	Kallam Haranadhare ddy Institute of Technology	Partici pation
6	198X1A0216	Nimmakaya la Subbareddy	Technic al Quiz	Samkalp2k2 4-22 & 23 April 2022	Kallam Haranadhare ddy Institute of Technology	Partici pation
7	198X1A0219	Polipogu Swarna Jyothi	Technic al Quiz	Samkalp2k2 4-22 & 23 April 2022	Kallam Haranadhare ddy Institute of Technology	Partici pation
8	198X1A0222	Raprolu Vaishnavi Sri Mowkthika	Paper Present ation	National Science Day,28 Th Feb 2023	MIC College of Technology	Partici pation
9	198X1A0223	Sadaraboyin a Vijaya Prasanna Kumar	Technic al Quiz	Samkalp2k2 4-22 & 23 April 2022	Kallam Haranadhare ddy Institute of Technology	Partici pation
10	198X1A0225	Shaik Sabiha	Technic al Quiz	Samkalp2k2 4-22 & 23 April 2022	Kallam Haranadhare ddy Institute of Technology	Partici pation
11	198X1A0227	Thammisett y Gopi	Paper Present ation	Sparks Intelligentia 2022, 16-03-	Malla Reddy Engineering College,	Partici pation

				2023 To 19-03-2022		
12	208X5A0201	Ajay Babu Neelam	Technical Quiz	Sparks Intelligentia 2022, 16-03-2023 To 19-03-2022	Malla Reddy Engineering College	Participation
13	208X5A0205	Dharam Surendra	Paper Presentation	National Science Day,28 Th Feb 2023	MIC College of Technology	Participation
14	208X5A0208	Maddiguntla Bhavani Shankar	Technical Quiz	Samkalp2k24-22 & 23 April 2022	Kallam Haranadhareddy Institute of Technology	1st Prize
15	208X5A0210	Raj Kumar Prathipati	Paper Presentation	Samkalp2k24-22 & 23 April 2022	Kallam Haranadhareddy Institute of Technology	1st Prize
16	208X5A0212	Sakila Venkata Sakethnath	Paper Presentation	Engineers Day , 14 Th Sep 2022	Potti Sriramulu Chalavadi Mallikarjuna Rao College of Engineering & Technology	3rd Prize
17	208X5A0214	Sangu Bala Pushpa Latha	Paper Presentation	National Science Day,28 Th Feb 2023	MIC College of Technology	Participation
18	208X5A0215	Shaik Nazmuddin	Paper Presentation	Samkalp2k24-22 & 23 April 2022	Kallam Haranadhareddy Institute of Technology	1st Prize
19	208X5A0218	Thamidala Sadasivareddy	Technical Quiz	Samkalp2k24-22 & 23 April 2022	Kallam Haranadhareddy Institute of Technology	Participation

20	208X1A0202	Bathula Sri Manikanta	Technical Quiz	Samkalp2k24-22 & 23 April 2022	Kallam Haranadhareddy Institute of Technology	2nd Prize
21	208X1A0205	Bhimi Reddy Sai Vighnesh Reddy	Paper Presentation	National Science Day,28 Th Feb 2023	MIC College of Technology	2nd Prize
22	208X1A0206	Bontha Venkata Naga Mani Krishna Achyuth	Technical Quiz	Samkalp2k24-22 & 23 April 2022	Kallam Haranadhareddy Institute of Technology	Participation
23	208X1A0208	Busireddy Mounica	Technical Quiz	National Science Day,28 Th Feb 2023	MIC College of Technology	Participation
24	208X1A0212	Gattu Sandhya Rani	Technical Quiz	Sparks Intelligentia 2022, 16-03-2023 To 19-03-2022	Malla Reddy Engineering College	Participation
25	208X1A0215	Jakkireddy Prasanna Lakshmi Reddy	Technical Quiz	Samkalp2k24-22 & 23 April 2022	Kallam Haranadhareddy Institute of Technology	Participation
26	208X1A0216	Kanamarlapudi Venkata Pavana Lakshmikumari	Technical Quiz	Sparks Intelligentia 2022, 16-03-2023 To 19-03-2022	Malla Reddy Engineering College	Participation
27	208X1A0219	Kommareddy Sambi Reddy	Paper Presentation	National Science Day,28 Th Feb 2023	MIC College of Technology	2nd Prize
28	208X1A0220	Marri Triveni	Paper Presentation	Engineers Day , 14 Th Sep 2022	Potti Sriramulu Chalavadi Mallikarjuna Rao College of Engineering	Participation

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29	208X1A0222	Mellempudi Vikram	Poster	Samkalp2k24-22 & 23 April 2022	Kallam Haranadhareddy Institute of Technology	1st Prize
30	208X1A0225	Mule Venkata Vinod Reddy	Technical Quiz	National Science Day,28 Th Feb 2023	MIC College of Technology	Participation
31	208X1A0227	Nimmala Naveen	Paper Presentation	Engineers Day , 14 Th Sep 2022	Potti Sriramulu Chalavadi Mallikarjuna Rao College of Engineering & Technology	Participation
32	208X1A0228	Onteddu Hari Priya	Technical Quiz	Samkalp2k24-22 & 23 April 2022	Kallam Haranadhareddy Institute of Technology	Participation
33	208X1A0231	Ramisetty Hemanth Kumar	Technical Quiz	Samkalp2k24-22 & 23 April 2022	Kallam Haranadhareddy Institute of Technology	Participation
34	208X1A0233	Sagabandi Lavanya	Technical Quiz	National Science Day,28 Th Feb 2023	MIC College of Technology	Participation
35	208X1A0236	Shaik Sameer Basha	Poster	Samkalp2k24-22 & 23 April 2022	Kallam Haranadhareddy Institute of Technology	1st Prize
36	208X1A0238	Tari Mahesh	Technical Quiz	Samkalp2k24-22 & 23 April 2022	Kallam Haranadhareddy Institute of Technology	Participation

37	208X1A0239	Thontla Nagarjuna Reddy	Technical Quiz	Samkalp2k24-22 & 23 April 2022	Kallam Haranadhareddy Institute of Technology	Participation
38	208X1A0241	Vottem Sanjay Kumar	Technical Quiz	Samkalp2k24-22 & 23 April 2022	Kallam Haranadhareddy Institute of Technology	Participation
39	218X5A0202	Jinkala Pavan Kalyan	Technical Quiz	Samkalp2k24-22 & 23 April 2022	Kallam Haranadhareddy Institute of Technology	Participation
40	218X5A0204	Kollipaka John Deva Prabhudas	Technical Quiz	Engineers Day , 14 Th Sep 2022	Potti Sriramulu Chalavadi Mallikarjuna Rao College of Engineering & Technology	Participation
41	218X5A0206	Orsu Sai Gowtham	Technical Quiz	Sparks Intelligentia 2022, 16-03-2023 To 19-03-2022	Malla Reddy Engineering College	Participation
42	218X5A0212	M .Manideep	Technical Quiz	National Science Day,28 Th Feb 2023	MIC College of Technology	Participation
43	218X1A0201	Adapa Mani Krishna	Technical Quiz	Samkalp2k24-22 & 23 April 2022	Kallam Haranadhareddy Institute of Technology	Participation
44	218X1A0202	Beluguri Venkata Krishna Vinay	Technical Quiz	Samkalp2k24-22 & 23 April 2022	Kallam Haranadhareddy Institute of Technology	Participation
45	218X1A0204	Gaddam	Paper	Engineers	Potti	Partici

		Kavitha	Present ation	Day , 14 Th Sep 2022	Sriramulu Chalavadi Mallikarjuna Rao College of Engineering & Technology	pation
46	218X1A0208	Jaswanth Guntupalli	Technic al Quiz	Engineers Day , 14 Th Sep 2022	Potti Sriramulu Chalavadi Mallikarjuna Rao College of Engineering & Technology	Partici pation
47	218X1A0210	Kotha Venkata Ramya	Technic al Quiz	Samkalp2k2 4-22 & 23 April 2022	Kallam Haranadhare ddy Institute of Technology	Partici pation
48	218X1A0218	Sanagapalli Gopichand	Technic al Quiz	National Science Day,28 Th Feb 2023	MIC College of Technology	Partici pation
49	218X1A0222	Tiragabattin a Neelampati Parameswar arao	Technic al Quiz	Samkalp2k2 4-22 & 23 April 2022	Kallam Haranadhare ddy Institute of Technology	Partici pation
50	218X1A0225	Jatothu Bhuvanesw ari Bai	Technic al Quiz	Samkalp2k2 4-22 & 23 April 2022	Kallam Haranadhare ddy Institute of Technology	Partici pation
51	228X5A0201	Beerakayala Hareesh	Technic al Quiz	Samkalp2k2 4-22 & 23 April 2022	Kallam Haranadhare ddy Institute of Technology	Partici pation
52	228X5A0205	Gangavarap u Sangeetha	Technic al Quiz	Engineers Day , 14 Th Sep 2022	Potti Sriramulu Chalavadi	Partici pation

					Mallikarjuna Rao College of Engineering & Technology	
53	228X5A0208	Induri Venkatesh	Paper Presentation	Engineers Day , 14 Th Sep 2022	Potti Sriramulu Chalavadi Mallikarjuna Rao College of Engineering & Technology	Participation
54	228X5A0211	Kakumanu Pradeep Kumar	Technical Quiz	Samkalp2k24-22 & 23 April 2022	Kallam Haranadhareddy Institute of Technology	Participation
55	228X5A0222	Pasupuleti Venkatesh	Technical Quiz	Samkalp2k24-22 & 23 April 2022	Kallam Haranadhareddy Institute of Technology	Participation
56	228X5A0225	Pulivarthi Akash	Technical Quiz	Engineers Day , 14 Th Sep 2022	Potti Sriramulu Chalavadi Mallikarjuna Rao College of Engineering & Technology	Participation
57	228X5A0227	Saikam Yaswanth Varma	Technical Quiz	Samkalp2k24-22 & 23 April 2022	Kallam Haranadhareddy Institute of Technology	Participation
58	228X5A0230	Tiruveedhula Sunil Kumar	Technical Quiz	Samkalp2k24-22 & 23 April 2022	Kallam Haranadhareddy Institute of Technology	Participation

59	198X1A0216	Nimmakaya la Subbareddy	Paper Present ation	Sparks Intelligentia 2022, 16-03-2023 To 19-03-2022	Malla Reddy Engineering College	Partici pation
60	198X1A0219	Polipogu Swarna Jyothi	Paper Present ation	Sparks Intelligentia 2022, 16-03-2023 To 19-03-2022	Malla Reddy Engineering College	Partici pation
61	198X1A0222	Raprolu Vaishnavi Sri Mowkthika	Paper Present ation	Explorer's Meet 2k22, 26-03-2022	SRK Institute of Technology Vijayawada	Partici pation
62	208X5A0217	Tarri Mahesh	Paper Present ation	Sparks Intelligentia 2022, 16-03-2023 To 19-03-2022	Malla Reddy Engineering College	Partici pation
63	208X5A0219	Thota Syam Kumar	Paper Present ation	Explorer's Meet 2k22, 26-03-2022	SRK Institute of Technology Vijayawada	Partici pation
64	208X1A0202	Bathula Sri Manikanta	Paper Present ation	Sparks Intelligentia 2022, 16-03-2023 To 19-03-2022	Malla Reddy Engineering College	Partici pation
65	208X1A0205	Bhimi Reddy Sai Vighnesh Reddy	Paper Present ation	Explorer's Meet 2k22, 26-03-2022	SRK Institute of Technology Vijayawada	Partici pation
66	208X1A0240	Vanga Divya Teja	Paper Present ation	Sparks Intelligentia 2022, 16-03-2023 To 19-03-2022	Malla Reddy Engineering College	Partici pation
67	218X5A0201	Gampa Sairam	Paper Present ation	Explorer's Meet 2k22, 26-03-2022	SRK Institute of Technology Vijayawada	Partici pation
68	218X5A0203	Koka Charitha	Paper Present ation	Explorer's Meet 2k22, 26-03-2022	SRK Institute of Technology	Partici pation

					Vijayawada	
69	218X5A0205	Lankapalli Naga Yaswanth	Paper Presentation	Sparks Intelligentia 2022, 16-03-2023 To 19-03-2022	Malla Reddy Engineering College	Participation
70	218X5A0206	Orsu Sai Gowtham	Paper Presentation	Explorer's Meet 2k22, 26-03-2022	SRK Institute of Technology Vijayawada	Participation

CRITERION 5	Faculty Information and Contributions	200

Table B.5: Details for the faculty of the department, cumulative information

Name of the Faculty Member	Qualification			Association with the Institution	Designation	Date on which Designated as Professor/Associate Professor	Date of joining in the Institution	Department	Specialization	Academic Research			Currently Associated (Y/N) Date of Leaving (Incase Currently Associated is("No")	Nature of Association(Regular/Contract)
	Degree (highest degree)	University	Year of attaining higher qualification							Research Paper Publications	Ph.D. Guidance	Faculty Receiving Ph. D. during the Assessment Years		
Dr. K. Hari Krishna	Ph.D	Acharya Nagarjuna University	2017	YES	Professor & HOD	30.10.2017	05.06.2014	EEE	Power Systems	16	YES		Y	Regular
Dr. L. Shanmukha Rao	Ph.D	JNTU Hyderabad	2016	YES	Professor	01.06.2016	01.06.2016	EEE	Power Systems	38	YES		Y	Regular

Dr.G. Kishor Babu	Ph.D	Acharya Nagarjuna University	2017	YES	Professor	08.08.2022	08.08.2022	EEE	Control Systems	28	YES		Y	Regular
Dr. P.P. Sharma	Ph.D	Andhra University	2024	YES	Professor	17.05.2024	03.06.2013	EEE	Power Systems & Automation	28		YES	Y	Regular
Mr. R.Subba Reddy	M.Tech (Ph.D)	JNTUKakinada	2008	YES	Associate Professor	04.06.2011	04.06.2011	EEE	Power Systems				Y	Regular
Mr. M.V.N. Murthy	M.Tech (Ph.D)	JNTUAnanthapur	2010	YES	Assistant Professor		06.06.2011	EEE	Power Systems	6			Y	Regular
Mr.V.Rajesh	M.Tech	JNTUKakinada	2012	YES	Assistant Professor		07.02.2022	EEE	Power & Industrial Drives				Y	Regular
Mr.P. Venubabu	M.Tech (Ph.D.)	JNTUAnanthapur	2011	YES	Assistant Professor		14.03.2022	EEE	Control Systems	7			Y	Regular
Mr.M.Ranjith Kumar	M.E (Ph.D)	Andhra University	2011	YES	Assistant Professor		01.08.2022	EEE	Power Systems & Automation	5			Y	Regular
Mrs.P.Kavitha	M.Tech	JNTUHyderabad	2008	YES	Assistant Professor		23.08.2022	EEE	Power & Industrial				Y	Regular

									Drives					
Mr.D.Sambasivarao	M.Tech	JNTUKakinada	2015	YES	Assistant Professor		21.10.2021	EEE	Power Systems& High Voltage Engineering	1			Y	Regular
Mr.J. Sunil Babu	M.Tech	Acharya Nagarjuna University	2008	YES	Assistant Professor		19.06.2023	EEE	Power Systems& Engineering	3			Y	Regular
Mrs.P. Nagadivya	M.Tech	JNTUKakinada	2017	YES	Assistant Professor		18.04.2022	EEE	Power Electronics				Y	Regular
Mrs.B.Lavanya	M.Tech	JNTUKakinada	2019	YES	Assistant Professor		15.06.2024	EEE	Power Electronics &Electrical Drives				Y	Regular
Mr.D.Joseph Abhishek	M.Tech (Ph.D)	JNTUKakinada	2021	YES	Assistant Professor		25.11.2024	EEE	Power Systems & Automation	1			Y	Regular
Dr. M. S. Naik	Ph.D	Acharya Nagarjuna	2022	YES	Associate Professor	30.09.2022	22.06.2015	EEE	Power Electronics & Drives				27.02.2024	Regular

		University												
Mr.K.Gopi Krishna	M.Tech	JNTUKakinada	2013	YES	Assistant Professor		11.07.2023	EEE	Power Electronics				27.02.2024	Regular
Mrs. P. Naga Jyothi	M.Tech	JNTUKakinada	2019	YES	Assistant Professor		01.06.2019	EEE	Power Electronics				06.05.2024	Regular
Mrs. SK.Kousar Sana	M.Tech	JNTUKakinada	2017	YES	Assistant Professor		01.06.2019	EEE	Power Electronics & Drives				06.05.2023	Regular
Mr. K. Nagaraju	M.Tech	NIT CALICUT	2011	YES	Assistant Professor		01.06.2011	EEE	Instrumentation & Control Systems				31.12.2022	Regular

5.1. Student-Faculty Ratio(SFR)(20)

No. of UG Programs in the Department (n): 1

No. of PG Programs in the Department (m): 0

Table B.5.1: Student- Faculty Ratio

Year	CAY (2024-25)	CAYm1(2023-24)	CAYm2(2022-23)
U1.1	60+32=92	60+28=88	60+33=93
U1.2	60+28=88	60+33=93	60+14=74
U1.3	60+33=93	60+14=74	60+21=81
UG1	92+88+93=273	88+93+74=255	93+74+81=248
Total No. of Students in the Department (S)	UG1=S1 273	UG2=S2 255	UG3=S3 248
No. of Faculty in the Department(F)	14 F1	14 F2	15 F3
Student Faculty Ratio (SFR)	19.5 SFR1=S1/F1	18.22 SFR2=S1/F1	16.53 SFR3=S3/F3
Average SFR	18.08 SFR=(SFR1+SFR2+SFR3)/3		

Marks(SFR<=19): 18.08

5.1.1Providetheinformationabouttheregularandcontractualfacultyaspertheform at mentioned below:

Table B.5.1.1: Information about the regular and contractual faculty

	Total number of regular faculty in the department	**Total number of contractual faculty in the department**
CAY(2024-25)	14	0
CAYm1(2023-24)	14	0
CAYm2(2022-23)	15	0

5.2. Faculty Cadre Proportion (20)

Table B.5.2: Faculty Cadre Proportion

Year	Professors		Associate Professors		Assistant Professors	
	Required F1	Available	RequiredF2	Available	Required F3	Available
CAY(2024-25)	1	4	3	0	9	10
CAYm1(2023-24)	1	3	2	0	8	11
CAYm2(2022-23)	1	3	2	0	8	12
Average Numbers	RF1=1	AF1=3.33	RF2=2.33	AF2=0	RF3=8.33	AF3=11

Cadre Ratio Marks=[(3.33/1) +(0x0.6/2.33) +(11x0.4/8.333)]x10 = 20

Marks: 20

5.3. Faculty Qualification (20)

Table B.5.3: Faculty Qualification

	X	Y	F	FQ=2x[(10X+4Y)/F)]
CAY(2024-25)	4	10	13	12.31
CAYm1(2023-24)	3	11	12	12.33
CAYm2(2022-23)	3	12	12	13.00
Average Assessment				12.55

Marks:12.55

5.4. Faculty Retention (10)

Table B.5.4 Faculty Retention

Description	2023-24(CAYm1)	2024-25(CAY)
No of Faculty Retained	13	12
Total No. of Required Faculty	12	
%of Faculty Retained	108	100
% Average	104	

Marks: 10

5.5. Faculty competencies in correlation to Program Specific Criteria (10)

Faculty competencies play a crucial role in ensuring that an academic program meets its Program Specific Criteria (PSC). Faculty competencies include a combination of educational qualifications, professional experience and pedagogical skills.

Key competencies of the faculty working in the department include:

Table B.5.5a: Faculty competencies

Sl. No	Competency	Descriptor
C1	Educational Background	Faculty members should hold degrees relevant to their field, preferably at a level higher than the program they are teaching.
C2	Professional Experience	Professional experience ensures that faculty members can provide real-world insights and case studies.
C3	Research and Publications	Active research contributions enhance subject knowledge and keep faculty updated on technological advancements
C4	Pedagogical Skills	Teaching methodologies should align with modern educational strategies, including outcome-based education and experiential learning
C5	Lifelong Learning skills	Earning Certifications and participation in FDPs/Workshops to update faculty skills

Table B.5.5b: Program specific criteria

PSO1	Core Subject Knowledge	Apply the knowledge of electrical engineering, investigate and solve the complex electrical Engineering problems to meet the specified needs with appropriate considerations for the society.
PSO2	Emerging technologies, Modern Tools and Interdisciplinary Knowledge	Analyze, design and integrate electrical systems and apply modern tools and techniques to the complex engineering problems and create passion for life-long learning.
PSO3	Skills, Innovation and Entrepreneurship	Acquire skills through hands-on experience and work effectively alone or with a team, demonstrating expertise and entrepreneurial mindset.

Table B.5.5c: Faculty Competencies - Program Specific Criteria Mapping Matrix

	PSC	C1	C2	C3	C4	C5
PSO1	Core Subject Knowledge	3	-	2	2	-
PSO2	Emerging Technologies, Modern Tools and Interdisciplinary Knowledge	2	3	2	2	3
PSO3	Skills, Innovation and Entrepreneurship	-	-	2	2	3

Table B.5.5d: Faculty Competencies –C1: Educational Qualifications and Specialization

Sl. No	Name of the Faculty	Qualifications	Specialization
1	Dr. K. Hari Krishna	Ph.D.	Power Systems
2	Dr. L. Shanmukha Rao	Ph.D.	Power Systems
3	Dr. G. Kishor Babu	Ph.D.	Control Systems
4	Dr.P.P. Sharma	Ph.D.	Power Systems & Automation
5	Mr. R. Subba Reddy	M.Tech(Ph.D)	Power Systems, Pursuing Ph.D at Annamalai University
6	Mr. M. V.N. Murthy	M.Tech(Ph.D)	Electrical Power Systems, Pursuing Ph.D at Acharya Nagarjuna University
7	Mr. V. Rajesh	M.Tech	Power & Industrial Drives
8	Mr. P. Venubabu	M.Tech (Ph.D)	Control Systems, Pursuing Ph.D at Andhra University
9	Mr. M. Ranjith Kumar	M.E (Ph.D)	Power Systems & Automation, Pursuing Ph.D at Acharya Nagarjuna University
10	Mrs. P. Kavitha	M.Tech	Power & Industrial Drives
11	Mr.J. Sunil Babu	M.Tech	PowerSystems

			Engineering
12	Mrs. P. Nagadivya	M.Tech	Power Electronics
13	Mr. D. Sambasiva Rao	M.Tech	Power Systems - High Voltage
14	Mr. D.J. Abhishek	M.Tech(Ph.D)	Power Systems & Automation, Pursuing Ph.D at VIT
15	Mrs. B. Lavanya	M.Tech	Power Electronics & Electrical Drives

Table B.5.5e: Faculty Competencies –C2: Professional Experience

S. No	Name of the Faculty	Professional Experience (Years)			Expertise
		Industry	Teaching	Research	
1	Dr. K. Hari Krishna	0	19	0	Holds a Doctoral Degree from Acharya Nagarjuna University Guntur.ResearchInterests include Optimization of power system performance
2.	Dr. L. Shanmukha Rao	0	20	0	Holds a Doctoral Degree from JNTUH Hyderabad. Research Interestsincludes FACTS devices, power quality, deregulated power systems, and renewable energy resources
3	Dr. G. Kishor Babu	1	15	0	Holds a Doctoral Degree from Acharya Nagarjuna University Guntur. Research Interests include Control Systems, Power electronics
4	Dr.P.P. Sharma	1.5	15	0	Holds a Doctoral Degree from Andhra

					University Visakhapatnam. Research Interests include Electrical Machines, HVDC, AC-DC Power Flows and Soft computing techniques.
5	Mr. R. Subba Reddy	0	14	0	Teaching expertise include in power system modeling and control, renewable energy sources
6	Mr.M.V.N. Murthy	0	17	0	Teaching expertise include in electrical machines, HVDC, AC-DC power flows.
7	Mr.V. Rajesh	0	11	0	Teaching expertise include in HVDC, Electrical drives.
8	Mr.P. Venubabu	0	14	0	Teaching expertise include in Power system modelling and control, Control systems
9	Mr.M. Ranjith Kumar	0	10	0	Teaching expertise include in Power system modelling and control.
10	Mrs. P. Kavitha	0	13	0	Teaching expertise include in Renewable energy sources
11	Mr.J. Sunil Babu	0	17	0	Teaching expertise include in Electrical Machines, HVDC, AC-DC Power Flows.
12	Mrs. P. Naga divya	0	8	0	Teaching expertise include in HVDC, Electrical drives.
13	Mr. D. Sambasiva	0	6	0	Teaching expertise include in Power

	Rao				system modeling and control
14	Mr. D. J. Abhishek	0	4 Months	3	Teaching expertise include in Power system modeling and control, Power quality
15	Mrs. B. Lavanya	0	3	0	Teaching expertise include in HVDC

Table B.5.5f: Faculty competencies –C4: Course Development

S. No	Name of the Faculty	Courses Developed
1	Dr. L. Shanmukha Rao	**Switch Gear & Protection** https://classroom.google.com/c/NzM3ODY0MDUxOTI5?cjc=db5wwiq
2	Dr. G. Kishor Babu	**Control Systems** https://classroom.google.com/c/NzUwNTI4NDQ2NTgw?cjc=i2hqwms
3	Dr.P.P. Sharma	**Induction & Synchronous Machines** https://classroom.google.com/c/NzUwNTI3ODE2NzE3?cjc=ylcwlca
4	Mr. M. Ranjith Kumar	**Power Systems-I** https://classroom.google.com/c/NzM3ODY0MTQyMzAx?cjc=vnxa2w3
6	Mrs. P. Kavitha	**Renewable energy sources** https://classroom.google.com/c/NzM3ODYzNzE1NzY3?cjc=dse7qvq

Table B.5.5g: Faculty competencies –C3: Research Publications

Sl. No	Name of the Faculty	Publications
1	Dr. K. Hari Krishna	● K. Hari Krishna et al., "Transformer-less ANN-Controlled STATCOM-based Power quality improvement for three phase DC-AC Boost inverter in grid-connected solar photovoltaic Systems", International Journal of Electrical and Electronics Engineering, Volume 10 issue 11, 76-88, November 2023, ISSN:2348-8379

		● K. Hari Krishna et al., "An intelligent based dc series electric springs in dc micro grids", International Journal of Intelligent Systems and Applications in Engineering,2024, 12(15s), ISSN:2147-6799 ● K. Hari Krishna et al., "DC–DC converter in micro grid for voltage regulation and Ripple reduction using electric Spring technology", International Journal of Power and Energy Systems, vol. 42, no. 10, 2022, ISSN:1710-2243
2	Dr. L. Shanmukha Rao	● L. Shanmukha Rao et al., "Cryptography algorithms for enhancing security in IoT based MaflyMPPT system under partial shading conditions", Journal of Discrete Mathematical Sciences & Cryptography ISSN 0972-0529 (Print), ISSN 2169-0065 (Online) Vol. 27 (2024), No. 7, pp. 1991–2003 DOI: 10.47974/JDMSC-2074 ● L. Shanmukha Rao et al., "Cybersecurity enabled electric vehicle charging and battery management system", Journal of Discrete Mathematical Sciences & Cryptography ISSN 0972-0529 (Print), ISSN 2169-0065 (Online) Vol. 27 (2024), No. 7, pp. 2111–2122 DOI: 10.47974/JDMSC-2084 ● L. Shanmukha Rao et al., "A Novel 7-level reduced-switch MLI topology fed PMSM drive for electric vehicle system", Indonesian Journal of Electrical Engineering and Computer Science, Vol. 33, no. 2, February 2024, ISSN:2502-4752
3	Dr. G. Kishor Babu	● G. Kishor Babu et al., "Analysis of a bi-directional power Converter of electric vehicle", Journal of systems engineering and electronics, Volume 33 issue 10 2023, ISSN:1671-1793 ● G. Kishor Babu et al., "Analysis of Battery Management System for Electric Vehicles", Mukt Shabd Journal, Volume XII, Issue VI, ISSN:2347-3150, JUNE-2023.
4	Dr. P.P. Sharma	● P.P. Sharma et al.," A novel fuzzy-logic controller-MDSUPQC topology for power Quality improvement in multi-feeder distribution system", International Journal of Advances in Applied Sciences, Vol. 13, no. 1, march 2024, ISSN:2252-8814 ● P.P. Sharma et al., "Performance evaluation of novel 9-level RSMLI topology for Grid-tied solar-PV

		system", International Journal of Applied Power Engineering, Vol. 13, no. 2, June 2024, ISSN:2252-8792
5	Mr. M.V.N. Murthy	● M.V.N. Murthy et al.," Performance evaluation of solar-PV integrated hybrid fuzzy logic controlled multi-functional UPQC for enhancing PQ features", International Journal of Applied Power Engineering, Vol. 13, no. 2, June 2024, ISSN:2252-8792 ● M.V.N. Murthy et al., "Mitigation of PQ issues in EV charging station connected Distribution system using novel RSMLI-based shunt APF", International Journal of Advances in Applied Sciences, Vol. 12, no. 4, December 2023, ISSN:2252-8814
6	Mr. M. Ranjith Kumar	● M. Ranjith Kumar et al., "A novel hybrid-fuzzy logic based UVC technique for Solar-PV/grid integrated water-pumping system", International Journal of Applied Power Engineering, Vol. 13, no. 2, June 2024, ISSN:2252-8792 ● M. Ranjith Kumar et al., "Design and analysis of Multilevel Inverter based HVDC System", International Journal of Engineering Innovation in Advanced Technology, Vol. 4, ISSUE-2, June 2022, ISSN:2582-1431.
7	Mr. P. Venubabu	● P. Venubabu et al.," Adaptive network based fuzzy inference system-controlled bridge type fault current limiter for transient stability improvement of multi-machine power system", International Journal of Research, Volume VIII, Issue V, MAY/2019 Page No:1278 ● P. Venubabu et al., "MPPT Control of PMSG Based Wind Energy Conversion System", International Journal of Research Volume VIII, Issue V, MAY/2019 ISSN NO:2236-6124, Volume VIII, Issue V, MAY/2019 Page No:1290
8	Mr. D. Sambhasiva Rao	● D. Sambhasiva Rao et al., "An SVPWM based CSI for grid connected PV system", International Journal of Advanced Technology in Engineering and Science, www.ijates.com, Volume No.03, Issue No. 02, February2015, ISSN (online): 2348 – 7550
9	Mr. D. J. Abhishek	● D. J. Abhishek et al., "Invasive weed optimized drift parameter involved differential protection scheme", ISSN-1876-1119 Volume-728, April 2021.

Table B.5.5h: Facultycompetencies:C4: Text Books/Book Chapter/monograms

S.NO	Name of the Author	Details
1	Dr. L. Shanmukha Rao	• L. Shanmukha Rao et al., "Text book on Distributed Generation System",2020, LAMBERT academic publications, ISBN: 978-620-2-51323-4 • L. Shanmukha Rao et al., "Text book on IUPQC" LAMBERT academic publications,2020, ISBN: 978-620-2-51321-0 • L. Shanmukha Rao et al., "Text book on Plug in Electric Vehicles, LAMBERT academic publications, 2020, ISBN: 978-620-2-51324-1 • L. Shanmukha Rao et al., "Text book on Power Quality", 2020, LAMBERT academic publications, ISBN: 978-620-0-78787-3
2	Dr. G. Kishor Babu	• G. Kishor Babu et al., "Text book on Singular Perturbation Method", LAMBERT academic publications, ISBN:978-620-2-06889-5, 2018
3	Dr.P.P. Sharma	• P.P. Sharma et al., "Book Chapter on Enhancement of Power Quality using Zig-Zag Transformer & VSC based DSTATCOM", 2023, ISBN NO. 978-93-5641-079-4 • P.P. Sharma et al., "Book Chapter on Harmonic Elimination in VSI for Medium Voltage Applications, 2022,ISBN NO.978-620-5-63962-7

Table B.5.5i: Faculty competencies –C3: Patents

Sl. No	**Name of the Faculty**	**Patents**
1	Dr.K. Hari Krishna	• K. Hari Krishnaet al.," Self-Healing network architectures with integrated AI based anomaly detection". Intellectual property, India- Patent office Chennai, Published, 14/11/23.
2	Dr.L. Shanmukha Rao	• L. Shanmukha Raoet al.," Human behavior analysis using AI" Intellectual property, India-Patent officeChennai, Published, 19/09/2023

3	Dr.G. Kishor Babu	• G. Kishor Babu et al.," Solar inverter encloses Design-Indian" Intellectual property, India- Patent office Chennai, Granted,16/02/2023 • G. Kishor Babu et al.," Artificial Intelligence in smart farms-Indian "Intellectual property, India-Patent office Chennai, Published,04/02/2022
4	Mr.M. Ranjith Kumar	• M. Ranjith Kumar et al.," Feed Motor in Automation of Agribot Using Ml". Intellectual property, India- Patent office Chennai, Published, 06/10/23

Table B.5.5j: Faculty competencies –C3: Ph. D Guidance

S. No	Name of the faculty	Details of the Scholar	University	Status Completed/ On going
1	Dr. K. Hari Krishna	Mrs. P. Naga Lakshmi	Annamalai University	Completed
		Mr. R. Subba Reddy	Annamalai University	On going
2	Dr. L. Shanmukha Rao	Mr. P. Purnachandra Rao	Annamalai University	On going
		Mr. CH. Anil Kumar	Annamalai University	On going
		Mrs. P. Deepthi	Vignan University	On going

Table B.5.5k: Faculty competencies - C5: Lifelong Learning (FDP/STTP)

Faculty as Participants in FDPs/Workshops/Seminars/STTPs-Training Activities

S.No	Name of the Faculty	FDP / Workshop /Seminar/STTP	Title of the Program	Date(s)		Organization
				From	To	
1	Dr. K. Hari Krishna	FDP	AI Techniques in Electrical System	15/04 /2024	20/04 /2024	Bapatla Engineering College
		STTP	Electrical CAD design	26/06 /2023	01/07 /2023	Bapatla Engineering

						College
		FDP	Advanced technologies in electrical engineering research	01/08 /2022	05/08 /2022	Sai Ram Institute of Technology
		FDP	Advancement in Aerospace Materials: Manufacturing , Testing and Characterizatio n	24/01 /22	28/01 /22	Hindustan College Engineering and Technology, Coimbatore
2	Dr. L. Shanmukha Rao	FDP	Advancements In Aerospace Materials: Manufacturing , Testing and Characterizatio n 2.0	11/03 /2024	15/03 /2024	Hindustan College of Engineering and Technology
		STTP	Design, implementatio n and control of electrical systems using MATLAB	03/01 /2023	07/01 /2023	Bapatla Engineering College
		FDP	Methods Of Material Synthesis	18/01 /22	22/01 /22	Bhavan's Vivekananda College
3	Dr. G. Kishor Babu	FDP	NSQF Aligned Skill Development	19/02 /2024	23/02 /2024	Narasaraopet Engineering College
		STTP	Design, implementatio n and control of electrical systems using MATLAB	03/01 /2023	07/01 /2023	Bapatla Engineering College
4	Dr.P.P. Sharma	FDP	NSQF Aligned Skill Development	19/02 /2024	23/02 /2024	Narasaraopet Engineering College
		FDP	Advanced	01/08	05/08	Sai Ram

			technologies in electrical engineering research	/2022	/2022	Institute of Technology
		FDP	Methods Of Material Synthesis	18/01 /22	22/01 /22	Bhavan's Vivekananda College
5	Mr. R. Subba Reddy	STTP	Electrical CAD Design	26/06 /2023	01/07 /2023	Bapatla Engineering College
		FDP	Advanced technologies in electrical engineering research	01/08 /2022	05/08 /2022	Sai Ram Institute of Technology
		FDP	Emerging Advancement of Wireless Communications and Applications of Power Electronics in Smart Grid System	28/02 /22	05/03 /22	Jeppiaar Institute of Technology
6	Mr. M. V. N. Murthy	FDP	Advancements In Aerospace Materials: Manufacturing, Testing and Characterization 2.0	11/03 /2024	15/03 /2024	Hindustan College of Engineering and Technology
		FDP	Recent advances in cyber physical power system and smart grid	08/05 /2023	13/05 /2023	ANURAG University
		FDP	Advancement in Aerospace Materials: Manufacturing, Testing and	24/01 /22	28/01 /22	Hindustan College Engineering and Technology,

			Characterizatio n			Coimbatore
7	Mr.V. Rajesh	FDP	Advancements In Aerospace Materials: Manufacturing , Testing and Characterizatio n 2.0	11/03 /2024	15/03 /2024	Hindustan College of Engineering and Technology
		FDP	Recent advances in cyber physical power system and smart grid	08/05 /2023	13/05 /2023	ANURAG University
		FDP	Methods Of Material Synthesis	18/01 /22	22/01 /22	Bhavan's Vivekananda College
8	Mr.P. Venubabu	FDP	NSQF Aligned Skill Development	19/02 /2024	23/02 /2024	Narasaraopet Engineering College
		FDP	Advanced technologies in electrical engineering research	01/08 /2022	05/08 /2022	Sai Ram Institute of Technology
		FDP	Emerging Advancement of Wireless Communicatio ns and Applications of Power Electronics In Smart Grid System	28/02 /22	05/03 /22	Jeppiaar Institute of Technology
9	Mr.M. Ranjith Kumar	FDP	Advancements In Aerospace Materials: Manufacturing , Testing and Characterizatio	11/03 /2024	15/03 /2024	Hindustan College of Engineering and Technology

			n 2.0			
		FDP	Advanced technologies in electrical engineering research	01/08 /2022	05/08 /2022	Sai Ram Institute of Technology
		FDP	Recent advances in cyber physical power system and smart grid	08/05 /2023	13/05 /2023	ANURAG University
10	Mrs. P. Kavitha	FDP	NSQF Aligned Skill Development	19/02 /2024	23/02 /2024	Narasaraopet Engineering College
		FDP	Recent advances in cyber physical power system and smart grid	08/05 /2023	13/05 /2023	ANURAG University
11	Mr.J. Sunil Babu	FDP	NSQF Aligned Skill Development	19/02 /2024	23/02 /2024	Narasaraopet Engineering College
12	Mrs. P. Nagadivya	FDP	NSQF Aligned Skill Development	19/02 /2024	23/02 /2024	Narasaraopet Engineering College
		FDP	Recent advances in cyber physical power system and smart grid	08/05 /2023	13/05 /2023	ANURAG University
		FDP	Methods Of Material Synthesis	18/01 /22	22/01 /22	Bhavan's Vivekananda College
13	Mr. D. Sambhasiv a Rao	FDP	Advancements In Aerospace Materials: Manufacturing , Testing and	11/03 /2024	15/03 /2024	Hindustan College of Engineering and Technology

			Characterizatio n 2.0			
		STTP	Design, implementatio n and control of electrical systems using MATLAB	03/01 /2023	07/01 /2023	Bapatla Engineering College
		FDP	Advancement in Aerospace Materials: Manufacturing , Testing and Characterizatio n	24/01 /22	28/01 /22	Hindustan College Engineering and Technology, Coimbatore
14	Mrs. P. Nagajyothi	FDP	NSQF Aligned Skill Development	19/02 /2024	23/02 /2024	Narasaraopet Engineering College
		Worksh op	Innovation entrepreneursh ip and start-up for young	26/09 /2022	30/09 /2022	National Institute Of Technology, Mizoram
		FDP	Advancement in Aerospace Materials: Manufacturing , Testing and Characterizatio n	24/01 /22	28/01 /22	Hindustan College Engineering and Technology, Coimbatore
15	Dr. M. S. Naik	FDP	Advancements In Aerospace Materials: Manufacturing , Testing and Characterizatio n 2.0	11/03 /2024	15/03 /2024	Hindustan College of Engineering and Technology
		FDP	Emerging Advancement of Wireless Communicatio ns and	28/02 /22	05/03 /22	Jeppiaar Institute of Technology

			Applications of Power Electronics In Smart Grid System			
16	Mr. K. Gopi Krishna	FDP	NSQF Aligned Skill Development	19/02 /2024	23/02 /2024	Narasaraopet Engineering College
17	Mr.K.Naga raju	FDP	Recent advances in cyber physical power system and smart grid	08/05 /2023	13/05 /2023	ANURAG University
		FDP	Methods Of Material Synthesis	18/01 /22	22/01 /22	Bhavan's Vivekananda College
18	Mrs. SK. Kousar Sana	FDP	Advancement in Aerospace Materials: Manufacturing , Testing and Characterizatio n	24/01 /22	28/01 /22	Hindustan College Engineering and Technology, Coimbatore
19	Mrs. T. Kalyani	FDP	Methods Of Material Synthesis	18/01 /22	22/01 /22	Bhavan's Vivekananda College
20	Mr. A. Panduranga Rao	FDP	Methods Of Material Synthesis	18/01 /22	22/01 /22	Bhavan's Vivekananda College

Table B.5.5l: Faculty Competencies - C5: Lifelong Learning (MOOCs Courses)

S. No	Name of the faculty	NPTEL Course Name / Duration	Certificate Number
1	Dr. G. Kishor Babu	Introduction to Machine Learning (12 week)	NPTEL24CS 101S6558009 72
2	Dr. G. Kishor Babu	Problem Solving Through	NPTEL24CS 123S1055802

		Programming in C (12 week)	506
3	Dr. G. Kishor Babu	Python for Data Science(12Week)	NPTEL22CS32S43490370
4	Dr. G. Kishor Babu	Fundamentals of Artificial Intelligence(12Week)	NPTEL21CS32S43413584

Table B.5.5m: Faculty competencies - C2: Awards

S. No	Name of the faculty	Details
1	Dr. L. Shanmukha Rao	"Excellence in Peer-Reviewing Award", in recognition of an outstanding contribution to the quality of the book by Chief Managing Editor Dr. M. Basu, UK, India, 15.11.2024
2		"Best Researcher Award", for best paper, in Academia, Industry and Research Networking Conclave Tirupathi Chapter, 22nd -23rd Dec 2024.

Table B.5.5n: Faculty competencies - C3: Peer Reviewer

S.NO	Name of the faculty	Name of the Conference	ISBN NO
1	Dr.L.ShanmukhaRao	IEEE International Conference on Intelligent Controller and Computing for Smart Power (ICICCSP)-21-23, July 2022.	ISBN: 978-1-6654-7258-6/22
		Springer International Conference on intelligent computing and smart communication technologies-26-27, July 2019.	ISBN: 978-1-5754-7652-5
2	Dr. G. Kishor Babu	IEEE World Conference on Applied Intelligence and Computing-June17-19, 2022.	ISBN: 979-8350310078
		IEEE World Conference on Applied Intelligence and Computing-July29-30, 2023	ISBN: 979-8350310061
		4th International Conference on Computational Intelligence-November 04-05, 2023.	ISBN: 978-9819735259

		5th International Conference on Sustainable & Innovative Solutions for Current Challenges in Engineering & Technology, October 21-22, 2023.	ISBN: 978-0735450325
		2nd International Conference on Advances in Data Driven Computing & Intelligent System, September 21-23, 2023.	ISBN: 978-9819995202
		2nd world congress on Smart Computing, February 22-23,2025	ISBN: 978-81-955020-2-8

Table B.5.5o: Faculty competencies - C2:Administration

S. No	Name of the faculty	Administrative Role
1	Dr. K. Hari Krishna	Head of Department & NIRF SPOC
2	Dr. L. Shanmukha Rao	Dean & Controller of examinations
3	Dr. G. Kishor Babu	IQAC SPOC
4	Dr.P.P. Sharma	Incharge - College Hostel
5	Mr. M.V.N. Murthy	Incharge – Electrical maintenance at college level
6	Mr.V. Rajesh	Coordinator - SOCs at Department level
7	Mr. P. Venubabu	Coordinator – Internships at Department level
8	Mr. M. Ranjith Kumar	Incharge - Timetables at Department level
9	Mr. P. Kavitha	Incharge - Attendance at Department level
9	Mr. J. Sunil Babu	Coordinator - IQAC at Department level
10	Mrs. P. Nagadivya	Incharge - Exam cell at Department level
11	Mr. D. Sambhasiva Rao	Incharge – Department Library

Table B.5.5p: Faculty competencies - C2: Resource Person – FDP/STTP/Session Chair/Keynote Speaker

S.No.	Name of the Faculty as Resource Person	Name of the STTP/FDP/Workshop	Date	Location	Organized by
1.	Dr. G. Kishor Babu	Role of Renewable energy in EV charging infrastructure and IOT for EV monitoring	04.12.2024	Avanthi's St. Theressa Institute of Engineering & Technology Vizianagaram	Department of electrical & electronics engineering
2.	Dr. G. Kishor Babu	Renewable Integration Challenges and Electric Vehicle (EV) Charging Infrastructure	11.02.2025	Ramachandra College of Engineering, Eluru	Department of electrical & electronics engineering
3.	Dr. L. Shanmukha Rao	Application of black chain technology in rural sustainable development with special reference to A. P	05.09.2023-08.09.2023	Ramachandra College of Engineering, Eluru	Department of electrical & electronics engineering
4.	Dr. G. Kishor Babu	Application of black chain technology in rural sustainable development with special reference to A. P	05.09.2023-08.09.2023	Ramachandra College of Engineering, Eluru	Department of electrical & electronics engineering
5.	Dr. L. Shanmukha Rao	Recent trends in Power Systems & Power Electronics	22.07.2022	Narasaraopet Engineering College	Department of electrical & electronics engineering
		Smart and Sustainable Technologies in Energy and Power Sectors	07-09.2022 – 09-09-2022	Central University of Haryana	Department of electrical engineering, School of engineering & technology

5.6. Innovations by the Faculty in Teaching and Learning (10)

KHIT is implementing OBE, OBE is a student centric teaching-learning methodology in which the course delivery and assessment are planned to achieve the stated objectives and outcomes. To achieve the stated outcomes, the faculty members in the department follows different course delivery methods such as lecturing, tutorials, assignments, remedial classes, quiz, presentations, experimental laboratory work, project work, etc.

Innovations by the faculty - pedagogical initiatives:

a. Title of the initiative: Flipped classrooms

i) Goal: To enhance student higher order learning by reversing the traditional model of a classroom, focusing class time on student understanding rather than on lecture.

ii) Context: Flipped classroom in the Blended learning environment for delivering instructional content is a more advanced solution for promoting higher order cognition.

Students in flipped classes access and watch lecture video, read course handout and come to the classroom to complete activities such as group work, assignments, discussion, projects or other exercises. The flipped classroom model can be seen as a tool for implementation of blended learning.

iii) Practice: Flipped classroom approach in the blended learning environment is extensively used in the department and exploited to its best since pandemic where interaction is more collaborative and discussion oriented.

The following are the steps involved in implementation of flipped classroom methodology in our department:

- Students are instructed to enroll in the Google classroom for each subject in the semester through a link shared by the concerned class teacher.

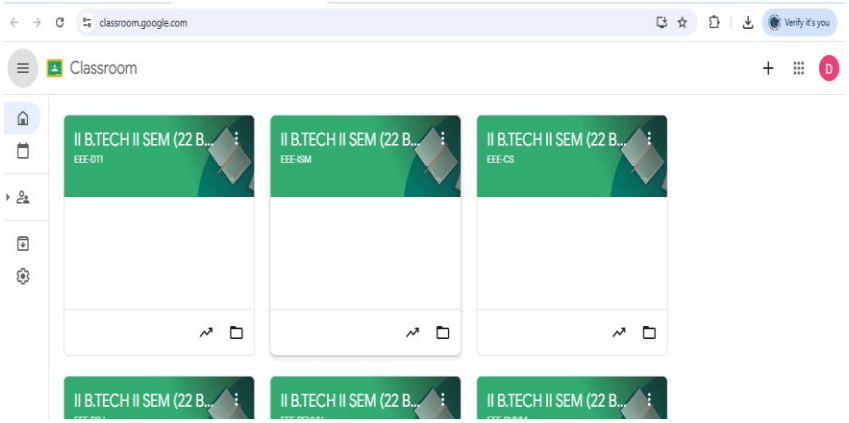


Fig.5.6a:List of Google classrooms maintained by the department

- Students are instructed to fill up the registration form shared by the class coordinator
- Concerned course faculty post instructions, lecture material and videos in Google classroom and the students are instructed to go through the same. After the completion of each session the students must submit the quiz in Google classroom by which the responses of students are recorded and grades for each student are issued. The students are encouraged to hold discussions over the topic during face-to-face interaction in the classroom with the faculty.
- Faculty members hold virtual class meetings for interaction through meeting application i.e., Google meet which is integrated with LMS.
- Assignments are disseminated through LMS
  After completion of each unit, students are required to submit the assignment for each course.

Table B.5.6a: Evidence of success

Batch	Percentage of students graduated
2020-2021	70.91
2019-2020	50.98
2018-2019	61.11

1. The academic sessions during the formative stages of the graduation are seriously affected for the 2019-2023 and 2020-2024 admitted batches of the students due to the pandemic.
2. The academic rigor is sustained during the course period by the implementation of flipped classroom pedagogy.

b. Title of the initiative: Self-learning – Blended MOOCs by SWAYAM - NPTEL

i) Goal: SWAYAM is a program initiated by Govt. of India and designed to achieve the three cardinal principles of Education Policy viz., access, equity and quality to take the best teaching learning resources to everyone.

ii) Context: Self learning using curated courses offered on SWAYAM-NPTEL platform instills learning how to learn. Also, to promote quality and to provide access, we are encouraging the digital content and assessment leading to valid certification by SWAYAM-NPTEL. The interdisciplinary approach by way of offering Minors/Majors in UG-Engineering programs is encouraged by this initiative. The courses on frontiers of engineering/emerging areas, employability skill-oriented courses are offered with ease without compromising on regular curriculum. Moreover, the current pandemic disrupted regular learning. We believe that the quality learning can be sustained by blending MOOCs learning. The credits earned may be deposited in the ABC repository which can be re-deemed as per the NEP 2020.

iii) Practice: The Mechanical engineering department gives information to the students about the courses offered in MOOCs, if any course is in the curriculum that particular course will be aligned with MOOCs offered on SWAYAM-NPTEL platform. Mentors are appointed for each course.

Asynchronous learning is complemented by Face-to-face synchronous learning in the classroom. Students are informed to go through the video content and course handout in asynchronous manner. The classroom activities and laboratory sessions are conducted by the concerned mentor who supplements learning and promotes higher order cognition in learning. The synchronous learning instills confidence in the students for taking up regular assignments and submission of the same in timely manner. The mentor encourages the students to go for certification.

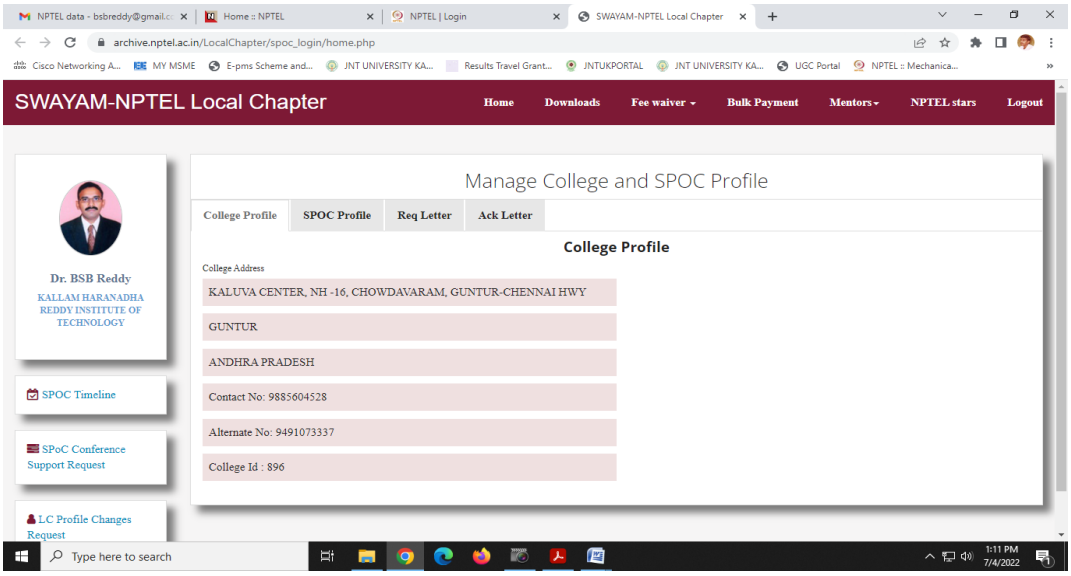


Fig.5.6b. SWAYAM - NPTEL Local chapter Dashboard

Table B.5.6b: Course registrations in SWAYAM – NPTEL

S. No	AY	No of Students registered
1	2024-25	54
2	2023-24	51
3	2022-23	110

Evidence of success:

The number of students registered with SWAYAM-NPTEL for MOOCs is sustained. This is mainly due to blended MOOCs where teachers supplement asynchronous learning.

c. Title of the initiative: Virtual Labs – Improved laboratory experience

i) Goal:

- The Virtual labs initiative is a paradigm shift in ICT-based education.
- To provide remote access to simulation-based Labs.
- To enthuse students to conduct experiments by arousing their curiosity. This would help them in learning basic and advanced concepts through remote experimentation.

ii) Context: Good lab facilities and updated lab experiments are critical for any engineering discipline. The paucity of lab facilities often makes it difficult to conduct experiments. Further lab experiments in the curriculum are often restricted by the availability of lab infrastructure.

The Virtual Labs project addresses the above issues of lack of good lab facilities, as well as trained teachers, by providing remote access to simulation-based Labs in various disciplines of science and engineering.

Remote access to simulation-based labs arouses the curiosity of the students and permits them to learn at their own pace. This student-centric approach facilitates the absorption of basic and advanced concepts through simulation-based experimentation. Internet-based experimentation further permits the use of additional web resources, video lectures, animated demonstrations and self-evaluation. Specifically, the Virtual Labs complements the lab facilities already available. Virtual labs are any place, any pace, anytime, any-type labs. It is a paradigm shift in student-centric, online education used to its best during the current pandemic.

iii) Practice:

Step 1: The labs and experiments offered on the Virtual labs' platform are mapped with the labs and exercises prescribed in the curriculum. After due discussions, the department announces the information to the students about the labs and exercises in the remote mode.

Step 2: Mentors are appointed for each Lab.

Step 3: A workshop in association with Virtual labs is organized to sensitize the students and faculty members on how to navigate the platform.

Step 4: Students navigate through the platform and access the lab. The students are informed to go through the relevant video content and lab manual in remote mode.

Step 5: Student will perform the simulation experiment in the remote mode and submit the feedback form to the mentor.

The laboratory sessions are conducted by the concerned mentor who supplements the same by engaging the discussion sessions.

iv) Evidence of success

Table B.5.6c: Evidence of success

S. No	AY	Course	No. of Students	No. of Experiments	Remarks
1	2024-25	Electrical Simulation Lab	106	2	Simulation of Time response analysis
		Power Systems & Simulatio		2	Simulation of Gauss-sidel method, Newton Raphson's method

		n Lab			
2	2023-24	Electrical Simulation Lab	104	2	Simulation of Time response analysis
		Power Systems & Simulation Lab		2	Simulation of Gauss-sidel method, Newton Raphson's method
3	2022-23	Electrical Simulation Lab	100	2	Simulation of Time response analysis
		Power Systems & Simulation Lab		2	Simulation of Gauss-sidel method, Newton Raphson's method

KHIT is the nodal center for Virtual labs

The lab sessions are completed during the A.Y 2022-23 and 2023-24 successfully.

v) Problems: The following are the issues faced during the above practice

1. The lab experiments are limited to simulation-based one.
2. Some of the lab experiments are not available.

vi) Resources: Computer systems with the latest configuration and better connectivity.

5.7. FacultyasparticipantsinFacultydevelopment/trainingactivities/STTPs (15)

Table B.5.7: Faculty as Participants in Faculty Development / Training Activities/STTPs

S. No	Name of the Faculty	Max. 5 per Faculty		
		CAYm1 (2023-24)	CAYm2 (2022-23)	CAYm3 (2021-22)
1	Dr. K. Hari Krishna	5	3	3
2	Dr. L. Shanmukha Rao	3	3	3
3	Dr. G. Kishor babu	3	3	0
4	Dr. P. P. Sharma	3	3	3
5	Mr. R. Subba Reddy	5	3	5
6	Mr. M. V. N. Murthy	3	5	3

7	Mr. V. Rajesh	3	5	3
8	Mr. P. Venubabu	3	3	5
9	Mr. M. Ranjith Kumar	3	5	0
10	Mrs. P. Kavitha	3	5	0
11	Mr.J. Sunil Babu	3	0	0
12	Mrs. P. Nagadivya	3	5	3
13	Mr. D. Sambasiva Rao	3	3	3
14	Mr. K. Nagaraju	0	5	3
15	Mrs. P. Nagajyothi	3	3	3
16	Mrs. SK. Kousarsana	0	0	3
17	Mrs. T. Kalyani	0	0	3
18	Dr. M. S. Naik	3	0	5
19	Mr. K. Gopi Krishna	3	0	0
20	Mr. A. Panduranga Rao	0	0	3
Sum		52	54	51
RF= No. of faculty required to comply with 20:1 Students		13	12	12
Assessment[3*Sum/0.5RF)]		24	27	25.5
Average Assessment over three years		25.5		

Marks:15

5.8 Research and Development (75)

5.8.1. Academic Research (20)

Department faculty members have journal publication in their specialization. Students are encouraged to participate in National and International conferences and also to publish paper in National and International Journals**.**

(A) Number of quality publications in refereed/SCI Journals, citations, Books/Book Chapters etc.

Table B.5.8.1a: Total number of faculty publications, Books/Book Chapters

A.Y.	Total Number of Publications in Journals	Total Number of Publications in Conferences	Total No. of Books/Book Chapters
CAY (2024-25)	02	02	-
CAYm1(2023-24)	21	-	-
CAYm2(2022-23)	03	11	02
TOTAL	26	13	02

The faculty members in the department are actively involved in research leading award of Ph.D. and publications in journals. The Table 5.8.1a shows the total number of publications in reputed Journals and Conferences.

Table B.5.8.1b: The Details of Faculty Publications in Journals

CAY: 2024-25 **No. of Publications in Journals: 02**

S. No	Name of the author	Title of the Paper	Name of the Journal	Month & Year of Publications	ISSN /DOI Number
1	Dr. L.Shamukha Rao	Cryptography algorithms for enhancing security in IoT based Mafly MPPT system under partial shading conditions	Journal of Discrete Mathematical Sciences & Cryptography	OCT 2024	ISSN 0972-0529
2	Dr. L. Shamukha Rao	Cybersecurity enabled electric vehicle charging and battery management system	Journal of Discrete Mathematical Sciences & Cryptography	OCT 2024	ISSN 0972-0529

Table B.5.8.1c: The details of faculty publications in conference proceedings

CAY:2024-2025 **No. of Conferences published by faculty: 01**

S. No	Name of the Faculty	Title of Paper	Title of the Proceedings of the Conference	Month & Year of Publications	ISBN/ISSN
1	Dr. L. Shanmukha Rao	Performance Evaluation of a 3-Ø Grid-Interfaced 100 kW Solar Photovoltaic System	2025 IEEE International Students' Conference on Electrical, Electronics, and Computer Science	JAN 2025	ISBN: 979-8-3315-2983-3
2	Dr. P. P. Sharma	Performance Evaluation of a 3-Ø Grid-Interfaced 100 kW Solar	2025 IEEE International Students' Conference on Electrical,	JAN 2025	ISBN: 979-8-3315-2983-3

		Photovoltaic System	Electronics, and Computer Science		

CAYm1: 2023-24 **No. of Publications in Journals: 21**

S. No	Name of the author	Title of the Paper	Name of the Journal	Month & Year of Publications	ISSN /DOI Number
1	Dr. K. Hari Krishna	Transformer-less ANN-Controlled STATCOM-based Power quality improvement for three phase DC-AC Boost inverter in grid-connected solar photovoltaic Systems	International Journal of Electrical and Electronics Engineering	NOV 2023	ISSN: 2348-8379
2	Dr. K. Hari Krishna	An intelligent based DC series electric springs in DC micro grids	International Journal of Intelligent Systems and Applications in Engineering	JULY 2024	ISSN: 2147-6799
3	Dr. L. Shanmukha Rao	Analysis of a novel soft switching bidirectional DC-DC Converter for electric vehicle	International Journal of Applied Power Engineering	OCT 2023	ISSN: 2302-9285
4	Dr. L. Shanmukha Rao	Performance evaluation of solar-PV integrated hybrid fuzzy Logic controlled multi-functional UPQC for enhancing PQ features	International Journal of Applied Power Engineering	JUNE 2024	ISSN: 2252-8792
5	Dr. L. Shanmukha Rao	A novel hybrid-fuzzy logic based UVC technique for Solar-PV/Grid integrated	International Journal of Applied Power	JUNE 2024	ISSN: 2252-8792

		water-pumping system	Engineering		
6	Dr. L. Shanmukha Rao	Performance evaluation of novel 9-level RSMLI topology for Grid-tied solar-PV system	International Journal of Applied Power Engineering	JUNE 2024	ISSN: 2252-8792
7	Dr. L. Shanmukha Rao	A novel solar PV integrated fuzzy-logic controlled UAPQC Device for power quality enhancement	International Journal of Advances in Applied Sciences	MARCH 2024	ISSN: 2252-8814
8	Dr. L. Shanmukha Rao	A novel fuzzy-logic controller - MDSUPQC topology for power quality improvement in multi-feeder distribution system	International Journal of Advances in Applied Sciences	MARCH 2024	ISSN: 2252-8814
9	Dr. L. Shanmukha Rao	A novel 7-level reduced-switch mli topology fed PMSM drive for electric vehicle system	Indonesian Journal of Electrical Engineering and Computer Science	FEB 2024	ISSN: 2502-4752
10	Dr. L. Shanmukha Rao	A novel SIMI DC - DC topology driven PMSM for PEV application	International Journal of Applied Power Engineering	MARCH 2024	ISSN: 2252-8792
11	Dr. L. Shanmukha Rao	Mitigation of PQ issues in EV charging station connected distribution system using novel RSMLI - based shunt APF	International Journal of Advances in Applied Sciences	DEC 2023	ISSN: 2252-8814
12	Dr.G. Kishor Babu	Analysis of a bi-directional power Converter of electric vehicle	Journal of systems engineering and	DEC 2023	ISSN: 1671-1793

			electronics		
13	Dr. P. P. Sharma	A novel fuzzy-logic controller-MDSUPQC topology for power quality improvement in multi-feeder distribution system	International Journal of Advances in Applied Sciences	MARCH 2024	ISSN: 2252-8814
14	Dr. P. P. Sharma	A novel solar PV integrated fuzzy-logic controlled UAPQC device for power quality enhancement	International Journal of Advances in Applied Sciences	MARCH 2024	ISSN: 2252-8814
15	Dr. P. P. Sharma	Performance evaluation of novel 9-level RSMLI topology for Grid-tied solar-PV system	International Journal of Applied Power Engineering	JUNE 2024	ISSN: 2252-8792
16	Dr. P. P. Sharma	A novel hybrid-fuzzy logic based UVC technique for Solar-PV/grid integrated water-pumping system	International Journal of Applied Power Engineering	JUNE 2024	ISSN: 2252-8792
17	Dr. P. P. Sharma	Performance evaluation of solar-PV, integrated hybrid fuzzy Logic controlled multi-functional UPQC for enhancing PQ features	International Journal of Applied Power Engineering	JUNE 2024	ISSN: 2252-8792
18	Mr. M. V. N. Murthy	Performance evaluation of solar-PV integrated hybrid fuzzy Logic controlled multi-functional UPQC for enhancing PQ features	International Journal of Applied Power Engineering	JUNE 2024	ISSN: 2252-8792
19	Mr. M. V. N. Murthy	Mitigation of PQ issues in EV charging station connected Distribution system using novel RSMLI-	International Journal of Advances in Applied Sciences	DEC 2023	ISSN: 2252-8814

		based shunt APF			
20	Mr.M. Ranjith Kumar	Mitigation of PQ issues in EV charging station connected Distribution system using novel RSMLI-based shunt APF	International Journal of Advances in Applied Sciences	DEC 2023	ISSN: 2252-8814
21	Mr. M. Ranjith Kumar	A novel hybrid-fuzzy logic based UVC technique for Solar-PV/grid integrated water-pumping system	International Journal of Applied Power Engineering	JUNE 2024	ISSN: 2252-8792

CAYm2: 2022-23 No. of Publications in Journals: 03

S. No	Name of the Author/s	Title of Paper	Name of the Journal	Month & Year of Publications	ISSN /DOI Number
1	Dr. K. Hari Krishna	ANFIS-GA based hybrid control method for enhancement of DC micro grids using electric spring	Mathematical Statistician and Engineering Applications	JULY 2022	ISSN: 2094-0343
2	Dr. K. Hari Krishna	Electric spring-based voltage control of DC micro-grids using intelligent controllers	International Journal of Intelligent Systems and Applications in Engineering	NOV 2022	ISSN: 2147-6799
3	Dr. G. Kishor Babu	Analysis of battery management system for electric vehicles	Mukt Shabd Journal	JUNE 2023	ISSN: 2347-3150

CAY:2022-2023 No. of Conferences published by faculty: 11

S. No	Name of the Faculty	Name of the Conference	Date & Year	Organizing Institution

1	Dr. K. Hari Krishna	Power Quality Enhancement in DC Microgrids by Model Predictive Control of Electric Springs	04-08-2022 to 06-08-2022	Vellore Institute of Technology, Vellore
2	Dr. L. Shanmukha Rao	IoT Based Event Logger for Railway Systems	07-11-2022 to 11-11-2022	Central University of Haryana
3	Dr. L. Shanmukha Rao	IoT Based Interlocking System for Modern Electric Railway System	07-11-2022 to 11-11-2022	Central University of Haryana
4	Dr. L. Shanmukha Rao	An Improved System Performance Using ANN-FUZZY Logic and MSHO Control for BES-Solar PV and Wind Plant Based Micro-Grid System	25-08-2022 to 26-08- 2022	College of Engineering Perumon, Kollam, Kerala
5	Dr. L. Shanmukha Rao	Improved Power Quality SOGI Based Grid Integrated PV System under Abnormal Conditions by using Interweaved GI	21-07-2022 to 23-07- 2022	Sreenidhi Inst. of Science & Tech, Hyderabad, India
6	Dr. L. Shanmukha Rao	Power Quality Enhancement Based on a Recursive Digital Filter by Using Cascaded Distributed Grid-Solar PV System	21-07-2022 to 23-07- 2022	Sreenidhi Inst. of Science & Tech, Hyderabad, India
7	Dr. L. Shanmukha Rao	Design of Novel Non-Isolated Modified SEPIC Converter Based Onboard PEV Charger	21-07-2022 to 23-07- 2022	Sreenidhi Inst. of Science & Tech, Hyderabad, India
8	Dr. L. Shanmukha Rao	A Solar-PV/BESS Powered Multi-Input DC-DC Boost Converter Fed BLDC Motor Drive	21-07-2022 to 23-07- 2022	Sreenidhi Inst. of Science & Tech, Hyderabad, India
9	Dr. L. Shanmukha Rao	A Solar-PV Integrated Novel Reduced-Switch UPQC Device for Power-Quality Improvement	21-07-2022 to 23-07- 2022	Sreenidhi Inst. of Science & Tech, Hyderabad, India
10	Dr.P.P. Sharma	An Improved System Performance Using ANN-FUZZY Logic and MSHO Control for BES-Solar PV and Wind Plant Based Micro-Grid System	25-08-2022 to 26-08- 2022	College of Engineering Perumon, Kollam, Kerala
11	Mr. M. V. N. Murthy	Design of Novel Non-Isolated Modified SEPIC Converter Based Onboard	21-07-2022 to 23-07- 2022	Sreenidhi Inst. of Science & Tech, Hyderabad, India

		PEV Charger		

Table B.5.8.1d: Total No. of Books/Book Chapters

S. No	Name of the Faculty	Book Chapters	ISBN NO
1	Dr. P.P. Sharma	P.P. Sharma et al., "Book Chapter on Enhancement of Power Quality using Zig-Zag Transformer & VSC based DSTATCOM", 2023	ISBN NO. 978-93-5641-079-4
2		P.P. Sharma et al., "Book Chapter on Harmonic Elimination in VSI for Medium Voltage Applications",2022	ISBN NO. 978-620-5-63962-7

(B) Number of papers in SCI / Scopus / Books & Citations

Table B.5.8.1e: Number of papers in SCI / Scopus / Books & Citations

Name of the faculty	AY	No. of Papers					
		Non-SCI	SCI/ ESCI	SCOUPS	IEEE Conference /IET Conference	Books & Book's Chapter	Citations
Dr. K. Hari Krishna	2023 - 2024	-	-	02	-	-	-
	2022 - 2023	-	--	03	-	-	-
Dr. L. Shanmukha Rao	2024 - 2025	-	-	02	01	-	-
	2023 - 2024	-	-	09	-	-	-

	2022 - 2023				08		
Dr. G. Kishor Babu	2023 - 2024	-	01	-	-	-	-
	2022 - 2023	01	-	-	-	-	-
Dr. P. P. Sharma	2023 - 2024	-	-	05	-	-	-
Mr.M. V. N. Murthy	2023 - 2024	-	-	02	-	-	-
Mr. M. Ranjith Kumar	2023 - 2024	-	-	02	-	-	-

(C) Ph.D. guiding /Ph.D. awarded during the assessment period while working in the institute

Table B.5.8.1f: List of Faculty Guided Ph.D. Scholars

S. No	Name of Guide	Name of Scholar	University	Year
1.	Dr. Hari Krishna	Mrs. P. Naga Lakshmi	Annamalai University	2018
		Mr. R. Subba Reddy	Annamalai University	2018
2	Dr. L. Shanmukha Rao	Mr. P. Purnachandra Rao	Annamalai University	2019
		Mr. CH. Anil Kumar	Annamalai University	2019
		Mrs. P. Deepthi	Vignan University	2022

Table B.5.8.1g: Faculty awarded Ph.D. during the assessment period

S. No	Name of the Faculty	Research Area	University	Year of Award
1	Mr. M. Sriram Naik	Analysis of Multilevel Inverter for Direct Torque	Acharya Nagarjuna	2022

		Control of Three Phase Induction Motor	University, Guntur	
2	Mr. P.P. Sharma	Enhancement of stability for HVDC transmission system using soft computing techniques	Andhra University, Vishakapatnam	2024

5.8.2 Sponsored Research (20)

Nil

5.8.3. Development Activities (15)

A. Product Development

A)1	**Title of the Product developed:** Self-Healing network architectures with integrated AIbased anomaly detection		
	1	Name of the Inventor	Dr. K. Hari Krishna
	2	Designation	HOD& Professor
	3	Description	
		i	**Abstract / Brief description of the invention:** The proposed invention, termed "Self-Healing Network Architectures withIntegrated AI Based Anomaly Detection," is a comprehensive system designed to revolutionize the management and security of computer networks. This invention addresses the critical need for networks to maintain continuous, secure, and efficient operation in the face of various challenges such as cyber threats, hardware failures, and congestion due to the increasing volume and complexity of data traffic. Central to the invention is the use of artificial intelligence and machine learning algorithms that tirelessly monitor the networks health. These algorithms are trained on vast amounts of data to recognize normal network behavior and to detect deviations that may indicate potential issues such as attempted security breaches, unexpected downtimes, or performance degradations. The systems AI capability is dynamic; it evolves by learning from the network's ongoing activity, which enables it to adapt to new, previously unseen challenges effectively.
		ii	**Field of The Invention:** Self-Healing network architectures with integrated AIbased anomaly detection
		iii	**Background of the invention:** Traditionally, network management has been a largely reactive and manual endeavour. Network administrators would monitor systems for disruptions, security breaches, or performance bottlenecks, and respond accordingly. This approach, however, is no longer viable given the scale and sophistication of contemporary networks. With the advent of the Internet of Things (IoT), cloud computing, and the proliferation of mobile devices, the volume of data traversing networks has skyrocketed, as have the points of vulnerability. Moreover, the types of threats have evolved, becoming more advanced and harder to detect with conventional means. Cyber threats can now emerge from within the network due to compromised devices or evolve quickly to bypass traditional security measures. The dynamic nature of modern network traffic also means that what may be considered normal at one point could change, rendering static monitoring tools less effective.

		iv	**Schematic Diagrams if any with proper labelling:**

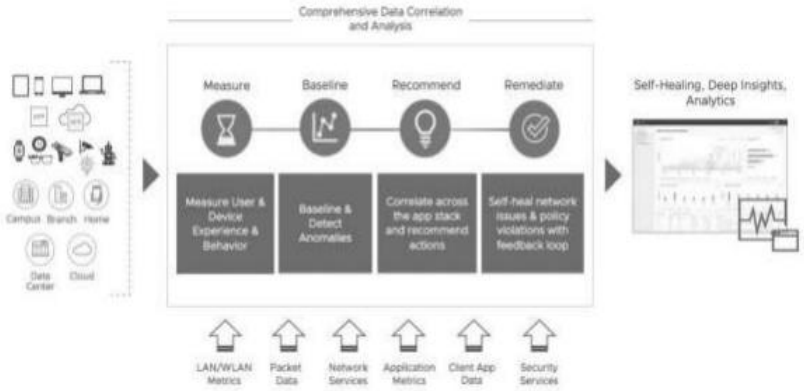


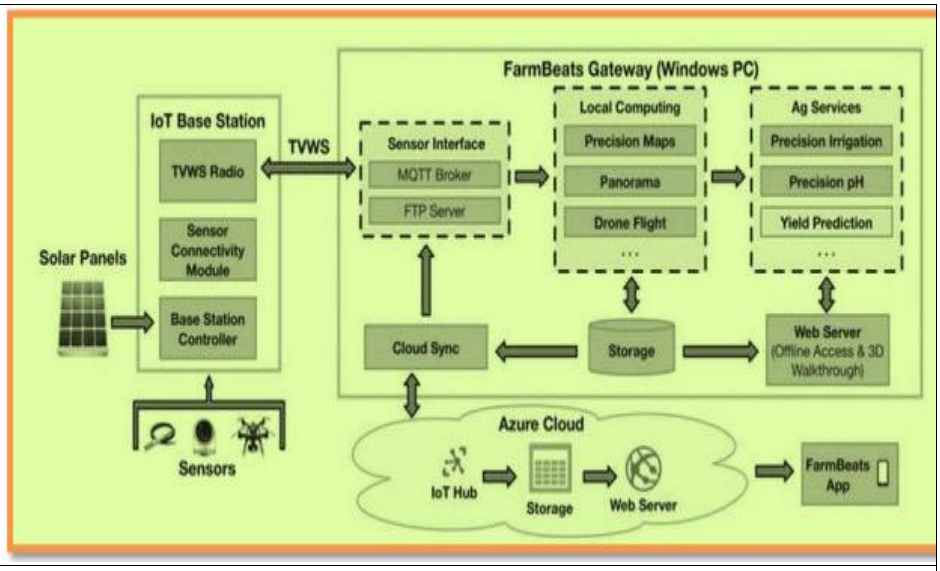
Fig1.Proposed System

4	**Recognitions if any:** Self-Healing network architectures with integrated AI based anomaly detection is field for the perfect with intellectual property, Chennai, Referred as **Application Number:**202341077370 **Cbr Date:**14/11/2023 14:28:50 **Application Status:**Design Accepted and Published, Journal No. 51/2023 and Journal Dated 22/12/2023	

A)2	**Title of the Product developed:** Human behaviour analysis using AI		
	1	Name of the Inventor	Dr. L. Shanmukha Rao
	2	Designation	Professor
	3	Description	
		i	**Abstract / Brief description of the invention:** The present embodiment relates to a need for a system and a method having embodied cognition with a humanlike physiology that may help AI learn in a more humanlike way, and therefore be smarter, and in ways closer to life. Further, there is a need for a system and method to employ common sense reasoning, in much the same holistic way that humans do. A system, a method, and a computer program product are provided herein that focuses on an AI enabled human emulation to control a robot to employ common sense reasoning, in much the same holistic way that humans do. The disclosed system architects the robot and AI in such a way that the robot gets better with people and also understands them better. The disclosed system models a non-brain physiology and uses it to inform the brain architecture to create an AI enabled human emulation system that can model what means to be human. In accordance with an embodiment, AI model is trained with machine learning to grow in a way similar to a human. In one aspect, the AI enabled human emulation system to control a robot may be provided. The AI enabled human emulation system may include at least one non-transitory memory configured to store computer program code, and at least one processor (hereinafter referred as processor) configured to execute the computer program code to obtain a trained AI model and sensor data from a surrounding environment of the robot. The AI model may be trained using brain emulation data and human body physiology simulation data. The processor may be configured to generate novel emergent pattern data to self-regulate the robot a based on the trained AI model and the sensor data. The processor may be further configured to control the robot that interacts with a user by expressing a behavior to the user, based on the novel emergent pattern data.
		ii	**Field of The Invention:** The present invention generally relates to the human behavior, particularly relates to a human behavior analysis using AI.

		iii	**Background of the invention:** Patent document with application – "CN116052221" is titled – "AI visual precision improvement method based on industrial digital twinning high-risk area human body behavior monitoring", disclose, the invention relates to the technical field of human body behavior recognition, in particular to an AI visual precision improving method based on industrial digital twinning high-risk area human body behavior monitoring. Comprising the steps of performing 1:1 simulation on a production environment of a high-risk industry through a digital twinning technology to construct a digital twinning workshop, constructing a human body unsafe behavior library, a production line high-risk area environment library and an explosion efficiency simulation library in a data center, simulating field conditions through real simulation, combining line human body unsafe behavior data materials, and performing simulation through a simulation technology and an artificial intelligence algorithm. And real human body behavior data is superposed in a high-risk environment of a digital twin system for simulated production, and whether the real human body behavior data are standard production behaviors and unsafe behaviors is judged. The invention aims to provide the AI visual precision improvement method based on industrial digital twinborn high-risk area human behavior monitoring, through a simulation technology and an artificial intelligence algorithm, the recognition precision of the artificial intelligence technology on high-risk area human behaviors is continuously improved, and the safety production risk is reduced".
		iv	**Schematic Diagrams if any with proper labeling:** Nil
	4		**Recognitions if any:** Human behavior analysis using AI is field for the perfect with intellectual property, Chennai, Referred as **Application Number:**202341062951 **Cbr Date:**19/09/2023 ,17:10:45 **Application Status:** Design Accepted and Published; Journal Dated
A)3	**Title of the Product developed:** Artificial Intelligence in smart farms		
	1	Name of the Inventor	Dr. G. Kishor Babu
	2	Designation	Professor
	3	Description	

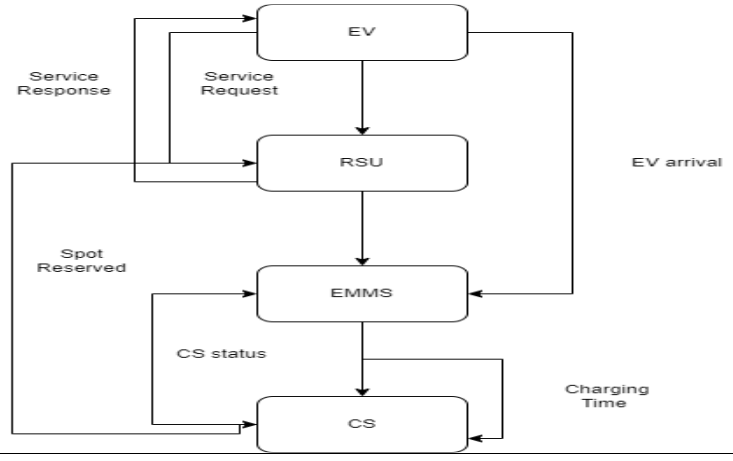
		i	**Abstract / Brief description of the invention:** The invention describes an intelligent irrigation system based on cloud computing that operates on the Internet of Things. The system consists of an intelligent irrigation cloud service platform, an intelligent irrigation cloud data centre, an Internet of Things terminal management controller, and an irrigation device; the irrigation device and a sensor are both connected to the Internet of Things terminal management controller; the Internet of Things terminal management controller is connected to the intelligent irrigation cloud data centre via a wireless network; and a user logs into the intelligent irrigation cloud service platform, the intelligent irrigation cloud data centre, and the irrigation device. By the system, the conception is novel, advanced cloud computing, the Internet of Things, big data, mobile application, and artificial intelligence technology are employed, the system is simple and easy to use, the system is timely, the networking is convenient, the reliability is high, the transmission rate is fast, and an advanced Internet of Things intelligent irrigation system based on cloud computing is provided for the application and promotion.
		ii	**Field of The Invention:** The present invention relates to a type of Intelligent irrigation system. More specifically, it relates to a type of Internet of Things and Artificial Intelligence (AI) irrigation system based on cloud computing. Specifically, the present invention relates to the Internet of Things and Artificial Intelligence (AI) irrigation system.
		iii	**Background of the invention:** Systematic ubiquitous function singleness, difficult operation, and low information sharing degree make it easy to build information islands in the existing water conservation sector application of DCS-based irrigation systems. It is also challenging to implement Irrigation Equipment Based Intelligent Control. To promote water conservation and agricultural industry information, the robotization and information system of industry-by-industry has increasingly used water conservation cloud, water conservancy Internet of Things, large data, mobile solution and artificial intelligence technology. Design an Internet of Things Intelligent Irrigation System based on cloud computing to promote water conservation.
		iv	**Schematic Diagrams if any with proper labeling:**

			
	4	**Recognitions if any:** Artificial Intelligence in smart farms is field for the perfect with intellectual property, Chennai, Referred as **Application Number:**202211003743 **Cbr Date:**22-01-2022 **Application Status:** Design Accepted and Published.	

<table>
<tr><td>A)4</td><td colspan="4">Title of the Product developed: A Solar Inverter Enclosure</td></tr>
<tr><td rowspan="6"></td><td>1</td><td colspan="2">Name of the Inventor</td><td>Dr. G. Kishor Babu</td></tr>
<tr><td>2</td><td colspan="2">Designation</td><td>Professor</td></tr>
<tr><td>3</td><td colspan="3">Description</td></tr>
<tr><td></td><td>i</td><td colspan="2">Abstract / Brief description of the invention:
A solar inverter enclosure is a protective housing designed to house and safeguard a solar inverter, a critical component in a photovoltaic (PV) system, by providing environmental protection from elements like weather, dust, and physical impact, while also facilitating efficient heat dissipation to maintain optimal inverter performance and lifespan, allowing for reliable conversion of direct current (DC) power from solar panels into usable alternating current (AC) for household applications.</td></tr>
<tr><td></td><td>ii</td><td colspan="2">Field of The Invention:
This study presents the design and analysis of a solar inverter enclosure aimed at maximizing the lifespan and efficiency of a grid-tied photovoltaic system. The enclosure incorporates a robust weatherproof design with optimized ventilation to facilitate heat dissipation, utilizing materials with high thermal conductivity to maintain optimal operating temperatures. By providing protection against environmental elements and facilitating easy access for maintenance, the enclosure significantly enhances the reliability and performance of the solar inverter, contributing to increased energy production from the PV system.</td></tr>
<tr><td></td><td>iii</td><td colspan="2">Background of the invention:
Meanwhile, the inverter product of high-quality, low cost becomes the problem that electro-optical system developer and users pay close attention to gradually. Inverter is an important application aspect of power electronic technology. Power electronic technology is electric power, electronics, the automatically multiple technologies such as control and semiconductor interpenetrate and the complex art organically combined. Therefore, the ken involved by inverter and technology contents are very extensive.</td></tr>
<tr><td></td><td>iv</td><td colspan="2">Schematic Diagrams if any with proper labeling:</td></tr>
</table>

	4	**Recognitions if any:** A solar inverter enclosure is field for the perfect with intellectual property, Chennai, Referred as **Application Number:**348925-001 **Cbr No:**129269 **Cbr Date:**16-02-2023 **Application Status:** Design Accepted and Granted.	

<table>
<tr><td>A)5</td><td colspan="4">Title of the Product developed: A Smart Urban Traffic Electric Vehicle Charging Control System for Smart Cities</td></tr>
<tr><td rowspan="5"></td><td>1</td><td colspan="2">Name of the Inventor</td><td>Dr.P.P. Sharma</td></tr>
<tr><td>2</td><td colspan="2">Designation</td><td>Professor</td></tr>
<tr><td>3</td><td colspan="3">Description</td></tr>
<tr><td></td><td>i</td><td colspan="2">Abstract / Brief description of the invention:
Over the next several years, the expected increase in the number of electric cars (EVs) will assist to cut CO2 emissions in our cities. The most of work on this subject focuses on EV charging management in terms of energy-scheduling at the CS, but it neglects EV mobility. Each vehicle is fitted with a global positioning system (GPS) as well as an on-board unit (OBU) that enables vehicle-to-everything (V2X) communication. The solution has access to traffic conditions acquired either directly from the network (e.g., a VANET) or from any external traffic service. The CS selection mechanism looks for the CS with the shortest service time for the EV, which is largely decided by charging time. By integrating the whole
journey time to the EV's trip destination with an interim parking period for charging at candidate CS, the optimum CS is selected using Algorithm. To shorten total route time, we first examine the influence of traffic conditions on the EV's path to its destination, as well as an interim recharging stop at the specified CS. We also provide a method for EVs and roadside units to communicate charging service notifications (RSUs). The structure must be highly dynamic and flexible in order to provide the EV charging service without interfering with smart city road safety services.</td></tr>
<tr><td></td><td>ii</td><td colspan="2">Field of The Invention:
The field of this invention relates to EV battery charging, optimizing and find the suitable CS based on the traffic control system in smart cities to enable the EV charging service while not interfering with smart city road safety services, the structure must be very dynamic and adaptive. A strategy to handle EV charging strategy, with an emphasis on selecting a CS for energy-demanding EVs and Reservations for expected charging sessions were made through foundation for cost-effective communication.</td></tr>
</table>

		iii	**Background of the invention:** The rapid use of EVs in modern environment has prompted various studies into the influence of EVs on the electricity network. As the number of EVs increases, a new concern for drivers develops in terms of charging stations (CS). In practice, charging an electric vehicle's battery is a time-consuming procedure, while fast-charging stations and the ability of EVs to handle various sorts of charge levels assist to minimize charging time. Another possibility for depleted batteries in electric vehicles is battery replacement systems. When compared to plug-in or inductive charging, it saves significant time at charging points. As a result, due of the relatively lengthy time required to charge an EV battery, optimizing where to recharge has become a major research challenge in latest years. Vehicles can use this area to send service messages to other vehicles or to RSUs (roadside units) situated across the city. EV drivers can shorten their charging service 3 times by cooperating with other vehicles in this fashion. Furthermore, a cooperative arrangement like this would help the smart grid (SG) handle a centralized charging slots reservation scheme in the city's CS more efficiently. In a summary, we carefully create an efficient EV charging service for metropolitan locations where EVs with a critical state of charge (SoC), i.e., inadequate battery capacity to continue the journey, would require charging. The majority of the new studies on this topic focuses on EV charging management in terms of energy-scheduling at the CS, but they ignore EV mobility. Selecting an appropriate CS for the EV throughout its driving phase and designing communication architecture to support the EV charging service are two problems in this respect.
		iv	**Schematic Diagrams if any with proper labeling:** 

	4	**Recognitions if any:** A Smart Urban Traffic Electric Vehicle Charging Control System for Smart Cities is field for the perfect with intellectual property, Chennai, Referred as **Application Number:**202241029643 **Cbr Date:**24-05-2022 **Application Status:** Design Accepted and Published.

A)6	**Title of the Product developed:** Graphene-Based Supercapacitors with Carbon Nanotubes To Power Up Electric Cars		
	1	Name of the Inventor	Dr.P.P. Sharma
	2	Designation	Professor
	3	Description	
		i	Abstract / Brief description of the invention: Researchers' future visualization of automobiles of a car's body is just not to be a load bearing material but can be multi functionally productive. In correlation recent studies on carbon fibre has produced results to show that it has a multifunctional primary properties like battery electrode and storing energy material. This study has opened up diverse opportunities in designing structural batteries where carbon acts a part for energy system. For instances, carbon fibre can be used yield kinetic energy for sensors or for conductors of both energy and data which in turn reduces the weight of the vehicle as well. The reason for carbon nanotube to be used in harvesting the current instead of many available nanomaterials is because, the carbon fibre structure is observed are small and deprived in orientation as well, in spite they have good electrochemical properties that is well suitable for use in structural batteries. This property will aid in key optimization of vehicles in determining their weight, strength and durability. Additional to existing carbon nano fibre, flexible graphene based thin film supercapacitor can be incorporated which acts as electrodes. These graphene sheets to be incorporated are produced under controlled thickness using vacuum filtration method and electrochemical exfoliation. A very thin graphene is capable of yielding extraordinary capacitance say <1 μm. Using this thin graphene sheets a solid-state supercapacitor is developed to sandwich a thin layered of gelled electrolyte. Therefore, it is noted only CNTs exhibit the capacitance ∼0.4 mF cm−2 whereas compounding 400 nm graphene with CNTs improves the capacitance to about ∼4.3 mF cm−2. Combining both the qualities of carbon nano fibres and graphene, the harvest of power density, energy density and capacitance increase drastically. Thus, the propounded idea of incorporating graphene-based supercapacitors on vehicles panels with carbon nanotubes to power up electric car's will be an advantage in both automobile and aviation industries.
		ii	**Field of The Invention:** The field of this invention relates to mechanical engineering and more

			particularly in the development of a Graphene-based supercapacitors with carbon nanotubes to power up electric cars
		iii	**Background of the invention:** Batteries has been a traditional way of powering up any kind of automobiles that are in existence. Throwing spot light on four wheelers particularly cars, lead acid batteries has been as a power up element. Lead acid car batteries are made up lead and lead dioxide plates immersed in a mixture of 35% sulphuric acid and 65% water as an electrolytic solution. During power of car and its components, discharge of current is done by depletion of sulphuric acid from the electrolytic solution. This depleted gets as sediments later and also becomes the reason thar car does not power up. Obviously in good condition of batteries, during charging the depleted sulphate returns to the electrolytic solution. Thus, the lead acid battery's high power for its weight, along with its cost, makes it attractive for use in cars. This type of battery is capable of providing the high current required by the starter motor to crank the car's engine. The limitation of using such kind of technology is cleaning the terminals periodically using water and a wire brush will prevent the corrosion of battery terminals. To overcome, such kind of limitation, recently researchers have proven evidently that carbon fibres have been the efficient battery electrodes storing direct energy system. Incorporating such carbon fibres with Graphene-based supercapacitors would reduce the flat battery, corrosion, short circuits sulphation, low electrolytic level, damages and breakages to internal connection due to corrosion and vibration.
		iv	**Schematic Diagrams if any with proper labeling:**
	4		**Recognitions if any:** Graphene-Based Supercapacitors with Carbon Nanotubes to Power Up Electric Cars is field for the perfect with intellectual property, Chennai, Referred as **Application Number:**202241001636 **Cbr Date:**28-01-2022 **Application Status:** Design Accepted and Published

A)7	**Title of the Product developed:** Feed Motor in Automation of Agribot Using Ml		
	1	Name of the Inventor	Mr.M.Ranjith Kumar
	2	Designation	Assistant Professor
	3	Description	
		i	**Abstract / Brief description of the invention:** The present embodiment involves a schematic flow of operations which are performed in sequence making the robot to jump and fly which is by consecutive jumps in order to kill the locust population where Machine Learning algorithm provides training to the system. Main focus is on preparing the robot for consecutive jumps once after it fells back on the ground after the first jump which depends on the torsion spring. First step involves loading of the spring which closes the legs of the robot, once after closing of robot legs they are held in the same position by the latch mechanism. Readings from the accelerometer indicates the position of the robot whether it on its feet or any other position such that next jumps can be preceded. Next step in the program is to rotation of the robot in the desired direction, in case if the robot is not on its feet then releasing of the wire by turning the motor for a short period makes the robot steady on its feet. By this approach, ability of flipping and turning is achieved by the robot without the necessity of extra motor for the system, thereby accomplishes all the functions using the same motor.
		ii	**Field of The Invention:** The present invention generally relates to the feed motor, particularly relates to a feed motor in automation of Agribot. More particularly, the present invention relates to a feed motor in automation of Agribot using ML.
		iii	**Background of the invention:** Patent document with application – "IN202141052936" is titled – "IoT and machine learning-based robotic digital twin for object segregation", disclose, an exemplary aspects of the present disclosure are directed towards the Industrial IoT and Machine Learning-based Digital Twin for Object Segregation, comprising of Object Identification Device (OID)-101, Smart Conveyor Platform (SCP)-102, Robotic Arm (RA)-103a with 6-Degree of Freedom, a Digital-Twin (DT)-104 communicated via a suitable Wireless Communication Channel (WCC)-105. Microcontroller-101a integrated with Camera-101b mounted on a servo motor formulates OID-101, capturing the type and quantity of objects through Video-Image 101b-1. Microcontrollers 101a executes

			appropriate Machine Learning Algorithms 030 assess the type 107 quantity 108 and speed 109 for Conveyor 102. Once Object quantity 108 is established by OID 101 through Video-Images 101b-1, the objects moving on the conveyor mechanism are sorted based on a predefined sorting algorithm or commands received from DT-104. Robotic Arm (RA) 103 sorting process, object-detection, and conveyor speed are updated in real-time Virtual/Augment Reality platform through sensors placed on all embodiments through WCC 105 to Cloud-based Digital-Twin (DT) 104. wherein, the present invention is a feed motor in automation of Agribot using ML.
		iv	**Schematic Diagrams if any with proper labeling:** Nil
	4	**Recognitions if any:** Feed Motor in Automation of Agribot Using Ml is field for the perfect with intellectual property, Chennai, Referred as **Application Number:**202341062501 **Cbr Date:**06-OCT-2023 **Application Status:** Design Accepted and Published	

B. Research Laboratories

Projects and innovation laboratory

Projects and Innovation lab (P&I Lab) is created in the department to support and motivate students towards innovation and to take-up in-house hobby projects. P and I lab provides space and necessary equipment / tools where the students can make and assemble their mini and major projects while working in groups. The ambiance in the lab is improved by showcasing some of the projects and innovations by our students. The projects and Innovation lab is provided with the following equipment and software.

Table B 5.8.3a: Projects and innovation laboratory

S. No.	Details of the Facilities	Purpose	Utilization
1	MAT LAB (Image Processing, Control System, Fuzzy Logic, Neural Network, Optimization Toolbox)	Student Hobby Projects	UG students
2	PSPICE Software (TINA V9)	Projects	

C. Instructional materials

The faculty members have developed the instructional materials, Book chapters and prepared video lectures.

Table B5.8.3b: Instructional materials, Book chaptersand video links

S. No	Name of the Faculty	Name of the subjects	Instructional Materials Link
1	Dr. L. Shanmukha Rao	Switch Gear & Protection	https://classroom.google.com/c/NzM3ODY0MDUxOTI5?cjc=db5wwiq
2	Dr. G. Kishor Babu	Control Systems	https://classroom.google.com/c/NzUwNTI4NDQ2NTgw?cjc=i2hqwms
3	Dr.P.P. Sharma	Induction & Synchronous Machines	https://classroom.google.com/c/NzUwNTI3ODE2NzE3?cjc=ylcwlca
3.	Mr. M. Ranjith Kumar	Power Systems-I	https://classroom.google.com/c/NzM3ODY0MTQyMzAx?cjc=vnxa2w3
4.	Mrs. P. Kavitha	Renewable Energy Sources	https://classroom.google.com/c/NzM3ODYzNzE1NzY3?cjc=dse7qvq

D. Monograms – The faculty members have developed the following laboratory manuals for enhancing student learning. The department has working models and Charts displayed in laboratories which are developed by faculty. The details are given in the Table B. 5.8.3j

Table B5.8.3c: Monograms / Laboratory Manual developed by faculty

S. No	Name of the Faculty	Instructional Materials	Reference Number
1.	Dr. P. P. Sharma	Power Electronics Lab manuals, Course handout.	KHIT/EE/C507
2.	Mr. D. Sambasiva Rao	Electrical Circuits Lab manuals, Course handout.	KHIT/EE/C307
3.	Mrs. P.Kavitha	DC Machines & Transformers Lab manuals, Course handout.	KHIT/EE/C308
4.	Mr. M. V. N. Murthy	Induction & Synchronous Lab manuals, Course handout.	KHIT/EE/C407
5.	Dr. G. Kishor Babu	Control Systems Lab manuals, Course handout.	KHIT/EE/C409
6.	Mr. V. Rajesh	Electrical Measurements & Instrumentation Lab manuals,	KHIT/EE/C408

		Course handout.	
7.	Mr. P. Venubabu	Electrical Simulation Lab manuals, Course handout.	KHIT/EE/C508
8.	Mr.J. Sunil Babu	Power Systems and Simulation Lab manuals, Course handout.	KHIT/EE/C608

5.8.4 Consultancy (from Industry) (20)

Table 5.8.4: Number of Consultancy Jobs / Works

S.No	Academic Years	Total Number of Consultancy Job / Works
1	CAYm1(2024-25)	**01**
2	CAYm2(2023-24)	--
3	CAYm3(2022-23)	01
4	CAYm4(2021-22)	01
	TOTAL	03

CAYm2(2024-24)

S. No	Consultancy Job/ Work	Testing Date	Client Name	Amount Sanction	Status
1	Condition Monitoring Using IRT and Power Audit	15.06.2022	Kallam Agro Products & Oils Pvt. Ltd	3,00,000	Completed

CAYm2(2022-23)

S. No	Consultancy Job/ Work	Testing Date	Client Name	Amount Sanction	Status
1	Condition Monitoring Using IRT and Power Audit	15.06.2022	Kallam Agro Products & Oils Pvt. Ltd	3,00,000	Completed

CAYm3(2021-22)

S. No	Consultancy Job/ Work	Testing Date	Client Name	Amount Sanction	Status
1	Condition Monitoring Using IRT and Power Audit	15.09.2021	Kallam Agro Products & Oils Pvt. Ltd	3,00,000	Completed

5.9 Faculty Performance Appraisal and Development System (FPADS) (10)

Faculty Performance Appraisal Format

A Comprehensive annual performance appraisal form designed by the affiliating University in line with AICTE/UGC guidelines is administered to evaluate performance of each Faculty member. The filled-in Annual performance self-appraisal form is submitted by each faculty member after completion of academic year to the Head of the institution through the head of the department.

The college academic committee consisting of all the heads of the departments scrutinize the self-appraisal forms and finalize API score. The forms with final API scores are sent back to the faculty for verification of the score. The academic council submits a final annual report to the head of the institution. The head of the institution issue commendation letters/letters seeking explanation to the faculty members.

Faculty Annual Performance Appraisal – APIs

1. Name : Dr. G. Kishor Babu
2. Designation : Professor
3. Department : Electrical and Electronics Engineering
4. Qualifications : M. Tech, Ph.D.,
5. Ratification Details : Yes

Ratified in Professor

CATEGORY: I. TEACHING, LEARNING AND EVALUATION ELATEDACTIVITIES

(i) Lectures, Seminars, Tutorials, Practicals, Contact Hours (give semester –wise details, where necessary)

S.No.	Course/Paper	Level	Mode of Teaching*	Hours per week allotted	% of classes taken as per documented record
1	Basic Electrical and Electronics Engineering	UG	Lectures	3	100
2	Basic Electrical and Electronics Engineering	UG	Lectures	3	100
3	Control Systems	UG	Lectures	3	100
4	Network Analysis	UG	Lectures	3	100
5	Control Systems Lab	UG	Practicals	3	100

Lecture (L) Seminars (S), Tutorials (T), Practical (P), Contact Hours (C)

		API Score
(a)	Classes Taken (max 50 for 100% performance & Proportionate Score up to 80% performance, below which no score may be given)	50
(b)	Teaching Load in excess of UGC norm (max score :10)	00

ii) Reading / Instructional material consulted and additional knowledge resources provided to students.

S.No.	Course /Paper	Consulted	Prescribed	Additional Resources provided
1	Basic Electrical and Electronics Engineering	Basic Electrical Engineering, D. C. Kulshreshtha, Tata McGraw Hill, 2019, First Edition	Basic Electrical Engineering, D. P. Kothari and I. J. Nagrath, Mc Graw Hill, 2019, Fourth Edition	Power Point Presentations, Learning Materials.

2	Control Systems	Control Systems principles and design by M. Gopal, Tata Mc Graw Hill education Pvt Ltd., 4th Edition.	Control Systems Engineering by I.J.Nagarath and M.Gopal, Newage International Publications, 5th Edition.	NPTEL, Power Point Presentations, Learning Materials.
3	Network Analysis	FundamentalsofElectric Circuits,CharlesAlexanderMathewN.O. Sadiku,3rdEdition,TataMcGraw-Hill,2019.	Circuits and Networks Analysis and Synthesis, A. Sudhakar, Shyam Mohan S. Palli,5thEdition,Tata McGraw-Hill,2017.	NPTEL, Power Point Presentations, Learning Materials.
API Score based on preparation and imparting of knowledge /Instruction as per curriculum & syllabus enrichment by providing additional resource to Students (max. score: 20)				**API Score**
				20

iii) Use of Participatory and innovate Teaching –Learning Methodologies, Updating of subject content, Course Improvement etc.

S.No	Short Description	API Score
1	Simple Questions & Group Discussion	10
2	Introduced ICT technology to teach to the students.	10
3	Attending workshops	10
4	Used in T/L process with computer aided methods like power point/ and videos and PPT etc.,	10
	Total Score (Max. Score: 20)	20

iv) Examination Duties Assigned and Performed

S. No	Type of Examination Duties	Duties Assigned	Extent to which carried out (%)	API Score
1	Invigilator	Invigilation for MIDs Exams, College/ University and Semester / Annual Examinations	100%	20

2	Chief Examiner	Moderator, Evaluator for paper, Schame and Key	100%	20
3	Internal and External Lab Examiner	Evaluation	100%	10
	Total Score (Max.25)			25

CATEGORY: II CO-CURRICULAR, EXTENSION, PROFESSIONAL DEVELOPMENT RELATED ACTIVITIE

S. No	**Type of Activity**	**Average Hrs./Week**	**API Score**
	(i) Extension, Co-curriculum & Field based activities.		
1	Student Counseling	1hr/Week	10
2	Remedial classes for Poor students	2 hr/Week	10
3	Workshops/Seminars for B. Tech	Minimum 21hrs per semester	10
	Total (Max. 20)		20
	(ii) Contribution to Corporate Life and Management of the Institution	Yearly/Semester wise responsibility	API Score
1	Participation in academic monitoring committee and other administrative jobs like Course Coordinator and departmental NBA Coordinator etc.,	Yearly	10
2	Panel Member in B. Tech Reviews	Semester	10
3	Coordinator IQAC	Yearly	10
	Total (Max. 15)		15
	(iii)Professional Development Activities		
1	Participated short term training courses and in curriculum development		10
2	Professional body memberships Member of IEEE -		15

	98073586 Member of ISSE - LM03697 Member of EI - M-160786-8 Fellow of ISRD - F3140900876 Member of IAENG - 160316 Member of IDES - 5042 Member of SDIWC - 18552 Senior Member of IRED - SNM10100059267 Member of ICSES - 1872		
3	Research Gate		5
	Total (Max. 15)		15
	Total Score (i + ii + iii) (Max. 25)		25

CATEGORY III: (Research, Publications & Academic Contributions)

Note: Please read the instructions given at the end of Proforma for calculating API Score in eachcategory.

(A) Published Papers in Journals

S.No	Title with page no.	Journal	ISSN / ISBN No.	Whether peer reviewed. Impact factor, if any	No. of Coauthors	Whether you are the main author	API Score
1	Analysis of a Bi-Directional Power Converter of Electric Vehicle	Journal of Systems Engineering and Electronics	1671 - 1793	ESCI 5.7	2	Yes	4

B (i) Articles / Chapters published in Books

S.No	Title with page no.	Book Title, editor & publisher	ISSN / ISBN No.	Whether peer reviewed	No. of authors and date of publications	Whether you are the main author	API Score
	Nil						

B (ii) Full papers in Conference Proceedings

S.No	Title with page no.	Details of conference Publications	ISSN / ISBN No.	No. of Co-authors and date of publication	Whether you are the main author	API Score
	Nil					

B (iii) Books published as single author or as editor

S.No	Title with page no.	Type of Book &Authorship	Publisher ISSN / ISBN No.	Whether peer reviewed	No. of Co author and date of publications	Whether you are the main author	API Score
	Nil						

C (i&ii) Ongoing Research projects and consultancies

S.No	Title	Agency	Period	Grant/Amount Mobilized (Rs Lakhs)	API Score
	Nil				

C (iii&iv) Completed Projects and Consultancies

S.No	Title	Agency	Period	Grant/Amount Mobilized (Rs Lakhs)	Whether Policy Documents / Patent as	API Score

					outcome	
Nil						

(D) Research Guidance

S.No	Number Enrolled	Thesis Submitted	Degree Awarded	API Score
M.Tech or Equivalent	-	-	-	-
Ph.D or Equivalent	-	-	-	-

E (i) Training Courses, Teaching –Learning - Evaluation Technology, Faculty Development Programmes

S.No	Programme	Duration	Organized by	API Score
1	NSQF Aligned Skill Development	One Week	Narasaraopet Engineering College	2

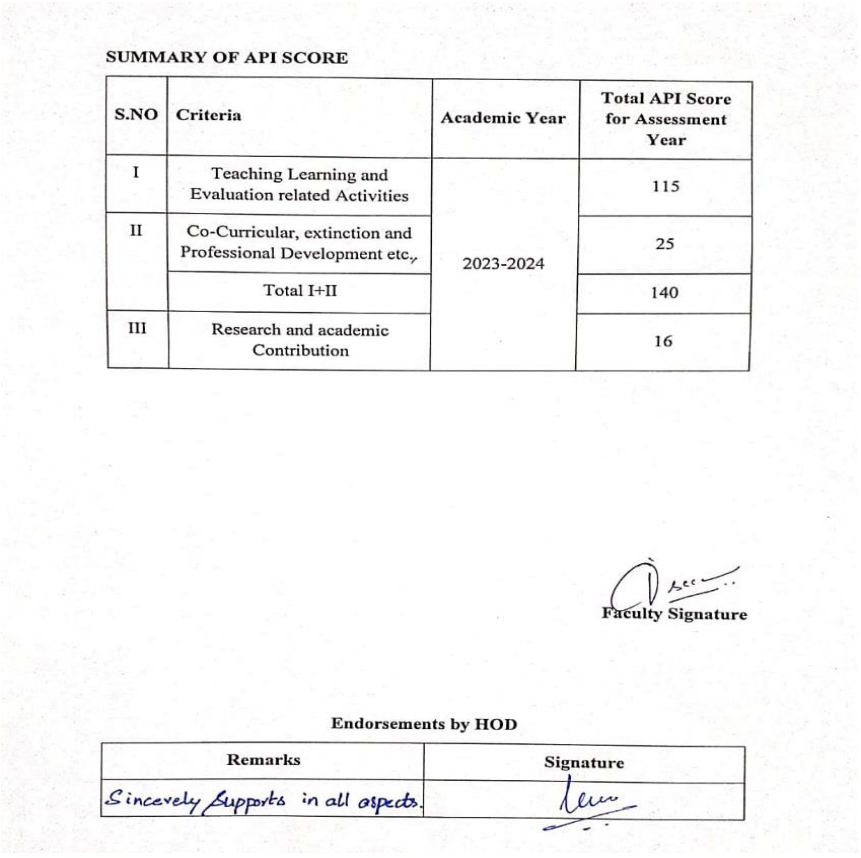
E (ii) Papers presented in Conferences, Seminars, Workshops, Symposia

S.No	Title of the paper presented	Title of Conference / Seminar etc	Date (s) of the event	Organized by	Whether International/ National/State/ Regional / University or college Level	API Score
	Nil					

E (iii) Invited Lectures and Chairmanships at National or international Conference / Seminars

S.No	Title of Lecture / Academic Session	Title of Conference / Seminar etc	Date (s) of the event	Organized by	Whether International/ National/State	API Score

1	Application of block chain technology in rural area	4 Weeks online TEDP	05/09/2023 to 28/09/2023	REC	International	10



SUMMARY OF API SCORE

S.NO	Criteria	Academic Year	Total API Score for Assessment Year
I	Teaching Learning and Evaluation related Activities	2023-2024	115
II	Co-Curricular, extinction and Professional Development etc.,		25
	Total I+II		140
III	Research and academic Contribution		16

Faculty Signature

Endorsements by HOD

Remarks	Signature
Sincerely Supports in all aspects.	

ii) FPADS Implementation and Effectiveness:

CAYm1:2023-24

S. No	Faculty Name	Designation	SCORE			Total API Score
			Teaching Learning and Evaluated Activities	Co-Curricular, extinction and Professional Development Activities	Research, Publications and academic Publications	
1	Dr. K. Hari Krishna	HOD & Professor	115	25	18	158
2	Dr. L. Shanmukha Rao	Professor	115	25	24	164

3	Dr. G. Kishor babu	Professor	115	25	16	156
4	Mr. P. P. Sharma	Associate Professor	115	25	16	156
5	Mr. R. Subbareddy	Associate Professor	115	25	2	142
6	Mr.M.V.N. Murthy	Assistant Professor	115	25	6	146
7	Mr. V. Rajesh	Assistant Professor	115	25	2	142
8	Mr.P. Venubabu	Assistant Professor	115	25	2	142
9	Mr.M. Ranjith Kumar	Assistant Professor	115	25	6	146
10	Mrs. P. Kavitha	Assistant Professor	115	25	2	142
11	Mr. J. Sunil babu	Assistant Professor	115	25	2	142
12	Mrs. P. Naga divya	Assistant Professor	115	25	2	142
13	Mr. D. Sambhasiva Rao	Assistant Professor	115	25	2	142
14	Dr. M. S. Naik	Associate Professor	115	25	02	142
15	Mrs. P. Nagajyothi	Assistant Professor	115	25	02	142
16	Mr. K. Gopi Krishna	Assistant Professor	115	25	02	142

iii) FPADS Actions Taken:

S.No	Faculty Name	Designation	Commendation/Corrective Action
Nil			

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

Table B.5.10: Parturition of industry experts in teaching and learning and/or research

S. No	Assessment Year	Details of the Industry Expert/Emeritus Faculty	Academic credentials	No. of Hours of Interaction	Topics covered
1	CAY	Mr. A. Lakshmi Narayana Asst. Executive Engineer, APCPDCL, Kunchanapalli, Guntur, Andhra Pradesh, India.	B. Tech	50	1. Circuit Breakers, 2. Generator Protection, 3. Static relays, 4. Applications of relays 5. Transformer Protection
2	CAYm1	Mr. A. Lakshmi Narayana Asst. Executive Engineer, APCPDCL, Kunchanapalli, Guntur, Andhra Pradesh, India.	B. Tech	50	1. Circuit Breakers, 2. Generator Protection, 3. Static relays, 4. Applications of relays 5.TransformerProtection
3	CAYm2	Er. Ravikumar T. Specialist-Electrical (Engineering Generation) at TATA Power, Mumbai, India.	B. Tech	50	1. Sources of Energy – Resources, 2. Power Plant Economics and Environmental Considerations, 3. Steam Power Plant, 4. Diesel Power Plant, 5. Hydro Electric Power Plant 6. Power From Non-Conventional Sources

CRITERION 6	Facilities and Technical Support	80

6.1. Adequate and well-equipped Laboratories, and technical man power (40)

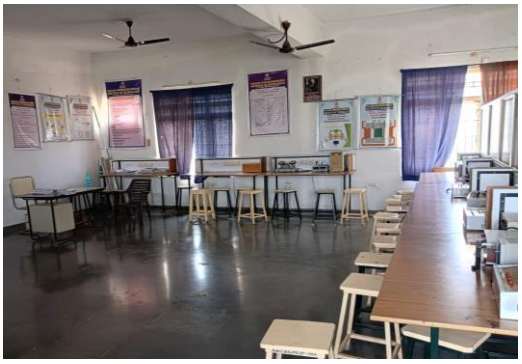
Table B.6.1: Laboratories and Technical Manpower Details

S. No	Name of the Laboratory	No. of Students per setup (Batch size)	Name of the important equipment	Weekly utilization status (all the courses for which the lab is utilized)	Technical Manpower support		
					Name of the technical staff	Designation	Qualification
1	**Electrical Circuits Lab (1T-06)**	6 (30)	1. Regulated power supplies, 2. Signal generator, 3. Decade resistance boxes, 4. Decade inductance boxes, 5. Decade capacitance boxes	100% B.Tech-CE B.Tech-EEE B.Tech-ME B.Tech-ECE B.Tech-CSE	Mr. TVS Sai	Lab Technician	B.Tech EEE
2	**Electrical Machines Lab (4G-01)**	6 (30)	1. Rectifier panel, 2. DC Shunt motor, 3. DC Series motor, 4. DC Compound motor, 5. DC Shunt generator,	60% B.Tech-EEE B.Tech-ME B.Tech-ECE B.Tech-CSE	Mr. M.Kotes wara rao	Lab Technician	B.Tech EEE

			6. DC Series generator, 7. Single Phase Transformer 8. Three Phase Transformer. 9. Squirrel cage type Induction motor, 10. Slip ring type induction motor, 11. Single phase capacitor start induction motor 12. Synchronous machine.	B.Tech-CE			
3	**Electrical Measurements Lab (1T-06)**	6 (30)	1. Regulated power supplies 2. CT testing kit 3. Crompton potentio-meter kit, 4. Kelvin's double bridge kit, 5. Anderson bridge kit, 6. Single Phase and Three Phase inductive load.	20% B.Tech-EEE	Mr.P.Santhi Babu	Lab Technician	B.Tech EEE
4	**Control Systems Lab (1T-03)**	6 (30)	1. Time response kit, 2. Lead Lag compensator kit, 3. Temperature controller kit, 4. Magnetic Amplifier kit, 5. AC Servo motor kit.	20% B.Tech-EEE	Mrs.A. Pavani	Lab Technician	ITI
5	**Power Electronics Lab (1T-03)**	6 (30)	1. SCR, 2. MOSFET, 3. IGBT, TRIAC,	20% B.Tech-EEE	Ms. Ch.Vaishnavi	Lab Technician	ITI

			4. R & RC UJT Firing kit , 5. 1-Phase & 3-Phase Half Controlled and Full Controlled converters kit, 6. 1-Phase AC voltage Controller kit, 7. 1-Phase Cyclo converter, Series and Parallel Inverters, 8. 1-Phase PWM Inverter.				
6	**Power Systems Lab (2F-11)**	6 (30)	1. 1- Phase sequence of an Alternator kit, 2. Three phase transformer kit, 3. Tong tester kit, Dielectric oil testing kit, 4. Transmission line parameter panel & PCs	30% B.Tech-EEE	Mr. T.Veerab rahmam	Lab Technician	B.Tech
7	**Electrical Simulation Lab (1T05)**	3 (30)	1. Computers 2. Battery backup for RAM 3. Elevator Interface 4. Power supply 5. PC keyboard	80% B.Tech-EEE B.Tech-ECE	Mrs. K.Jyothi	Lab Technician	B.Tech
8	**Projects and Innovation Lab (1F08)**	---	1. Computers (HP PRO 3330MT, Intel Core i3 Processor, 500GB HDD, 4GB RAM (DDR3) + 3.3GHz) 2. MATLAB	30% B.Tech-EEE	Mr. Brahma Reddy	Lab Technician	B.Tech

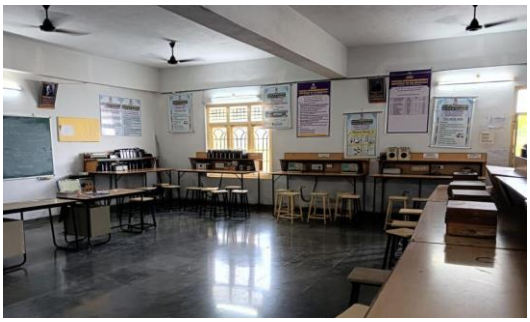
			3. Soldering Kit 4. Digital multimeters 5. Storage Oscilloscope 6. Servo Voltage Control Stabilizer				



Control Systems Lab

Electrical Machines Lab

Power Electronics Lab



Electrical Measurements Lab

Electrical Circuits Lab

Fig.6.1: Laboratories in the department

6.2. Laboratories Maintenance and overall ambiance (10)

Maintenance:

The Department of Electrical and Electronics Engineering has sufficient number of laboratories, which are used throughout the year. The laboratories cater to UG students of Electrical and Electronics Engineering (EEE).

Maintenance Regime:

a. Periodic maintenance

Standard checks are carried out at specified periods and logs are maintained.

b. Condition-based maintenance

Equipment and devices are observed for abnormalities during operation and measures are taken as deemed as necessary and logs are maintained.

c. Breakdown maintenance

Breakdown maintenance is undertaken as situation demands. History of breakdown and corrective actions are maintained.

d. Calibration:

1. The Process of calibration for various equipment and other instruments is taken up once every semester.
2. The measured values are compared with the earlier measured data and with the standard values.
3. Any deviations in this regard are noted and necessary steps are initiated to refine the equipment.
4. Department seeks the assistance of suppliers from time to time in order to maintain the equipment and to verify their performance
   (Minor repairs are carried out by the lab technical staff as per the requirement).

e. Records:

The following registers are maintained in the laboratories i.e.

1. **Log Register:** which contains in and out time of the students along with ID cards.
2. **Complaint Register:** Used to register the complaints during the usage.
3. **Stock Registers:** Used to note the stock-in-hand information i.e. equipment specification, quantity, and cost.

f. Ambience:

1. The Department has fullyfurnished state-of-the-art laboratories which shall cater to all UG courses as per curriculum requirements.
2. The Department has experienced faculty and technical staff who will support student learning
3. All the lab courses are evaluated throughout the semester (CIE)
4. Laboratory manuals are distributed to the students.
5. All the labs have good ventilation and an appropriate Lighting system.
6. Facilities available in each lab for students to place their belongings.
7. Each Lab is provided with a white/black board, computer, Internet and LCD projector.

8. Projects and Innovation laboratory is available for all faculty and students to carryout research work and projects.

6.3. Safety Measures in Laboratories (10)

The following safety measures ensure the safety of the students is provided in the laboratories.

S.No.	Name of the laboratory	Safety measures
1.	**Electrical Circuits Lab**	• Do's and Don'ts charts are displayed • Firefighting Equipment are placed at appropriate places • FIRST AID kit provided • Electric shock treatment chart is displayed
2	**Electrical Machines Lab**	• Do's and Don'ts charts are displayed • Firefighting Equipment are placed at appropriate places • FIRST AID kit provided • Electric shock treatment chart is displayed
3	**Control Systems Lab**	• Do's and Don'ts charts are displayed • Firefighting Equipment are placed at appropriate places • FIRST AID kit provided • Electric shock treatment chart is displayed
4	**Power Electronics Lab**	• Do's and Don'ts charts are displayed • Firefighting Equipment are placed at appropriate places • FIRST AID kit provided • Electric shock treatment chart is displayed
5	**Electrical Measurements Lab**	• Do's and Don'ts charts are displayed • Firefighting Equipment are placed at appropriate places • FIRST AID kit provided • Electric shock treatment chart is displayed
6	**Power Systems Lab**	• Do's and Don'ts charts are displayed • Firefighting Equipment are placed at appropriate places • FIRST AID kit provided • Electric shock treatment chart is displayed
7		• Do's and Don'ts charts are displayed in

	Electrical Simulation Lab	labs. • Firefighting Equipment's are placed at appropriate places • FIRST AID kit provided • Electric shock treatment chart is displayed
8	**Projects and Innovation Lab**	• Do's and Don'ts charts are displayed • Firefighting Equipment are placed at appropriate places • FIRST AID kit provided • Electric shock treatment chart is displayed

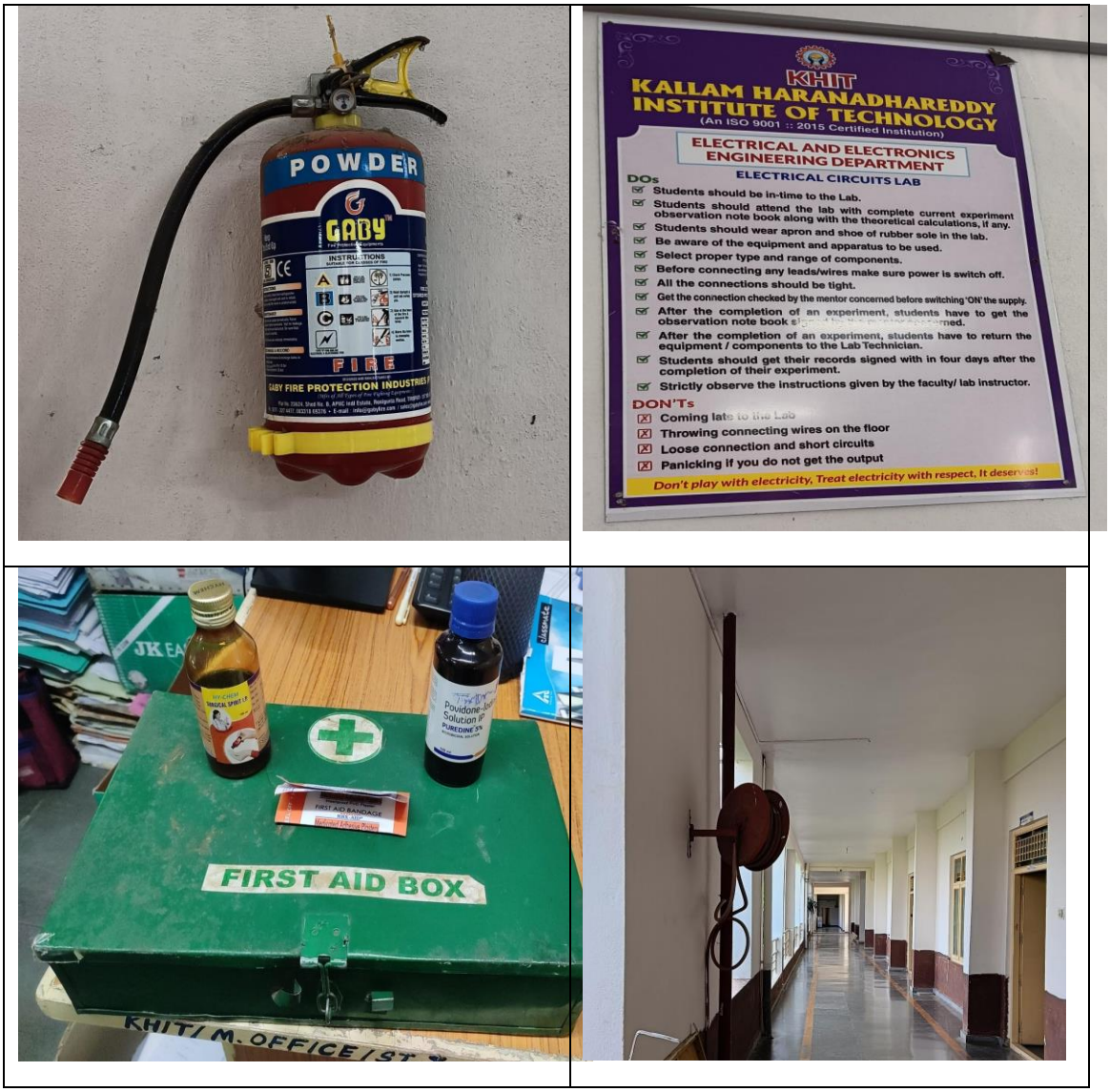


Fig.6.3. Safety measures in the Laboratories

6.4. Project Laboratory (20)

Student projects play an important role in enriching the educational experience of students during the course of study. Projects and Innovation lab (P&I Lab) is created in the department to support and motivate students towards innovation and to do In-House and Hobby projects. P&I lab provides space and necessary equipment / tools where the students can make & assemble their mini and major projects while working in groups. The ambience in the lab is improved by show casing some of the projects and innovations by our students. The projects and Innovation lab is provided with the following equipment and software.

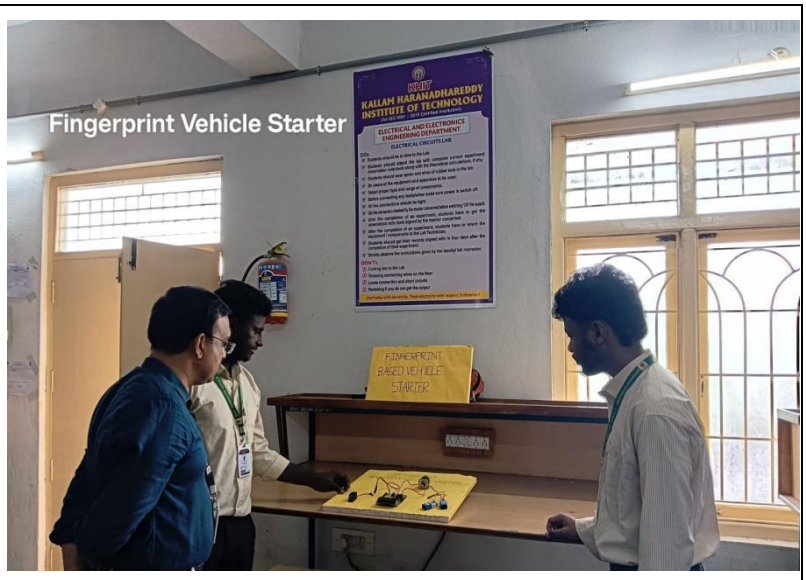
Table B.6.4a: Projects and Innovation Laboratory – Facilities and Utilization

S. No.	Details of the Facilities	Purpose	Utilization
1	MAT LAB (Image Processing, Control System, Fuzzy Logic, Neural Network, Optimization Toolbox)	Student Hobby Projects	UG students
2	PSPICE Software (TINA V9)	projects	

Table B.6.4b: In-house student Projects

S. No	Title of the Project	Abstract
1.	Electric Vehicle on Electric Roads	The integration of Electric Vehicles (EVs) with Electric Roads (ERs) represents a transformative step towards sustainable transportation. Electric Roads, which are roadways embedded with technologies to wirelessly charge EVs while in motion, offer a promising solution to address two major barriers in the widespread adoption of electric vehicles: limited battery range and long charging times. This project explores the technological, economic and environmental implications of this synergy. It delves into the various types of ER systems, including inductive and conductive methods, and evaluates their efficiency, infrastructure requirements and potential impact on energy consumption. Additionally, it discusses the role of smart grid systems in managing energy distribution to ERs and integrating them into existing transportation networks. By reducing dependency on traditional charging infrastructure and enabling continuous charging, ERs could significantly enhance the practicality and convenience of EVs, potentially accelerating the transition to a fully electric transportation ecosystem. Furthermore, the study addresses the potential challenges, such as the high initial investment costs and

		technical hurdles, and proposes strategies for overcoming them.
2.	Finger print Vehicle Starter	The fingerprint vehicle starter system introduces an innovative approach to enhance vehicle security and user convenience by integrating biometric authentication into the vehicle's ignition process. This system uses a person's unique fingerprint pattern as a key for starting the vehicle, ensuring that only authorized users can operate the vehicle. The technology behind this system typically combines a fingerprint scanner, a microcontroller, and an electronic control unit (ECU) to authenticate the fingerprint and initiate the engine start sequence.The core advantage of this system lies in its ability to provide a higher level of security compared to traditional key-based or even keyless entry systems. Fingerprints, being unique to each individual, drastically reduce the risk of unauthorized access, car theft, and key duplication. Furthermore, it enhances convenience by eliminating the need for physical keys or fobs, streamlining the process of vehicle access and operation

		
3.	Home Automation	Home automation is the use of technology to control various systems and devices within a home, offering convenience, security, energy efficiency, and enhanced comfort. By integrating smart technologies like sensors, cameras, smart thermostats, lighting systems, and appliances, home automation enables homeowners to remotely monitor and control their home environments. These systems typically rely on wireless networks, allowing devices to communicate with each other and be managed through mobile apps, voice assistants, or centralized control hubs.

CRITERION 7	Continuous Improvement	75

7. 1. Actions taken based on the results of evaluation of each of the COs, POs & PSOs (30)

Table B.7.1: POs and PSOs Attainment levels and actions for improvement –CAYm1 2023-24

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	**2.40**	**2.02**	**Target is Not Attained** Target is not attained due to Non-attainment of course outcomes(COs) in the Courses C102 (Applied Physics), C104 (Engineering Drawing), C112 (Applied Chemistry), C113 (Electrical Circuit Analysis-I), C115 (Python Programming), C210 (Calculus, Transforms and PDE) Observations: Non-attainment of Course Outcomes(COs) in the above courses is observed due to 1) Lack of knowledge to transcend theoretical knowledge to a practical application. 2) Poor Orientation of the student towards the engineering and technology courses. 3) Student is lack of self-directed learning capabilities.
Action:1) Bridge course is conducted to accelerate the student's knowledge the courses of 10+2 level. 2) Bridge course is conducted to bridge the gap between the school science syllabus and the level needed to understand their application to engineering concepts. 3) Additional tutorial class sessions in the courses C102 (Applied Physics), C104 (Engineering Drawing), C112 (Applied Chemistry), C113 (Electrical Circuit Analysis-I), C115(Python Programming), C210(Calculus, Transforms and PDE) are conducted to provide additional practice.			

<table>
<tr><td colspan="4">4) Flipped classroom Pedagogy using NPTEL videos is implemented.</td></tr>
<tr><td colspan="4">PO2: Problem Analysis: Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences and engineering sciences.</td></tr>
<tr><td>PO 2</td><td>2.58</td><td>2.02</td><td>Target is Not Attained
Target is not attained due to non-attainment of course outcomes(COs) in the Course/Courses
C202 (Electrical Circuit Analysis - II),
C204(Electro Magnetic Fields),
C303 (Power Systems-II).
Observations:
Non-attainment of Course Outcomes(COs) is observed due to poor oorientation of the student towards the electrical engineering.</td></tr>
<tr><td colspan="4">Action:
1. Flipped classroom Pedagogy using NPTEL videos is implemented.
2. Additional tutorial class sessions in the courses C202 (Electrical Circuit Analysis -II), C303 (Power Systems-II) are conducted to provide additional practice.</td></tr>
<tr><td colspan="4">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.</td></tr>
<tr><td>PO 3</td><td>2.75</td><td>2.67</td><td>Target is Attained</td></tr>
<tr><td colspan="4">Action :1. The following courses C401 (Electrical Drives) and C404 (Digital IC Applications) labs are offered through virtual mode.</td></tr>
<tr><td colspan="4">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.</td></tr>
<tr><td>PO 4</td><td>2.94</td><td>2.94</td><td>Target is Attained</td></tr>
<tr><td colspan="4">Action:
1. Conducted workshops on applications of MATLAB in Power system analysis.
2. Conducted workshops on applications of IOT for Electrical devices.
3. Conducted workshops on applications of PCB design.
4. Theoretical Course C315 (Switch gear & Protection) provided with additional lab practices on virtual mode.</td></tr>
<tr><td colspan="4">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.</td></tr>
</table>

PO 5	2.89	2.89	Target is Attained

Action:

1. Projects and Innovations lab with advanced facilities and tools is established and students are encouraged to take up the hobby projects, Coding challenges and hackathon are conducted.
2. Students are encouraged to practice and use simulink tool to solve problems using MAT LAB.
3. Students are encouraged to participate in technical events.
4. Industrial visits are arranged to experience the real time problems and solutions.

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	2.18	2.18	Target is Attained

Action:

1. Community Service Project and its execution is strengthened.
2. Community visits are arranged.
3. Schools are adopted students are encouraged to visit the schools and addressed the students on digital literacy and digital security.

PO7: Environment and Sustainability: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge and need for sustainable development.

PO 7	2.60	2.55	Target is Attained

Action:

1) Students are encouraged to participate in national campaigns “Swatchata hi seva” and “ek ped ma ke naam”.
2) Visits are organized to the industries working on waste to wealth.
3) Adoption of the trees and plants by the departments is encouraged.
4) Motivate the students to develop sustained environmental solutions.
5) Students are sensitized by conducting invited lectures on sustainable practices in the design and product development.

PO8:Ethics: Apply ethical principles and commit professional ethics and responsibilities and norms of the engineering practice.

PO 8	2.15	2.14	Target is Attained

Action:

1. Professional ethics and Universal human values is introduced as mandatory course.
2. Invited lectures on ethics for students.

PO9: Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multi-disciplinary settings.

PO 9	2.78	2.77	Target is Attained

Action:

1. Internships, Community service project and hobby Projects are encouraged.
2. Students are encouraged to organize and lead various technical events to groom their leadership, team work, coordination and commitment.
3. Group of students were encouraged to participate various events such as code challenge, Smart India hackathon, Code sprint 1.0 etc.
4. Encouraged students to participate in various co-curricular and extracurricular activities in other colleges.

PO10: Communication: Communicateeffectivelyoncomplexengineeringactivitieswiththeengineering 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.

PO 10	**2.27**	**2.26**	**Target is Attained**

Action:

1. NPTEL Course on Enhancing soft skills and personality / Developing soft skills and personality mandated for all the students.
2. Mock Interviews and JAM sessions are conducted by CGTP Cell.
3. Soft Skill training sessions are conducted by CGTP Cell.

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 multi-disciplinary environments.

PO 11	**2.33**	**2.20**	**Target is Attained**

Action:

1. An open elective course on Innovation and Entrepreneurship is offered.
2. An active institute Innovation Council (IIC) with innovation ambassadors is operational.

PO12: Lifelong 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.

PO 12	**2.12**	**2.10**	**Target is Attained**

Action:

1. Credit transfer from SWAYAM – NPTEL Courses Policy is implemented.
2. NAD-Digi Locker and ABC Policy is implemented.

PSOs	**TARGET LEVEL**	**ATTAINMENT LEVEL**	**OBSERVATIONS**
PSO 1: Apply the knowledge of electrical engineering, investigate and solve the complex electrical Engineering problems to meet the specified needs with appropriate considerations for the society.			
PSO 1	**3.00**	**2.34**	**Target is Not Attained** Target is not attained due to non-attainment of course outcomes

			(COs) in the Courses • C202 Electrical Circuit Analysis -II, • C204 Electro Magnetic Fields, • C303 Power Systems-II. Observations: • Non-attainment of Course Outcomes (COs) is observed due to poor analytical thinking and lack of quantitative aptitude. Students are struggling with interpreting and analysing problems using first principles
Action: 1. Organized a workshop on PCB design, IOT and MATLAB for all II, III and IV year students.			
PSO 2: Analyze, design and integrate electrical systems and apply modern tools and techniques to the complex engineering problems and create passion for life-long learning.			
PSO 2	**3.00**	**2.67**	**Target is Attained**
Action: 1. Students are encouraging to develop various models using modern tools. 2. Training session on problem solving by using MATLAB.			
PSO 3: Acquire skills through hands-on experience and work effectively alone or with a team, demonstrating expertise and entrepreneurial mindset.			
PSO 3	**3.00**	**2.99**	**Target is Attained**
Action: 1. Interactive sessions are conducted with industrial experts to understand real world problems in electrical engineering.			

7.2 Academic Audit and actions taken thereof during the period of Assessment (15)

Academic Audi

The Academic Audit for the academic year 2023-24 in the Department is conducted. The Purpose of the Audit is to review the implementation of the institutional strategic plan and the entirety of a department's Teaching and Learning activity.
The following are the activities:

1. Receiving the Self Evaluation Document (SED) of the Department, with the supporting evidences
2. Interaction with stakeholders (students and staff) and visiting infrastructure
3. Audit report with area of improvements possible in the future

Schedule of the Academic Audit (29&30-07-2024)

Day I : 29-07-2024.

Time	Activity
9.30 AM – 10.00 AM	Entry Meeting of the Panel with the HoDs and DIQAC coordinator in HODs Office.
10.15 AM – 11.15 AM	Department Presentation in the Department along with DIQAC Coordinator and the Panel.
11.15 AM – 11.30 AM	Tea Break.
11.30 AM – 12.30 PM	Meeting the Staff.
12.30 PM – 1.30 PM	Lunch Break.

Day II: 30-07-2024.

Time	Activity
9.30 AM – 10.30 AM	Visiting the Infrastructure.
10.30 AM – 11.15 AM	Verifying the Audit Report and the Support Evidences.
11.15 AM – 11.30 AM	Tea Break.
11.30 AM – 12.30 PM	Verifying the Audit Report and the Support Evidences.

Self-Evaluation Document (A.Y.: 2023-24)

1. **Important Achievements of the Department**
    1. NBA accredited for 3 years.
    2. Conducted national level Workshops, Seminars & Guest lectures for students.
    3. Patents & Papers published in reputed journals.
    4. Students and faculty received NPTEL Certificates.
2. **Faculty profile**

Faculty Strength	Total Faculty -14 Men – 11 Women - 03

Qualification	Ph.D - 03 Ph. D (Pursuing) - 5 M.Tech.- 06

List of the Faculty Members

S. No.	Name of the Faculty	Designation	Qualification	Teaching Experience in Years
1	Dr. K. Hari Krishna	Professor	Ph.D	20
2	Dr. L. Shanmukha Rao	Professor	Ph.D	21
3	Dr. G. Kishor Babu	Professor	Ph.D	16
4	Mr. R. Subba Reddy	Associate Professor	M.Tech. (Ph.D)	18
5	Mr. P.P. Sharma	Associate Professor	M.Tech. (Ph.D)	16
6	Mr. M.V.N. Murthy	Assistant Professor	M.Tech. (Ph.D)	14
7	Mr. V. Rajesh	Assistant Professor	M.Tech.	15
8	Mr. P. Venu Babu	Assistant Professor	M.Tech. (Ph.D)	15
9	Mr. M. Ranjith Kumar	Assistant Professor	M.E. (Ph.D)	14
10	Mrs. P. Kavitha	Assistant Professor	M.Tech.	14
11	Mr. D. Sambasivarao	Assistant Professor	M.Tech.	7
12	Mr. J. Sunil Babu	Assistant Professor	M.Tech.	16
13	Mrs. P. Nagadivya	Assistant Professor	M.Tech.	9
14	Mrs. P. Naga Jyothi	Assistant Professor	M.Tech.	7

3. Student's Community Wise Statistics

Year	Total No. Students Admitted	SC		ST		BC										OC		Total	
						A		B		C		D		E					
		M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F
IV EEE	55	4				5	3	3				5		2	2	15	16	34	21
III EEE	55	8	2	2	2	6	1	4	1			5		2		18	4	45	10
II EEE	55	5	2	1	0	8	0	5	1	0	0	5	1	5	0	19	3	48	7

4. Curriculum:

a. R20 – IV B.Tech
b. R20A – III B.Tech
c. R20A – II B.Tech

5. Assessment Tools and Plan: The assessment of students is done by

(i) Through descriptive, objective and assignment.

(ii) Internal and External Exams.

6. External Results Analysis

Year	Year of Admission	Pass Percentage (I Sem)		Pass Percentage (II Sem)	
		Appeared	Pass	Appeared	Pass
IV EEE	2020	55	38(69.09%)	55	55(100%)
III EEE	2021	53	48(90.56%)	51	48(94.11%)
II EEE	2022	55	32(58.18%)	54	34(62.96%)
	Average		39.33(72.61%)		45.66(85.69%)

7. Research-

a. Journal and Conference

International Journal	National Journal	International Conference	National Conference	Patents	
				Published	Grant
21	NIL	NIL	NIL	2	NIL

b. Departments/Teacher having research projects funded by Government and/or Non-government

Name of the Principal Investigator/ Co-Investigator (if applicable)	Department of the Principal Investigator/ Co-Investigator	Name of the Funding Agency	Type (Government/ Non-Government)	Funds provided (INR in lakhs)	Month and Year of receiving the grant	Duration of the Project
NIL	**NIL**	**NIL**	**NIL**	**NIL**	**NIL**	**NIL**

8. Placement, Higher Studies and Entrepreneurship Details

Item	
Total No. of Final Year Students (N)	55
No. of students placed in companies or Government Sector (x)	35
No. of students admitted to higher studies with valid qualifying scores (GATE or equivalent State or National Level Tests, GRE, GMAT etc.) (y)	1
No. of students turned entrepreneur in engineering/technology(z)	NIL
x + y +z =	36
Placement Index:(x + y + z)/N	0.65

9. Infrastructural Facilities

	Class Rooms	**Tutorial Rooms**	**Seminar Halls**	**Labs**
No. of Rooms	4	1	1	8
Total Area Allotted (Sqm)	360	90	180	714.1
TOTAL	360	90	180	714.1

S.No	**Name of the laboratory**	**Name of the important equipment**
1	Electrical Circuits Lab	Regulated power supplies, Signal generator, Decade resistance boxes, Decade inductance boxes, Decade capacitance boxes,

2	Electrical Machines Lab	Rectifier panel, DC Shunt motor, DC Series motor, DC Compound motor, DC Shunt generator, DC Series generator, Single Phase Transformer and Three Phase Transformer. Squirrel cage type Induction motor, Slip ring type induction motor, Single phase capacitor start induction motor and Synchronous machine.
3	Power Systems lab	Phase sequence of an Alternator kit, Three phase transformer kit, Tong tester kit, Dielectric oil testing kit, Transmission line parameter panel.
4	Electrical Measurements Lab	Regulated power supplies, CT testing kit, Crompton potentiometer kit, Kelvin's double bridge kit, Anderson bridge kit, Single Phase and Three Phase inductive load,
5	Control Systems Lab	Time response kit, Lead Lag compensator kit, Temperature controller kit, Magnetic Amplifier kit, AC Servo motor kit,
6	Power Electronics Lab	SCR, MOSFET, IGBT, TRIAC, R & RC UJT Firing kit , 1-phase & 3-phase Half Controlled and Full Controlled converters kit, 1-phase AC voltage Controller kit, 1- phase Cyclo- converter, Series and Parallel Inverters, 1-phase PWM Inverter.
7	Electrical Simulation Lab	Computers, Battery backup for RAM, Elevator Interface, Power supply and PC keyboards
8	Projects and innovation lab	CORE i3 processor, INTEL chipset mother board 2GB-DDR3-RAM, 500GB hard drive,18.5 " LED Monitor, MATLAB, Soldering Kit, Digital multimeters, Storage oscilloscope and Servo voltage control stabilizer.

IT Infrastructure (Computers, Peripherals, Internet & Wi-Fi)

S. No	System Description		Location	Purchase		Installation Date
	Model	Make		Date	Cost	
1	CORE i3 processor, INTEL chipset mother board 2GB-DDR3-RAM, 500GB hard drive,18.5 " LED Monitor	HP	1T05	22/6/2011	28,571/-	22/6/2011

Total No. of systems in the Department: 30
Details of Peripherals:
EPSON EBS PROJECTORS: 4
CANON PRINTER: 1

Details of Internet: Netlink/Blueweb: 1GBPS

Dept. Library Books

Description	No
Titles	55
Volumes	100

Audit Report

Audit Report

S. No.	Description of the verified document	Remarks/ Deficiencies
1.	Course files	Available
2.	Attendance registers	Available
3.	Evaluation and award of internal marks	Available
4.	Lab record (Sample copies)	Available
5.	Activity registers and reports for seminars, guest lectures, functions, paper contests etc.,	Samkalp - 2023.
6.	Stock verification (Lab's)	Verified
7.	Self-Evaluation Document (SED) of the Department	Available.

1. **Outcome of the students meeting** It's good, Minutes are available
2. **Outcome of the Faculty meeting** It's good, Minutes are available
3. **Overall assessment** It's good, everything is according to SED and department functioning well.
4. **Suggestions** :- —
5. **Conclusion** :- Department functioning is satisfactory

Signature of the Academic Panel Members

Chair Person- HOD	Dr. B. Srikanth (Sd)
Convener (Name, Designation)	P. Mounika. (M) Asst. Prof.
Subject Expert –Mamber-1 (Name, Designation)	K. PALLAVI Asst. Prof.
Subject Expert – Member-2 (Name, Designation)	Y. Srivanika (Y) Asst. Prof.

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

Table B.7.3a: **Placement, Higher Studies, and Entrepreneurship**

Item	CAYm1 (2023-24)	CAYm2 (2022-23)	CAYm3 (2021-22)
Total No. of Final Year Students (N)	55	48	51
No. of students placed in companies or Government Sector (x)	35	22	26
No. of students admitted to higher studies with valid qualifying scores (GATE or equivalent State or National Level Tests, GRE, GMAT etc.) (y)	1	4	3
No. of students turned entrepreneur in engineering / technology (z)	0	0	0
x + y + z	36	26	29
Placement Index: (x + y + z)/N	0.65	0.54	0.5
Average placement = (P1 + P2 + P3)/3	**0.5633**		
Assessment Points = 30 × average placement	**16.89**		

Table B.7.3b: Number, Quality and salary package of Placements-Improvements

S.No	**Description**	**LYG (2023-24)**	**LYGm1 (2022-23)**	**LYGm2 (2021-20)**
1	No. of students placed	35	26	26
2	No. of Placements	48	67	34
3	Minimum Salary (L.P.A)	2.56	2.40	2.50
4	Maximum Salary (L.P.A)	3.60	3.25	4.2
5	Mean salary (L.P.A)	2.88	2.58	3.67
6.	Initiatives for Improvement	Global Certification program is introduced to substantially enhance the competencies of the students and to improve quality of the placements in the current academic year.		

7.4 Improvement in quality of students admitted to the program (20)

Table B. 7.4: Quality of Students admitted to the Program

Item		CAYm1 (2023-24)	CAYm2 (2022-23)	CAYm3 (2021-22)
National Level EntranceExamination	**No. of Students admitted**	NIL	NIL	NIL
	Opening Score /Rank	NIL	NIL	NIL
	Closing Score / Rank	NIL	NIL	NIL
State/Institute/Level Entrance Examination/Others (Name of the Entrance Examination) (APEAPCET)	**No. of Students admitted**	21	33	26
	Opening Score/Rank	101263	69312	63620
	Closing Score/Rank	113362	170740	128712
Name of the Entrance Examination for Lateral Entry or lateral entry details (APECET)	**No. of Students admitted**	32	28	32
	Opening Score/Rank	1659	1364	1104
	Closing Score/Rank	6645	6645	5961
Average percentage of marks in CBSE/Any other Board Result of admitted students (Physics, Chemistry &Mathematics)		53.2	49.25	52.6

Remarks: 1**.** The Quality of Students admitted to the program is considerably improved with reference to closing ranks.

2. The Quality of Students admitted to the program is improved with reference to average percentage of intermediate Board marks.

CRITERION8	First Year Academics	50

S. No.	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')
								CAY (24-25)	CAYm 1(23-24)	CAYm 2(22-23)			
1	Dr. M. Uma Sankara Reddy	AKTPM8403G	M. Sc, Ph. D	16-05-1984	Mathematics	Professor	02-07-2010	50	50	50	Yes	Regular	
2	Dr. B. Lakshmi	AFJPB9982N	M. Sc, M. Phil, PhD	14-09-2016	Chemistry	Professor	04-10-2010	100	100	100	Yes	Regular	
3	Dr. B. Anupama	ATVPB4426D	M. A, M. Phil, PhD	02-08-2016	English	Professor	01-11-2010	100	100	100	Yes	Regular	
4	Mr. P.Punna Reddy	BDXPP1176P	MPEd	29-06-1993	Physical Education	Assistant Professor	30-03-2011	100	100	0	Yes	Regular	
5	Dr. K.V. B. Raja Kumar	BMSPK4295E	M. Sc, Ph. D	07-07-2019	Mathematics	Professor	04-06-2012	100	100	100	Yes	Regular	
6	Mrs. V.Revathi Devi	AUNPR1314B	M. Sc, M. Phil	01-08-2012	Physics	Associate Professor	21-09-2012	100	100	100	Yes	Regular	
7	Dr. J.Veera Kumar	AICPJ7810K	MBA,Ph. D	30-11-2024	Management	Assistant Professor	10-10-2012	0	0	0	Yes	Regular	
8	Dr. P. L. Madhava Rao	AHCPP2953Q	MBA, Ph.D	19-02-2016	Management	Professor	17-12-2012	0	0	0	Yes	Regular	
9	Mr. S.Srinivasa RAO	CEUPS8662G	M.A	05-04-2001	English	Assistant Professor	01-09-2014	100	100	100	Yes	Regular	

10	Mr. M. Srinivasa Rao	AWRPM2283Q	M.Sc, M.Phil, (Ph. D)	19-03-2009	Physics	Associate Professor	01-09-2014	100	100	100	Yes	Regular	
11	Mrs. A. Sandhya	AVHPA3466A	MBA	10-07-2009	Management	Assistant Professor	01-04-2015	0	0	0	Yes	Regular	
12	Mr. P. Inna Rao	CMLPP7701C	M. Sc	11-04-2011	Mathematics	Assistant Professor	06-02-2015	50	50	50	Yes	Regular	
13	Mrs. P. Padma Priya	BFKPP8008K	MBA	26-04-2012	Management	Assistant Professor	01-04-2015	0	0	0	Yes	Regular	
14	Mrs. P.Revathi Prasanna	CQWPP8592A	M.Sc., M.Phil (Ph.D)	01-12-2022	Environmental Science	Assistant Professor	01-06-2015	50	100	100	Yes	Regular	
15	Mr. A. Kiran Kumar	AYPPA9163R	M.A	12-04-2005	English	Assistant Professor	03-06-2015	100	100	100	Yes	Regular	
16	Mr. P.Naga Raju	BMYPP8646L	M.A, M. Phil (Ph. D)	10-11-2010	English	Associate Professor	01-07-2015	100	100	100	Yes	Regular	
17	Dr. S. Ramakrishna Reddy	BEEPS1158G	M. Sc, Ph. D	16-04-2010	Chemistry	Professor	01-07-2015	100	100	100	Yes	Regular	
18	Dr. V. Siva Rami Reddy	AQRPV4803D	M.Sc., Ph. D	29-06-2015	Mathematics	Professor	02-07-2015	50	50	50	Yes	Regular	
19	Mrs. CH. Prathyusha	ADVPK3609B	M.A	05-08-2011	English	Assistant Professor	10-08-2015	50	100	100	Yes	Regular	
20	Mrs. G.V.Vijaya Lakshmi	CODPM5929K	M. Sc, M. Phil (Ph. D)	14-05-2011	Physics	Assistant Professor	01-07-2016	100	100	100	Yes	Regular	
21	Mr. P. Ratna Babu	ASNPP9798F	MBA	13-12-2013	Management	Assistant Professor	04-12-2017	0	0	0	Yes	Regular	
22	Ms. CH.Madhuri	BSKPC0766J	M.A	11-05-2015	English	Assistant Professor	01-05-2017	100	100	100	Yes	Regular	

23	Mr. K. Chandra Reddy	DPOPK0396R	MBA	29-04-2009	Management	Assistant Professor	21-12-2017	0	0	0	Yes	Regular	
24	Dr. B.Bindu Madhavi	BUJPM5696N	M. A, M.Phil, Ph.D	14-11-2023	English	Professor	17-05-2018	100	100	100	Yes	Regular	
25	Mr. K. PothuRaju	EIWPK3495P	M. Sc	17-04-2007	Mathematics	Assistant Professor	24-12-2018	50	50	50	Yes	Regular	
26	Dr. G.Sreenivasulu	AXLPG0330P	M. Sc., Ph. D	20-07-2017	Physics	Professor	01-06-2019	100	100	100	Yes	Regular	
27	Dr. A.Vanaja	BDPPA2094F	M. Sc., Ph. D	18-10-2017	Physics	Associate Professor	01-02-2020	100	100	100	Yes	Regular	
28	Mr. D.SivaNageswara Rao	AUZPD2898Q	M. Sc	10-04-2006	Mathematics	Assistant Professor	01-11-2020	50	50	50	Yes	Regular	
29	Mr. I. Narendra Kumar	BZYPN1359P	MPEd	20-04-2020	Physical Education	Assistant Professor	01-03-2021	100	100	0	Yes	Regular	
30	Mrs. M. Vineela Hepsyba	AHTPV2560Q	MBA	10-05-2012	Management	Assistant Professor	03-06-2021	0	0	0	Yes	Regular	
31	Dr. K. Aruna	BTSPK4175J	M. Sc., Ph. D	17-05-2021	Environmental Science	Associate Professor	10-06-2021	50	100	100	Yes	Regular	
32	Dr. V.S.S.N. Gopal.P	AMAPP4260B	M.Sc.,M. Phil.,Ph. D.	26-12-2015	Mathematics	Professor	10-06-2021	50	50	50	Yes	Regular	
33	Dr. K.B.Swetha Latha	BVWPK2636Q	M Sc., B.Ed., M Phil,Ph.D	19-01-2024	Mathematics	Associate Professor	06-09-2021	50	50	50	Yes	Regular	
34	Dr. G. Usha Rani	AWTPG7185M	M. Sc., Ph. D	13-11-2020	Chemistry	Associate Professor	06-09-2021	0	100	100	No	Regular	16-07-2024
35	Mr. G. Purnachandra	AJVPG6165A	M. Sc	12-04-2005	Physics	Assistant Professor	13-09-2021	100	100	100	Yes	Regular	

	RAO												
36	Mr. M.Rajasekhar	BYTPM8412N	M. Sc	12-04-2011	Mathematics	Assistant Professor	01-10-2021	50	50	50	Yes	Regular	
37	Mrs. B.Aswani Priya	BQHPB6846D	M. Sc	12-04-2010	Chemistry	Assistant Professor	12-10-2021	100	100	100	Yes	Regular	
38	Mr. P. Bala Swamy	CXEPP3463R	M.A	12-04-2011	English	Assistant Professor	01-11-2021	100	100	100	Yes	Regular	
39	Dr. K. Jalaiah	HBEPK0503G	M. Sc, Ph. D	06-12-2017	Physics	Associate Professor	15-11-2021	100	100	100	Yes	Regular	
40	Mrs. P.Suneetha	CCXPP9135Q	M. Sc	04-07-2002	Mathematics	Assistant Professor	15-11-2021	50	50	100	Yes	Regular	
41	Mr. P. Joseph Showry BalaRaju	EXCPP0463H	MA	02-12-2017	English	Assistant Professor	01-02-2022	100	100	100	Yes	Regular	
42	Mrs. SK. Kursheed Jahan Begum	EFPPS4295D	M. Sc	10-04-2007	Mathematics	Assistant Professor	02-09-2022	50	100	100	Yes	Regular	
43	Mr. D. Ratnakar	EGCPD3364L	M. Sc	10-04-2019	Mathematics	Assistant Professor	29-08-2022	50	50	100	Yes	Regular	
44	Mr. B. Vemaiah	AOSPB0707P	M.A., M.Phil (Ph.D)	13-04-2009	English	Assistant Professor	26-09-2022	50	100	50	Yes	Regular	
45	Mrs. Revathi.D	EJVPR8951P	M.A, M. Phil	16-03-2012	English	Assistant Professor	26-10-2022	100	100	50	Yes	Regular	
46	Dr. P. Ramesh	ANSPP0160B	M.A., M.Phil., Ph.D	31-12-2016	English	Professor	02-11-2022	100	100	50	Yes	Regular	
47	Mrs. Y. Jyothsna	APLPY9089B	M. Sc	04-04-2015	Mathematics	Assistant Professor	01-07-2023	50	100	0	Yes	Regular	
48	Dr. CH.Rani	BPBPC6973F	MSc., Ph.D	12-02-2019	Physics	Associate Professor	01-07-2023	100	100	0	Yes	Regular	

49	Mr. K. Ramesh	CXWPR3311L	M.A., B.Ed.	30-04-2013	English	Assistant Professor	01-07-2023	100	100	0	Yes	Regular	
50	Mr. M. Uday Kiran	KOXPK2886D	M.A	27-04-2018	English	Assistant Professor	03-07-2023	100	100	0	Yes	Regular	
51	Mrs. G. Naga Sudha	BBFPN3153E	M. Sc	05-11-2005	Chemistry	Assistant Professor	03-07-2023	100	100	0	Yes	Regular	
52	Mrs. Patan Mastani	GLCPS6609J	MBA	08-09-2015	Management	Assistant Professor	03-07-2023	0	0	0	Yes	Regular	
53	Dr. G. Praveen Chand	AWUPG0675M	M.Sc., M.Phil., Ph.D	08-09-2015	Chemistry	Associate Professor	01-08-2023	100	100	0	Yes	Regular	
54	Ms. P. Sri Lakshmi Tirupatamma	EKBPP6860C	MBA	12-09-2020	Management	Assistant Professor	07-08-2023	0	0	0	Yes	Regular	
55	Mrs. K. Venkata Usha Kiranmai	DECPK8362A	M. Sc	30-03-2001	Mathematics	Assistant Professor	12-08-2023	50	100	0	Yes	Regular	
56	Mr. K. Rajesh Babu	BDAPK5003K	M.A, M. Phil	28-12-2000	English	Assistant Professor	30-08-2023	100	50	0	Yes	Regular	
57	Mr. Adam Shafi Shaik	MBXPS7795A	M. Sc,B. Ed,(Ph.D)	17-04-2010	Mathematics	Assistant Professor	12-02-2024	50	50	0	Yes	Regular	
58	Mr. G. Venkateswarlu	BAEPG6464M	M.Sc., (Ph. D)	02-05-1997	Mathematics	Assistant Professor	14-02-2024	0	50	0	No	Regular	27-09-2024
59	Dr B. Suresh	CEEPB9157B	M.Sc, B. Ed, Ph.D	10-05-2018	Physics	Associate Professor	01-03-2024	100	0	0	Yes	Regular	
60	Dr. K. Mohana Rao	HUIPK3041N	M.Sc., Ph.D	15-12-2018	Chemistry	Associate Professor	06-03-2024	100	0	0	Yes	Regular	
61	Ms. V. Subha Devi	BCPPV1041Q	M.A	01-06-2022	English	Assistant Professor	03-06-2024	50	0	0	Yes	Regular	
62	Mrs. Gali Mani Malathi	BOTPG1786H	M. Sc	04-04-2005	Chemistry	Assistant Professor	01-08-2024	100	0	0	Yes	Regular	

63	Ms. V. Lakshmi Priya	FKRPP8289N	M.A	10-05-2011	English	Assistant Professor	01-08-2024	100	0	0	Yes	Regular	
64	Mr. Maddu Suresh	CBIPM7263G	MBA	01-08-2024	Management	Assistant Professor	01-08-2024	0	0	0	Yes	Regular	
65	Mrs. T. Annapurna	FTNPA6067A	M. Sc	01-06-2022	Physics	Assistant Professor	02-08-2024	100	0	0	Yes	Regular	
66	Mr. M. Venkateswara Rao	AQWPM3230E	M. Sc	01-04-2006	Mathematics	Assistant Professor	03-08-2024	100	0	0	Yes	Regular	
67	Mr. K. Ravi	FXDPK2601C	MPED	20-04-2018	Physical Education	Assistant Professor	05-08-2024	100	0	0	Yes	Regular	
68	Ms.P.Vijaya	CWUPP3902L	M.Tech (Ph.D)	19-01-2015	VLSI Design	Associate Professor	15-07-2024	50	0	0	Yes	Regular	
69	Mrs.M.Rani	CWEPM1565L	M.Tech	17-12-2018	Digital Electronics & Communication Systems	Assistant Professor	15-06-2022	50	50	0	Yes	Regular	
70	Mrs.M.Sowreelu	FAIPM3285E	M.Tech	27-04-2016	Digital Electronics & Communication Systems	Assistant Professor	15-07-2022	50	50	50	Yes	Regular	
71	Dr.S.Koteswara Rao	BDEPS7388K	Ph.D	08-02-2017	Wireless Communication and networks	Professor	01-02-2023	0	0	50	No	Regular	04-05-2024
72	Mr.T.Tirumala Koteswara Rao	BCFPT1588Q	M.Tech	19-02-2014	VLSI & Embedde	Assistant Professor	12-06-2023	50	50	0	Yes	Regular	

					d Systems								
73	Mr.S.Chiranjeevi Reddy	BLYPS1174F	M.Tech (Ph.D)	15-12-2011	Digital Electronics & Communication Systems	Assistant Professor	23-06-2023	50	50	0	Yes	Regular	
74	Mr. B. Siva Krishna	BOPPB2798E	M.Tech	22-03-2021	VLSI & Embedded Systems	Assistant Professor	26-08-2024	50	0	0	Yes	Regular	
75	Ms.P.Annapurna	DXSPA2213K	M.Tech	12-07-2018	Digital Electronics & Communication Systems	Assistant Professor	16-06-2022	0	50	50	No	Regular	13-06-2024
76	Mrs.Ch.Jameema	BKTPC0458A	M.Tech	12-10-2017	VLSI Design	Assistant Professor	01-07-2021	0	0	50	Yes	Regular	
77	Mr.K. Ravi Kumar	EFEPK3028H	M.Tech	20-01-2014	Digital Electronics & Communication Systems	Assistant Professor	01-07-2021	0	0	50	No	Regular	06-05-2023
78	Mrs.Thatavarthi Supriya	ASBPT6511E	M.Tech	05-01-2015	Computer Science & Engineering	Assistant Professor	08-02-2023	0	0	50	Yes	Regular	
79	Dr.Chundi Anusha	BGGPC5281E	M.Tech, PhD.,	20-01-2021	Image Processing	Associate Professor	20-05-2022	0	50	0	No	Regular	04-05-2024

80	Dr.A.Srinivas Rao	AFVPA9627B	Ph.D	08-09-2008	Computer Science& Engineering	Professor	01-06-2023	50	50	0	Yes	Regular	
81	Mr.P.Pavan Kumar	CXHPP9626F	M.Tech (Ph.D).	10-08-2013	Computer Science & Engineering	Associate Professor	23-05-2022	0	50	0	No	Regular	01-03-2024
82	Dr Sudheer Pullogura	ABVPP5097N	M.Tech, PhD.,	16-11-2023	Machine Learning	Professor	14-07-23	100	100	0	Yes	Regular	
83	Dr.G.Venkateswara Rao	ASYPG4463B	Ph.D	01-08-2024	Machine Learning	Professor	01-03-2024	50	0	0	Yes	Regular	
84	Mr.PWDS Milton	AVGPP7835F	M.Tech.	05-04-2013	CAD and CAM	Associate Professor	26-07-2016	0	0	50	No	Regular	05-05-2023
85	Mr. K Srinivasa Reddy	CDDPK0881P	M.Tech.	15-02-2012	Thermal Sciences & Energy Systems	Assistant Professor	03-06-2013	0	50	50	Yes	Regular	
86	Dr. D. Venkata Rao	AGLPD6681M	PhD	27-07-2015	Composite Materials	Prof.	06-05-2021	50	0	0	Yes	Regular	
87	Mr. G. Bujji Babu	BGHPG3894C	M.Tech.	08-07-2011	CAD and CAM	Assistant Professor	03-07-2023	50	50	0	Yes	Regular	
88	Mr. P. Surendra Babu	ALMPP8654J	M.E.	12-02-2002	Production Engineering	Assoc. Prof.	18-06-2011	50	0	0	Yes	Regular	
89	Mr. M. Venkata Balram	BXNPM5671G	M.Tech.	28-03-2019	Machine Design	Assistant Professor	31-08-2022	50	0	0	Yes	Regular	
90	Mr. Sk. Nagul Meeravali	IIFPS5868R	M.Tech.	15-04-2019	Thermal Engineeri	Assistant Professor	03-07-2023	50	0	0	Yes	Regular	

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91	Mr. G. Hareesh	ARNPH2073A	M.Tech.	29-03-2020	Thermal Engineering	Assistant Professor	08-06-2020	50	0	0	Yes	Regular	
92	Mr. P Rajesh	BZMPP1260R	M.Tech.	19-09-2018	Machine Design	Assistant Professor	01-08-2024	50	0	0	Yes	Regular	
93	Mr. V. Sreedhara Reddy	BETPS4298N	M.Tech.	15-11-1999	Manufacturing Technology	Assistant Professor	20-01-2020	50	0	0	Yes	Regular	
94	Mr. G. Suresh Babu	BAPPG5091P	M.Tech.	17-04-2010	Machine Design	Assistant Professor	02-05-2016	50	0	0	Yes	Regular	
95	Mr. M. Jugal Kishore	AOBPM6614F	M.Tech.	18-10-2010	Structural Engineering	Assistant Professor	13-06-2016	50	50	50	Yes	Regular	
96	Mr. V S R Pavan Kumar. R	AICPV4654R	M.Tech.	30-06-2012	Structural Engineering	Assistant Professor	01-06-2017	50	50	50	Yes	Regular	
97	Mr. T. Ankamma Rao	AYHPT7732R	M.Tech.	02-05-2017	Structural Engineering	Assistant Professor	12-12-2020	50	50	50	Yes	Regular	
98	Mr. T. Venkatesh	AQHPT7846C	M.Tech.	09-07-2015	Structural Engineering	Assistant Professor	21-09-2021	50	50	50	Yes	Regular	
99	Mr. J. Sai Krishna Reddy	BANPJ6149M	M.Tech.	23-01-2018	Structural Engineering	Assistant Professor	29-09-2021	50	50	50	Yes	Regular	
100	Mr. P.V.N. Sai Kiran	CNNPP1413Q	M.Tech.	26-02-2020	Structural Engineering	Assistant Professor	30-09-2021	50	50	50	Yes	Regular	

101	Mr. A. Rajesh	DMVPA9609D	M.Tech.	17-10-2019	Structural Engineering	Assistant Professor	25-08-2022	50	50	50	Yes	Regular	
102	Mr.P.Siva Sankar	CDRPP5381B	M.Tech.	01-01-2016	Structural Engineering	Assistant Professor	05-06-2017	50	50	50	Yes	Regular	
103	Mr. K. Prudhvi	COLPK9856H	M.Tech.	30-11-2017	Structural Engineering	Assistant Professor	01-07-2023	50	50	0	Yes	Regular	
104	Mrs.B.Lavanya	CAQPB1586A	M.Tech	30-10-2019	Power Electronics &Electrical Drives	Assistant Professor	15-06-2024	50	0	0	Yes	Regular	
105	Mr.D.Joseph Abhishek	CJDPJ0613C	M.Tech (Ph.D)	12-11-2021	Power Systems &Automation	Assistant Professor	25-11-2024	50	0	0	Yes	Regular	
106	Dr. M. S. Naik	BNBPM6663C	Ph.D	29-09-2022	Power Electronics & Drives	Associate Professor	22-06-2015	0	50	50	No	Regular	27-02-2024
107	Mr.K.Gopi Krishna	BBMPK3638L	M.Tech	02-12-2013	Power Electronics	Assistant Professor	11-07-2023	0	50	50	No	Regular	27-02-2024
108	Mrs. P. Naga Jyothi	DZNPP9008L	M.Tech	14-03-2019	Power Electronics	Assistant Professor	01-06-2019	0	50	50	No	Regular	06-05-2024
109	Mrs. Sk.Kousar Sana	FNMPS3998M	M.Tech	02-09-2017	Power Electronics &	Assistant Professor	01-06-2019	0	0	50	No	Regular	06-05-2023

					Drives								
110	Mrs. K. Pallavi	AZQPY0016M	M.Tech	12-09-2014	Computer Science& Engineering	Assistant Professor	26-09-2022	50	50	50	Yes	Regular	
111	Mr. Elika Sambasiva Rao	AAXPE7750Q	M.Tech	03-01-2013	Computer Science& Engineering	Assistant Professor	23-03-2023	50	50	50	Yes	Regular	
112	Mrs. Medida Alekhya	BTLPM1693N	M.Tech	07-01-2011	Computer Science& Engineering	Assistant Professor	20-07-2022	50	50	50	Yes	Regular	
113	Ms. Medida Maneesha	FNWPM4090L	M.Tech	12-01-2020	Computer Science& Engineering	Assistant Professor	07-01-2022	0	50	50	No	Regular	11-11-2024
114	Mrs. Sk. Mabibi	GKWPM0343E	M.Tech	09-02-2020	Computer Science& Technology	Assistant Professor	07-01-2022	50	50	50	Yes	Regular	
115	Ms. B. Sujatha	AMNPB4541J	M.Tech	16-07-2016	Computer Science& Engineering	Assistant Profesor	21-05-2022	50	50	50	Yes	Regular	

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

Table B.8.1: First Year Student- Faculty Ratio

Year	Number of students (approved in take strength)	Number of faculty members (considering fractional load)	FYSFR	*Assessment = (5 ×20)/ FYSFR (Limited to Max.5)
CAYm2 (2022-23)	960	44	22	4
CAY*m1 (2023-24)*	1080	58	19	5
CAY (2024-25)	1200	63	19	5
Average	1080	55	20	5

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

Table B.8.2: Qualification of Faculty Teaching First Year Common Courses

Year	x (Number of Regular Faculty with Ph.D)	y (Number of Regular Faculty with Post graduation Qualification)	RF(Number of Faculty Members required as per SFR of 20:1)	Assessment of faculty qualification [(5x+3y)/RF]
CAYm2 (2022-23)	10	27	48	2.00
CAY*m1 (2023-24)*	14	38	54	3.00
CAY (2024-25)	18	44	60	3.00
Average Assessment				2.67

8.3. First Year Academic Performance (10)

Table B.8.3.1: First Year Academic Performance

Academic Performance	CAYm1 (2023-24)	CAYm2 (2022-23)	CAYm2 (2021-22)
Mean of 1st Year Grade Point Average of all successful students ona10-pointscale) or (Mean of the percentage of marks of all successful students in first year/10)) (X)	4.47	5.46	6.16
Total no. of successful students(Y)	20	33	25
Total no. of students appeared in the examination(Z)	21	33	26
API=X* (Y/Z)	4.26	5.46	5.92
Average API=(AP1+AP2+AP3)/3	5.21		

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)

Table B.8.4.1: Assessment Tools and Assessment Pattern

S. No	Type of component	Assessment Tool	Frequency	Assessment Pattern
1	**Internal Assessment-Theory Courses**	Descriptive examinations	Twice in a semester	For theory courses the distribution shall be 30 marks for Internal Evaluation and 70 marks for the End–Examinations. For theory courses, during a semester, there shall be two mid-term examinations. Each mid-term examination consists of one objective paper, one descriptive paper and one assignment. The descriptive paper shall be for 30 marks with a total duration of 1 hour 30 minutes. The descriptive paper evaluation is scaled down to 15 marks. The objective paper is set with 5
		Objective (short answer) examinations	Twice in a semester	
		Assignments	Continuous in a semester	

				short answer questions for a total of 10 marks with a total duration of 20 minutes. The descriptive paper shall contain 3 full questions; the student has to answer all questions. While the first mid-term examination shall be conducted on 40% of the syllabus, the second mid-term examination shall be conducted on the remaining 60% of the syllabus. Five marks are allocated for assignments (as specified by the subject teacher concerned). The assignment test is for 5 marks in the form of open book tests, problems. Mini projects, design problems. slip tests, quizzes etc., depending on the course content. It should be continuous assessment throughout the semester and the average marks shall be considered.
2	**External Assessment-Theory Courses**	End semester examination	Once in a semester	The semester end examinations will be conducted for 70 marks consisting of six questions and all questions are compulsory. Question 1 shall contain 10 compulsory short answer questions for a total of 20 marks such that each question carries 2 marks. There shall be 2 short answer questions from each unit. In each of the questions from 2 to 6, there shall be either/or type questions of 10 marks each. Student shall answer any one of them.

3	**Laboratory Courses (Practical Course)**	Day to day evaluation	Continuous	For practical courses there shall be two internal examinations during the semester and continuous internal evaluation for 30internal marks and 70 end examination marks. The internal 30 marks shall be awarded as follows: day to day work – 10 marks, Record-5 marks and the remaining 15 marks to be awarded by conducting an internal laboratory test. There shall be two internal lab tests in a Semester and the Marks for 15 can be calculated with 80% weightage for better of the two performances and 20% weightage for other and these are to be added to the marks obtained in day-to-day work and record. The end examination shall be conducted by the teacher concerned and external examiner.
		Internal examinations	Twice in a semester	
		External examinations	Once in a semester	
4	**Design and/or Drawing**	Day to day evaluation	Continuous	For the subject having design and/or drawing, (such as Engineering Graphics, Engineering Drawing, Machine Drawing) and estimation, the distribution shall be 30 marks for internal evaluation (15 marks for day-to-day work, and 15 marks for internal tests) and 70 marks for end examination. There shall be two internal tests in a Semester and the marks for 15 can be calculated with 80% weightage for better of the two tests and 20% weightage for other test
		Internal examinations	Twice in a semester	
		External examinations	Once in a semester	

				and these are to be added to the marks obtained in day-to-day work.
5	**Health and Wellness, Yoga and Sports NSS/NCC/Scouts & Guides/ Community Service**	Continuous Internal Assessment	Continuous	Evaluated for a total of 100 marks. A student will be given a pool of prescribed 15 activities by the teacher. Continuous Internal Assessment on 6 activities selected by a student shall be evaluated by the Physical Director.

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

Table B.8.4.2a:First Year B. Tech. Electrical and Electronics Engineering Courses: Course – PO Mapping Matrix

Regulations: R23 **AY: 2023-24**

Course Code	Course Name	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C101	LA&C	3	2	-	-	-	-	-	-	-	-	-	-
C102	EP	3	2	-	-	-	-	-	-	-	-	-	-
C103	CE	-	-	-	-	-	1	-	-	-	3	-	-
C104	BC&ME	3	-	-	-	-	-	-	-	-	-	-	-
C105	BEEE	3	-	-	-	-	-	-	-	-	-	-	-
C106	EP LAB	3	2	-	3	-	-	-	2	2.5	2	-	-
C107	CE LAB	-	-	-	-	2	-	-	2	2.5	2.5	-	-
C108	EEEWS	2	-	-	3	-	-	-	2	3	2	-	-
C109	EWS	3	-	-	3	-	-	-	2	3	2	-	-
C110	HWYS	-	-	-	-	-	3	-	2	-	-	-	2

C111	DE&VC	3	2	-	-	-	-	-	-	-	-	-	-
C112	IP	3	2	-	-	-	-	-	-	-	-	-	-
C113	EG	3	2	-	-	-	-	-	-	-	-	-	-
C114	CHEM	3	2	-	-	-	-	1	-	-	-	-	-
C115	ECA-I	3	2	-	-	-	-	-	-	-	-	-	-
C116	CP LAB	3	-	-	3	-	-	-	2	3	2	-	-
C117	ITWS	3	-	-	3	-	-	-	2	3	2	-	-
C118	NCC/NSS	-	-	-	-	-	3	-	2.7	-	-	-	2.3
C119	CHEM LAB	2	1	-	2	-	-	-	2	2.5	2	-	-
C120	EC LAB	2	-	-	3	-	-	-	2	3	2	-	-
AVERAGE		**2.81**	**1.89**	**-**	**2.86**	**2.00**	**2.33**	**1.00**	**2.07**	**2.81**	**2.17**	**-**	**2.15**

A. Attainment of COs Direct	The Freshman Engineering Department collects the assessment data and conducts meetings with the course coordinators and proposes the targets. The set targets and set attainment levels of the First year courses are approved by the DAB.

Attainment of COs: Target & Attainment Levels (Direct)

I. The course outcomes are evaluated during Internal and External assessments as per the following:

Regulation	Internal Assessment – Set Target	External Assessment – Set Target
R23	50 % Marks	40 % Marks

II. The attainment levels are as per the following

S. No	Attainment Level	% of students attaining the Set-Target
1	0	<40% of students scoring less than set target
2	1	40 or more % of students scoring more than set target
3	2	60 or more % of students scoring more than set target
4	3	80 or more % of students scoring more than set target

III. **Theory Courses: Attainment of COs – Procedure:**

For R23 regulations: Weightages for different internal assessment tools are

based on Freshman Engineering Department recommendations and DAB approval.

Attainment of COs - Calculation:

Theory Courses:

Internal attainment level = (50% of DESCRIPTIVE + 25% of OBJECTIVE (Short answer) + 25% of ASSIGNMENT) attainment levels.

External attainment level = 100% of Semester end examination

IV. **Laboratory Courses:**

Evaluation of Attainment of COs

Attainment of CO= 20% of attainment level of CIE + 80% of attainment of SEE Attainment of Course outcomes of all courses are assessed through above-mentioned assessment tools and with respect to set targets and attainment levels.

V. **Example Scenario:**

KALLAM HARANADHAREDDY INSTITUTE OF TECHNOLOGY
(AUTONOMOUS)
NH-16, Chowdavaram, Guntur – 522019
DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

Course Code	C105
Course Name	BASIC ELECTRICAL & ELECTRONICS ENGINEERING
REGULATION	R23
Year & Sem	I/I
Academic Year	2023-24
Name of Faculty	Dr.G.KISHORE BABU / Dr.B.BHARATHI DEVI

CONTINUOUS INTERNAL EVALUATION

Sl. No	Roll No	DESCRIPTIVE 1				DESCRIPTIVE 2				Quiz 1	Quiz 2	Assgn 1	Assign 2	I internal	II internal	Final Inter marks (3
		Q1	Q2	Q3	Total	Q1	Q2	Q3	Total							
		10	10	10	(30)	10	10	10	(30)	10	10	5	5	Total (25)	Total (25)	
1	238X1A0202	10		9	19			5	5	1	3	5	5	11	5.5	15
2	238X1A0203	1	5	6	12	10		10	20	5	5	5	5	11	15	20
3	238X1A0204	4		5	9	2		2	4	6	1	5	5	11	3	14
4	238X1A0205			2	2	2		4	6	0	0	5	5	1	3	8
5	238X1A0206		0	2	2			8	8	1	0	5	5	2	4	9
6	238X1A0207	0		3	3			8	8	3	0	5	5	5	4	10
7	238X1A0208	10	6	8	24	10	4		14	4	3	5	5	16	10	20
8	238X1A0209	10	10	10	30	10	7	10	27	9	7	5	5	24	20.5	29
9	238X1A0210	0	5	5	10	10	5		15	1	0	5	5	6	7.5	13
10	238X1A0211	0	1	1	2	0	0		0	0	0	5	5	1	0	6
11	238X1A0212	0	2	4	6				0	0		5	2	3	0	7
12	238X1A0213	2	4	5	11	10		10	20	5	6	5	5	11	16	20
13	238X1A0214	4		6	10	6	2	2	10	1	4	5	5	6	9	14
14	238X1A0215	10	10	10	30	10	9	10	29	10	8	5	5	25	22.5	30
15	238X1A0216	0	2	1	3	2	2		4	1	0	5	5	3	2	8
16	238X1A0217	0	0	0	0				0			5	2	0	0	4
17	238X1A0218		2	7	9	3	2		5	2	0	5	5	7	2.5	11
18	238X1A0219		4	6	10	2		10	12	1	0	5	5	6	6	11
19	238X1A0220	10	7	6	23	4	5	8	17	1	0	5	5	13	8.5	17
20	238X1A0221	10	9	10	29	10	5	5	20	6	3	5	5	21	13	24
	No. of students attempted	16	15	20		15	10	13		19	18	20	20			
	No. of students who got more than 50% marks	6	7	13		8	5	10		6	4	20	18			
	% of students who got more than 50% marks	38	47	65		54	50	77		32	23	100	90			
	Mapping with course outcome	C105.1	C105.2	C105.3		C105.4	C105.5	C105.6		C105.1-3	C105.4-6	C105.1-3	C105.4-6			
	Attainment Level	0	1	2		1	1	2		0	0	3	3			

Fig. 8.4.2a: OBE- Assessment Matrix- Internal Examinations

SEMESTER END EVALUATION

Sl. No	Roll No.	AQ1 Short Answer	AQ2	AQ3	AQ4	BQ1 Short Answer	BQ2	BQ3	BQ4	Final Marks	Final Marks (100)	GRADE	GRADE POINT
		5	10	10	10	5	10	10	10	70			
1	23BX1A0202	1	1	1	3	1			4	13	28	F	0
2	23BX1A0203	2	0	7	8	4	8			29	43	E	5
3	23BX1A0204	1	2		3	1	4	4	1	16	30	F	0
4	23BX1A0205	1	0	1	1	2	1	2	3	11	19	F	0
5	23BX1A0206		0				4	4		8	17	F	0
6	23BX1A0207	0		2			5			7	17	F	0
7	23BX1A0208	1	3	3	4	4	7	7	3	36	56	O	6
8	23BX1A0209	4		9	10	4	7	6	9	49	78	A	8

No. of students attempted	18	15	15	16	16	17	14	11
No. of students who got more than 40% marks	5	1	7	9	13	14	11	5
% of students who got more than 40% marks	28	7	47	57	82	83	79	46
Mapping with course outcome	C105.1-3	C105.1	C105.2	C105.3	C105.4-6	C105.4	C105.5	C105.6
Attainment level	0	0	1	1	3	3	2	1

Fig. 8.4.2b: OBE- Assessment Matrix- External Examinations

KALLAM HARANADHAREDDY INSTITUTE OF TECHNOLOGY
(AUTONOMOUS)
NH-16, Chowdavaram, Guntur - 522019
DEPARTMENT OF ELECTRICAL AND ELECTORNICS ENGINEERING

Course Code	C105
Course Name	BASIC ELECTRICAL & ELECTRONICS ENGINEERING
REGULATION	R23
Year & Sem	I/I
Academic Year	2023-24
Name of Faculty	Dr.G.KISHORE BABU / Dr.B.BHARATHI DEVI

Attainment of COs for the Course C105

CO	Attainment level in					Direct attainment level
	Descriptive Exam	Online Quiz	Assignment	Internal Assessment	External Assessment	
C105.1	0	0	3	0.75	0	0.15
C105.2	1	0	3	1.25	0.85	0.93
C105.3	2	0	3	1.75	0.85	1.03
C105.4	1	0	3	1.25	3	2.65
C105.5	1	0	3	1.25	2.15	1.97
C105.6	2	0	3	1.75	1.3	1.39
				1.33	1.36	1.35

Fig. 8.4.2c: OBE- Attainment of COs (Direct)

B. Attainments of COs of all the First Year Courses through internal and external examinations (Direct)	This process is repeated for all the First Year courses in the curriculum. The details of attainment of COs of all first year courses is presented in the Table B.8.4.2b.

Table B.8.4.2b: Attainments of COs of all the First Year Courses through internal and external examinations (Direct)

Course Code	Course Name	CO1	CO2	CO3	CO4	CO5	CO6	Average
C101	Linear Algebra &	0.71	0.71	0.71	0.15	0.15	-	**0.49**

	Calculus							
C102	Engineering Physics	1.37	0.81	0.71	1.27	0.15	-	**0.86**
C103	Communicative English	1.95	1.95	1.19	1.75	1.75	-	**1.72**
C104	Basic Civil & Mechanical Engineering	1.17	0.79	1.27	0.44	1.22	1.22	**1.02**
C105	Basic Electrical & Electronics Engineering	0.15	0.93	1.03	2.65	1.97	1.39	**1.35**
C106	Engineering Physics Lab	3	3	3	3	-	-	**3**
C107	Communicative English Lab	0.75	1.2	2.4	2.4	-	-	**1.69**
C108	Electrical & Electronics Engineering Workshop	2.625	2.3	3	2.8	-	-	**2.68**
C109	Engineering Workshop	3	3	3	3	-	-	**3**
C110	Health and Wellness, Yoga and Sports	3	3	3	-	-	-	**3**
C111	Differential Equations & Vector Calculus	0.96	0.96	0.91	0.35	1.47	-	**0.93**
C112	Introduction to Programming	0.15	0.71	0.4	0.4	0.4	-	**0.41**
C113	Engineering Graphics	1.2	1.2	1.2	1.2	1.2	-	**1.2**
C114	Chemistry	1.32	1.32	0.76	1.32	0.76	-	**1.1**
C115	Electrical Circuit Analysis - I	1.37	0.25	0.71	1.83	1.27	-	**1.09**
C116	Computer Programming Lab	1.88	2.1	2.4	3	-	-	**2.34**
C117	IT Workshop	0.75	0.8	2.4	2.4	-	-	**1.59**
C118	NSS/NCC/Scouts & Guides/ Community Service	3	3	3	-	-	-	**3**
C119	Chemistry Lab	3	3	3	3	-	-	**3**
C120	Electrical Circuits Lab	3	3	3	3	-	-	**3**

C. Attainment of COs Indirect	The indirect CO attainments for each course are assessed through course exit survey. A survey has been conducted at the end of every semester through online mode. All the students will participate in surveys and give rating (0: disagree, 1: fairly agree, 2: agree and 3: strongly agree) to course outcomes that how much they really achieved during course work.

Course Exit Survey: A Course exit survey is conducted at the end of every semester through online mode. All the students will participate in the survey and give rating (0: disagree, 1: fairly agree, 2: agree and 3: strongly agree) to the course outcomes indicating the attainment of COs.

S. No	Type of component	Frequency	Assessment criteria
1	Course End Survey	Once at the end of semester	Collect information from the students in the prescribed format to assess the attainment of course outcomes at the end of the semester.

The Course exit survey is conducted using the template shown below:

KALLAM HARANADHAREDDY INSTITUTE OF TECHNOLOGY(Autonomous)
DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING
COURSE END SURVEY

Please take time to complete this survey. Your thoughtful objective responses to each question are highly valued part of the teaching and learning improvement process.

Academic Year: 2023-24 **Class: B.Tech. I YEAR I SEM**
Name:B.VENKATA RAMI REDDY **Roll No: 238X1A0203**
Section: EEE

The following survey is an indirect assessment of your technical abilities with respect to course mentioned above. Please read the following carefully and based on self-assessment of your own capabilities, give the appropriate level from the following:

Disagree	Fairly Agree	Agree	Strongly Agree
0	1	2	3

I Year – I SEMESTER

S. No of CO	Course Name: C105: Basic Electrical & Electronics Engineering Year of Study: 2023-24	Attainment Level
I have ability to:		
1	Understand the elements of electrical DC & AC networks	3
2	Understand the Performance of DC machines, AC machines and Measuring Instruments.	3
3	Estimate power consumption and understand electrical safety measures	2
4	Understand the Characteristics of Electronic Devices	3
5	Explain about various Electronic Circuits	3
6	Discuss about different Logic gates & combinational circuits	1

Example scenario: The information will be collected from all students. The indirect attainment of COs for a course is the average of the responses for each course.

CO	Indirect Attainment
C105.1	2.33
C105.2	2.9
C105.3	2.67
C105.4	2.57
C105.5	2.33
C105.6	2.48
Average	**2.55**

D. Attainment of COs of all the First Year Courses through Course Exit Survey	This process is repeated for all the First Year courses in the curriculum. The details of attainment of COs - Indirect are as follows

Table B.8.4.2c: CO Attainments of all the First Year Courses through course exit survey (Indirect)

Course Code	Course Name	CO1	CO2	CO3	CO4	CO5	CO6	Average
C101	Linear Algebra & Calculus	3	3	2.52	2.81	2.29	-	**2.72**
C102	Engineering Physics	2.29	2.86	2.48	2.86	2.84	-	**2.67**
C103	Communicative English	2.33	2.86	2.67	2.81	2.33	-	**2.6**
C104	Basic Civil &	2.33	2.9	2.38	2.76	2.33	2.33	**2.51**

	Mechanical Engineering							
C105	Basic Electrical & Electronics Engineering	2.33	2.9	2.67	2.57	2.33	2.48	**2.55**
C106	Engineering Physics Lab	3	2.95	2.48	2.76	-	-	**2.80**
C107	Communicative English Lab	2.19	3	2.48	2.76	-	-	**2.61**
C108	Electrical & Electronics Engineering Workshop	2.19	2.90	2.43	2.71	-	-	**2.56**
C109	Engineering Workshop	3.00	2.95	2.48	2.71	-	-	**2.79**
C110	Health and Wellness, Yoga and Sports	2.86	2.57	2.67	-	-	-	**2.7**
C111	Differential Equations & Vector Calculus	3	2.43	2.67	2.33	2.52	-	**2.59**
C112	Introduction to Programming	2.95	2.52	2.71	2.33	2.52	-	**2.61**
C113	Engineering Graphics	3	2.57	2.81	2.19	2.43	-	**2.6**
C114	Chemistry	2.95	2.38	2.67	2.1	2.48	-	**2.52**
C115	Electrical Circuit Analysis - I	2.9	2.48	2.76	2.9	2.43		**2.69**
C116	Computer Programming Lab	2.95	2.43	2.76	2.29	-	-	**2.61**
C117	IT Workshop	2.86	2.57	2.81	2.33	-	-	**2.64**
C118	NSS/NCC/Scouts & Guides/ Community Service	2.86	2.38	2.52	-	-	-	**2.59**
C119	Chemistry Lab	2.76	2.52	2.71	2.14	-	-	**2.53**

C120	Electrical Circuits Lab	2.86	2.57	2.76	2.29	-	-	**2.62**

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

8.5.1. Indicate results of evaluation of each relevant PO and/or PSO if applicable (10)

Table B.8.5.1: PO Attainment (Direct) from First Year Courses

Course Code	Course Name	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C101	Linear Algebra & Calculus	0.49	0.33										
C102	Engineering Physics	0.86	0.58										
C103	Communicative English						0.58				1.72		
C104	Basic Civil & Mechanical Engineering	1.02											
C105	Basic Electrical & Electronics Engineering	1.35											
C106	Engineering Physics Lab	3	2		3				2	2.5	2		
C107	Communicative English Lab					1.13			1.13	1.41	1.41		
C108	Electrical & Electronics Engineering Workshop	1.79			2.69				1.79	2.69	1.79		
C109	Engineering Workshop	3			3				2	3	2		
C110	Health and Wellness, Yoga and Sports						3		2				2

C111	Differential Equations & Vector Calculus	0.93	0.62										
C112	Introduction to Programming	0.41	0.28										
C113	Engineering Graphics	1.2	0.8										
C114	Chemistry	1.1	0.74					0.37					
C115	Electrical Circuit Analysis - I	1.09	0.73										
C116	Computer Programming Lab	2.35			2.35				1.57	2.35	1.57		
C117	IT Workshop	1.59			1.59				1.06	1.59	1.06		
C118	NSS/NCC/Scouts & Guides/ Community Service						3		2.67				2.3
C119	Chemistry Lab	2	1		2				2	2.5	2		
C120	Electrical Circuits Lab	2			3					3			
Average		**1.51**	**0.79**	**-**	**2.52**	**1.13**	**2.19**	**0.37**	**1.80**	**2.38**	**1.69**	**-**	**2.15**

8.5.2. Actions taken based on the results of evaluation of relevant POs and PSOs (10)

Table B.8.5.2: PO Attainment Levels and Actions for improvement: 2023-24

POs	Target Level	Attainment Level	Observations
PO1:Engineering Knowledge			
PO1	**2.81**	**1.51**	**Target is Not Attained** Target is not attained due to nonattainment of course outcomes

			(COs) in the Course/Courses • C101: Linear Algebra & Calculus • C102: Engineering Physics • C111: Differential Equations & Vector Calculus • C112: Introduction to Programming **Observations:** Non-attainment of Course Outcomes (COs) in the above courses is observed due to • Lack of knowledge to transcend theory to a practical application. • Poor orientation of the student towards the engineering and technology courses. • Student is lack of self-directed learning capabilities.
Action 1: Bridge course is conducted to accelerate the student's knowledge in the courses at +2 level. **Action 2:** Additional sessions are conducted to bridge the gap between the school science syllabus and the level needed to understand their application to engineering concepts. **Action 3:** Tutorial sessions in the courses C101: Linear Algebra & Calculus, C102: Engineering Physics and C111: Differential Equations & Vector Calculus are conducted to provide additional practice.			
PO2:Problem Analysis			
PO2	**1.89**	**0.79**	**Target is Not Attained** Target is not attained due to non-attainment of course outcomes(COs) in the Course/Courses • C101: Linear Algebra & Calculus • C102: Engineering Physics • C111: Differential Equations & Vector Calculus Observations: Non-attainment of Course Outcomes(COs) in the above courses is observed due to • Lack of knowledge to transcend theory to a practical application. • Poor orientation of the student towards the engineering and technology courses.

			• Student is lack of self-directed learning capabilities.

Action 1: Bridge course is conducted to accelerate the student's knowledge in the courses at +2 level.

Action 2: Additional sessions are conducted to bridge the gap between the school science syllabus and the level needed to understand their application to engineering concepts.

Action 3: Tutorial sessions in the courses C101: Linear Algebra & Calculus, C102: Engineering Physics and C111: Differential Equations & Vector Calculus is conducted to provide additional practice.

PO3:Design/development of Solutions

PO3	-	-	-

Action 1:
Action N:

PO4:Conduct Investigations of Complex Problems

PO4	**2.86**	**2.52**	**Target is Attained**

Action 1:
Action N:

PO5:Modern Tool Usage

PO5	**2.00**	**1.13**	**Target is Attained**

Action 1:
Action N:

PO6:The Engineer and Society

PO6	**2.33**	**2.19**	**Target is Attained**

Action 1:
Action N:

PO7:Environment and Sustainability

PO7	**1.00**	**0.37**	**Target is Attained**

Action 1: Students are encouraged to participate in national campaigns "Swatchata hi seva" and "ekped ma kenaam" .

Action 2: Visits are organized to the industries working on waste to wealth

Action 3: Adoption of the trees and plants by the departments is encouraged

Action 4: Students are sensitized by conducting invited lectures on sustainable practices in the design and product development

PO8:Ethics			
PO8	**2.07**	**1.80**	**Target is Attained**
Action 1: Professional ethics and Universal human values is introduced as mandatory course **Action 2:** Invited lectures are organized.			
PO9:Individual and Team Work			
PO9	**2.81**	**2.38**	**Target is Attained**
Action 1: **Action N:**			
PO10:Communication			
PO10	**2.17**	**1.69**	**Target is Attained**
Action 1: **Action N:**			
PO11:Project Management and Finance			
PO1	-	-	-
Action 1: **Action N:**			
PO12:Life-long Learning			
PO12	**2.15**	**2.15**	**Target is Attained**
Action Proposed:1.NAD-DigiLocker and ABC Policy is implemented			

CRITERION 9	Student Support Systems	50

9.1.Mentoring System to help at individual Level (5)

Counseling serves as a fundamental approach to identifying students' challenges and providing comprehensive solutions. Senior faculty members, dedicated to students' well-being, offer counseling to help them manage stress effectively. Through this process, students are empowered with the confidence to navigate both the challenges and successes of their academic and personal lives. The details of the mentoring system are outlined in Table B.9.1.

Table B.9.1: Mentoring Structure

Type of Mentoring	All-round development
Number of faculty mentors	All senior faculty members from the department
Number of students per mentor	20students per mentor
Frequency of meeting	Twice in a semester

Mentoring process:

The mentoring system is designed to support the holistic development of students. Faculty members maintain counseling records, documenting all relevant details of the students under their guidance. These records are updated regularly and retained until the student completes their graduation. The counseling book for each student includes the following details:

Personal Information

- Past Academic Performance
- List of Academic Achievements
- Monthly Attendance

Mentors meet with students periodically to monitor their academic performance and overall activities at least twice per semester. Additionally, meetings with parents are arranged as needed. Each mentor is responsible for addressing the following concerns:

- Monitoring Regularity of the students
- Monitoring the Performance of the students
- Personal Counseling for Career Guidance
- The parents of slow learners are informed through SMS and the telephone
- Students are encouraged to participate in technical events

KALLAM HARANADHAREDDY INSTITUTE OF TECHNOLOGY
(Sponsored by Kallam Academy of Educational Society)
Approved by AICTE, New Delhi & Affiliated to JNTUK, Kakinada
NH-5, Behind Kallam Spinning mills, Chowdavaram, Guntur-522019.
Phone : 0863 - 2119726, Fax : 0863 - 2119404
E-mail : kaesguntur@gmail.com, www.khitguntur.com

KHIT

Department of

STUDENT COUNSELING REGISTER

Name of the Student : Mani Tejasri
Roll No.: 208X1A0220 Year of Admission : 2020-2024

STUDENT COUNSELING FORM

1. Name : Mani Tejasri
2. Regd. No. 208X1A0220 : Registration : R20
3. EAMCET/ECET Rank : 27,409
4. Date of Birth (dd/mm/yyyy) : 21/7/2002
5. Blood group : O+ve
6. Father's name : Mani Satyanarayana Reddy
7. Father's occupation : Farmer
8. Mother's name : Mani Lakshmi
9. Mother's occupation : House Wife
10. Reservation Category : OC
11. Day scholar or Hostler : Day scholar
12. Address : Siva Reddypalem, Tenaliroad, Guntur

Permanent Address	Local Address
Siva Reddy Palem, Tenaliroad, Guntur.	Siva Reddy Palem, Tenaliroad, Guntur.
Phone No. 9989158051	Phone No. 9989158051

13. E-mail id : tejasrimani71@gmail.com, 208X1A0220@khit.guntur.ac.in
14. Previous academic record :

S. No.	Course of Study	Max. Marks	Marks obtained	% of Marks	Class
1	SSC	10 (GPA)	9.8 (GPA)	—	First Class with Distinction
2	Inter (MPC)	1000	765	76.5%	First Class with Distinction

15. Any other achievements : Productivity Competitions
16. Extra-curricular activities : Music, IT Wizard Programming
17. Hobbies : Drawing, Watching TV, Playing Games
18. Sports : Badminton, Dodgeball

M. Tejasri
Signature of the student

1

COUNSELOR DETAILS

Year/Sem	Name of the Staff Member	Signature
I Year I Sem	M. Srinivasa Rao.	
I Year II Sem	Dr. S. Rama Krishna Reddy	
II Year I Sem	D. Sandhya Sravya	
II Year II Sem	D. Sarika Siva Ko	
III Year I Sem	D. Sarika Siva Ko	
III Year II Sem	D. Sarika Siva Ko	
IV Year I Sem	D. Sandhya Sravya	
IV Year II Sem	D. Sarika Siva Ko	

SWOT ANALYSIS

Ambition	To innovate & excel in Technological advancements for a Better Future.
Goal	To Expertise & Contribute to Cutting-Edge Technology & Innovation.
Strengths	Strong Analytical Skills, Problem Solving Ability.
Weaknesses	Tendency to focus too much on Technical details & overlooking time management
Opportunities	Expanding Career Prospects in Renewable Energy, AI & Embedded Systems
Threats	Rapid Technological changes, High Competition

2

ACADEMIC RECORD

I Year I Semester Result :

Name of the Subject		Eng	Phy	Maths	C Prog	CAD	E-D	EVS & Env. Studies	Phy Lab	Comp Lab	S-S Lab
Internal Marks ( )	Mid - 1	32	23	26	24	9	20	28	28	26	11
	Mid - 2	29	28	29	28	19	20	24	25	25	13
	Final	26	22	29	28	19	20	28	28	28	13
External Marks ( )	Attempt 1	B	B	B	D	CP	F	O	O	O	CP
	Attempt 2						E				
	Attempt 3										
	Attempt 4										
	Attempt 5										
Pass/Fail		P	P	P	P	P	P	P	P	P	P
Credits		3.0	3.0	3.0	3.0	—	3.0	1.5	1.5	1.5	—
Passing year and Month							10-March-2022				

Total marks obtained : 546 Max Marks : — Percentage : — %
Total Credits obtained 46.5 out of 10.0

I Year II Semester Result :

Name of the Subject		Lang	Maths	Chem	EM	PD	ES	ES Lab	Chem Lab	EM Lab	PD Lab
Internal Marks ( )	Mid - 1	24	23	18	16	20	A6	A8	28	30	28
	Mid - 2	20	30	5	17	20	16	15	22	29	26
	Final	28	23	16	19	20	13	18	28	30	28
External Marks ( )	Attempt 1	D	C	D	D	F	CP	CP	A	O	O
	Attempt 2										
	Attempt 3										
	Attempt 4										
	Attempt 5										
Pass/Fail		P	P	P	P	P	P	P	P	P	P
Credits		3.0	3.0	3.0	3.0	—	—	1.5	1.5	1.5	1.5
Passing year and Month		—			24-Feb-2022						

Total marks obtained : 546 Max Marks : — Percentage : — %
Total Credits obtained 6.55 out of 10.0

3

II Year I Semester Result :

Name of the Subject		DE	ECA	DC & NT	EMFT	MS	ECA Lab	DC&NT Lab	EMFT Lab	SOC Lab
Internal Marks ( )	Mid - 1	25	11	16	14	18	30	24	29	—
	Mid - 2	28	26	15	24	30	29	28	23	—
	Final	28	23	16	23	23	30	28	28	—
External Marks ( )	Attempt 1	D	C	C	D	C	O	O	O	A
	Attempt 2									
	Attempt 3									
	Attempt 4									
	Attempt 5									
Pass/Fail		P	P	P	P	P	P	P	P	P
Credits		3.0	3.0	3.0	3.0	3.0	1.5	1.5	1.5	2.0
Passing year and Month					28-Sep-2022					

Total marks obtained : — Max Marks : — Percentage : — %
Total Credits obtained 17.53 out of 10.0

II Year II Semester Result :

Name of the Subject		MEFA	EMFT	Signals	CO	MPMC	EMFT Lab	SOC Lab	MPMC Lab	DC & NT Lab
Internal Marks ( )	Mid - 1	30	24	19	18	28	24	—	29	28
	Mid - 2	27	19	28	24	23	30	—	29	28
	Final	26	23	26	23	23	29	—	29	28
External Marks ( )	Attempt-1	D	C	C	C	D	CP	A	O	O
	Attempt-2									
	Attempt-3									
	Attempt-4									
	Attempt-5									
Pass/Fail		P	P	P	P	P	P	P	P	P
Credits		3.0	3.0	3.0	3.0	3.0	2.0	1.5	1.5	1.5
Passing year and Month					30-Jan-2023					

Total marks obtained : — Max Marks : — Percentage : — %
Total Credits obtained 17.53 out of 10.0

4

III Year I Semester Result :

Name of the Subject		PE	PE Lab	OOPS	OOPS Lab	MEFA	CSP	CSP Lab	MPMC Lab	SOC	I-I
Internal Marks ( )	Mid - 1	26	19	29	26	18	22	25	29	—	—
	Mid - 2	21	25	23	24	24	20	25	29	—	—
	Final	25	24	28	26	23	19	25	29	—	—
External Marks ( )	Attempt 1	C	F	F	C	CP	O	O	O	B	O
	Attempt 2		E	B							
	Attempt 3										
	Attempt 4										
	Attempt 5										
Pass/Fail		P	P	P	P	P	P	P	P	P	P
Credits		3.0	3.0	3.0	3.0	—	4.0	1.5	1.5	2.0	1.5
Passing year and Month											

Total marks obtained : — Max Marks : — Percentage : — %
Total Credits obtained 9.84 out of 10.0

III Year II Semester Result :

Name of the Subject		MEFA	CSP	DBMS	SOFT	MPMC	CSP Lab	DBMS Lab	SOC	MOOCS
Internal Marks ( )	Mid - 1	29	5	23	25	28	30	27	—	—
	Mid - 2	31	29	26	24	25	30	29	—	—
	Final	26	23	26	25	28	30	29	—	—
External Marks ( )	Attempt 1	A	C	C	C	O	O	O	O	C
	Attempt 2									
	Attempt 3									
	Attempt 4									
	Attempt 5									
Pass/Fail		P	P	P	P	P	P	P	P	P
Credits		3.0	3.0	3.0	3.0	1.5	1.5	1.5	2.0	3.0
Passing year and Month					14-Feb-2024					

Total marks obtained : — Max Marks : — Percentage : — %
Total Credits obtained 21.75 out of 10

5

IV Year I Semester Result :

Name of the Subject		ED	Proj	Seminar	Soft Skills	Mini Proj	SOC	Internship
Internal Marks ( )	Mid - 1	24	29	18	24	25	29	—
	Mid - 2	25	29	29	25	26	21	—
	Final	25	29	26	25	26	28	—
External Marks ( )	Attempt 1	B	B	D	D	D	D	O
	Attempt 2							
	Attempt 3							
	Attempt 4							
	Attempt 5							
Pass/Fail		P	P	P	P	P	P	P
Credits		3.0	3.0	3.0	3.0	3.0	2.0	3.0
Passing year and Month								

Total marks obtained : — Max Marks : — Percentage : — %
Total Credits obtained 7.99 out of 10.0

IV Year II Semester Result :

Name of the Subject		Project Work, Seminar & Internship
Internal Marks ( )	Mid - 1	
	Mid - 2	
	Final	
External Marks ( )	Attempt 1	O
	Attempt 2	
	Attempt 3	
	Attempt 4	
	Attempt 5	
Pass/Fail		P
Credits		8.0
Passing year and Month		08-June-2024

Total marks obtained : — Max Marks : — Percentage : — %
Total Credits obtained 10.0 out of 10.0

CGPA Secured : 7.71/10.0

6

Record of interaction with parents

S.No.	Date	Details	Signature of the Parent
1	08/09/2022	Father Interacted with HOD Sir to know about Academic Performance & Personality Development	M. Satyanarayana
2	05/09/2022	Interacted with the HOD Sir to know about Class Marks & Grade points	M. Satyanarayana
3	14/11/2022	Interacted with Class Incharge to know about Attendance & Academics of Student.	M. Satyanarayana
4	22/03/2023	Interacted with HOD Sir to know the Sem CGPA upto III - I.	M. Satyanarayana
5	16/10/2023	Mother Interacted with Class Teacher & HOD Sir to know about the Attendance.	M. Usha Rani
6	03/03/2024	Project Work Details conveyed to the Father.	M. Usha Rani

7

Counseling Record

I Year I Sem

S.No.	Date	Counseling Details	Signature of the Student	Signature of the Counselor
1.	19/10/2020	No Issues	M. Tejasri	
2.	26/10/2020	We need a Sports Period.	M. Tejasri	

I Year II Sem

S.No.	Date	Counseling Details	Signature of the Student	Signature of the Counselor
1	22/04/21	No Issues	M. Tejasri	
2	29/04/21	No Issues	M. Tejasri	

8

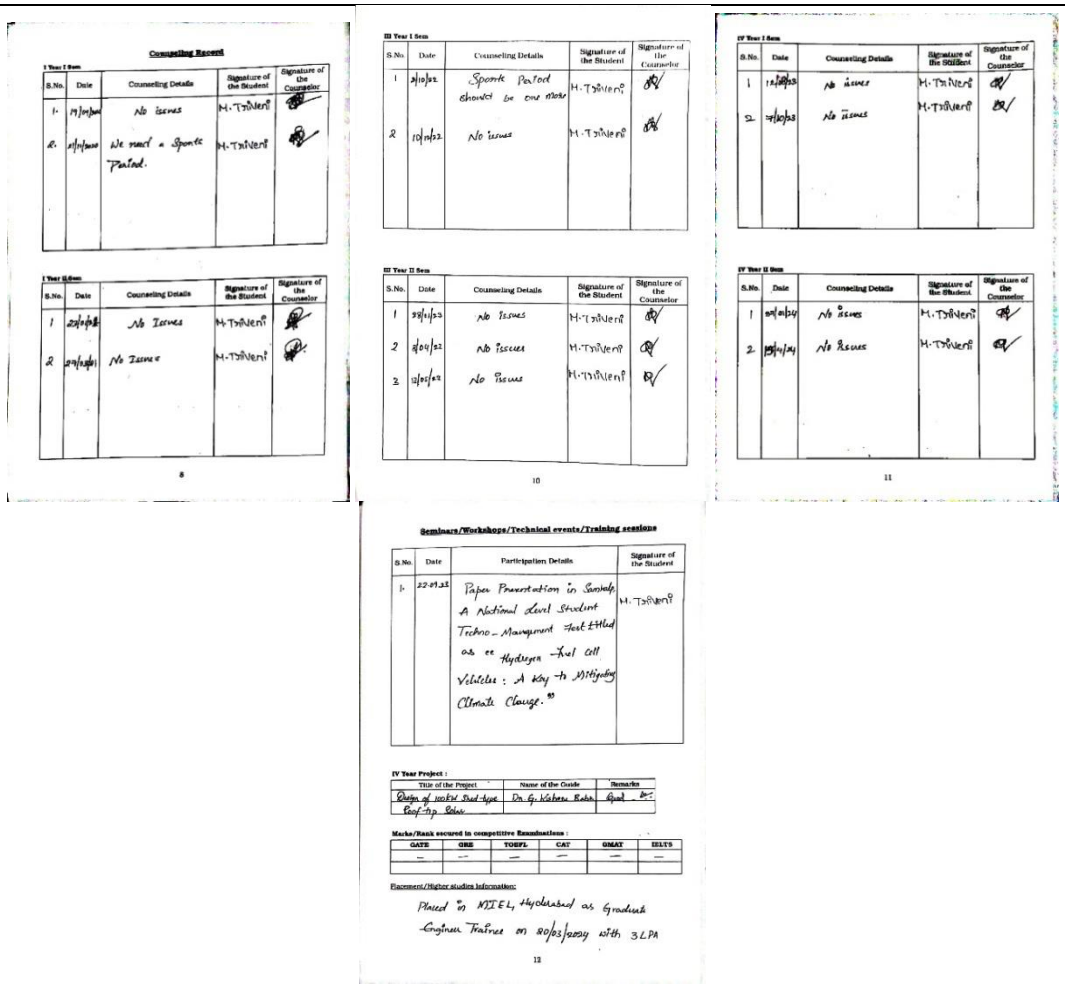

Fig. 9.1a: Student Counseling Register

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

Feedback collected for all the courses: YES

Average percentage of students' participation: 92%

Feedback collection process:

Upon completion of two weeks and fourteen weeks of instruction, a structured questionnaire is administered to gather students' feedback. They are requested to rate their experience as **Excellent, Very Good, Good, Satisfactory, or Not Satisfactory**. The collected feedback is analyzed by the **Head of the Department** and subsequently forwarded to the **Principal**. Faculty members whose average rating falls below the satisfactory level are counseled personally by senior faculty members and the **Head of the Department** to facilitate further improvement.

Interpretation of Feedback Metrics:

- A **high percentage of 'Excellent'** responses indicates a strong rapport between faculty and students, demonstrating effective teaching and student

comprehension.

- A **significant percentage of 'Very Good' and 'Good'** responses suggests that faculty efforts are commendable; however, there remains scope for further improvement.
- A **higher percentage of 'Satisfactory' and 'Not Satisfactory'** responses signifies lower faculty engagement and weaker student rapport. In such cases, faculty members are advised to enhance their teaching effectiveness and undergo counselling by senior faculty.

Utilization of Feedback Comments

The **Head of the Department (HOD)** analyzes the feedback comments and discusses them with the respective faculty members individually. Faculty members who receive a feedback rating below 65%are required to take corrective actions, including attending workshops on effective teaching and learning methodologies to enhance their instructional practices.

Quality Metrics for Teaching &Learning**:**

The following indices are statistically analyzed to derive meaningful insights on each aspect of teaching effectiveness. The results are shared with the respective faculty members for review and improvement.

- Punctuality to class
- Willingness to clear the doubts
- Applications of the topic covered
- Pace of syllabus coverage
- Interaction with the students
- Use of examples & illustrations

SAMPLE FEEDBACK FORM

STUDENT FEEDBACK FORM

B. Tech. **Year** **Sem**

Note: Students should read each point carefully and award points as per the scale given below against each item. The scale is 1-5 i.e.

Excellent-5 Very Good-4 Good -3 Satisfactory-2Not Satisfactory-1

S. No	Subject	Subject -1	Subject -2	Subject -3	Subject -4	Subject -5	Subject -6
1	Punctuality of the teacher						
2	Overall appearance and personality of the teacher						

3	Communicati on skills of the teacher						
4	Subject preparation by the teacher for delivering the lecture						
5	Ability of the teacher to explain particular concepts						
6	Depth of knowledge of the teacher for the subject he/she teaching						
7	Sincerity in teaching						
8	Teacher's ability to maintain discipline in the class						
9	Use of supplementar y teaching methods like providing class notes, printed notes, reference notes etc.						
10	Ability of the teacher to respond to the doubts asked by the students						
11	Fairness in conducting						

	assessment & evaluation, displaying marks						
12	Availability of teacher during college working hours						
13	Relationship with students						
14	Syllabus coverage						
15	Teacher's attempt to teach students at different levels						

Feedback Form–Questionnaire

S. No	Subject
1	Punctuality of the teacher
2	Overall appearance and personality of the teacher
3	Communication skills of the teacher
4	Subject preparation by the teacher for delivering the lecture
5	Ability of the teacher to explain particular concepts
6	Depth of knowledge of the teacher for the subject the/she teaching
7	Sincerity in teaching
8	Teacher's ability to maintain discipline in the class
9	Use of supplementary teaching methods like providing class notes, printed notes, reference notes etc.
10	Ability of the teacher to respond to the doubts as ked by the students
11	Fairness in conducting assessment & evaluation, displaying marks
12	Availability of teacher during college working hours
13	Relationship with students
14	Syllabus coverage
15	Teacher's attempt to teach students at different levels

(i). ***Feedback Analysis:***

PROGRAMME**: B.Tech. in (Electrical & Electronics Engineering)**

A.Y:2024-25

YEAR/SEMESTER**: III / I**

Table B.9.2a: Feedback Analysis

S.No.	Faculty Name	Subject	Percentage	Aspect / corrective action if any
1	Dr. P.P. Sharma	Power Electronics	86.00	
2	Mr. M.Ranjith Kumar	Power Systems -II	90.00	
3	Dr. K.Hari Krishna	Power System Analysis	88.00	
4	Dr. L. Shanmukha Rao	Utilization of Electrical Energy	89.00	
5	Dr. Nagarjuna	Software Engineering	86.00	
6	Dr. P.P. Sharma &Mr.J. Sunil Babu	Power Electronics Lab	90.00	
7	Dr. L. Shanmukha Rao & Mr. P. Venu Babu	Electrical Simulation Lab	93.00	
8	Dr. M. Sridhar Reddy	Employability Skills	87.00	

(ii) Number of corrective actions taken:

Table B.9.2b: Corrective measures taken based on feedback analysis

S.No	Name of the Faculty	Average Percentage Of Feedback	Corrective Action
-NIL -			

9.3 Feedback on facilities (5)

A well-planned and modernized college infrastructure plays a crucial role in enhancing the learning experience, particularly for students from remote areas. Improved infrastructure not only facilitates better access to education but also contributes to increased attendance and engagement among both students and faculty. Investments in college infrastructure are essential for addressing accessibility challenges and enhancing student performance. **Classrooms and laboratories** form the backbone of institutional infrastructure. It is imperative not only to ensure a sufficient number of classrooms but also to maintain well-designed, comfortable, and conducive learning environments. Properly planned infrastructure serves as a key factor in effective teaching and learning, while also acting as a catalyst for improved student attendance and faculty motivation.

To assess and enhance the quality of infrastructure, **feedback from students and faculty is collected once every semester** and analysed for continuous improvement.

Feedback Collection Process:

- A well-established feedback mechanism is followed by the institute.
- Feedback system is online and participants 'identities are protected
- Above80% of students participate in feedback

Corrective measures:

Based on the feedback provided by students, identified issues are reviewed, and necessary corrective actions are implemented within **one to two weeks**, depending on the nature and complexity of the required improvements.

The **indices used to assess the quality of facilities and services provided by the institution** are designed to support the overall growth and development of students. These metrics are systematically analysed to ensure continuous enhancement of the learning environment.

Particulars to be filled in the form

SA – Strongly Agreed A –Agreed N–Neutral D– Disagree
SD– Strongly Disagree

1.	The prescribed books/reading materials are available in the library				
	1)SA	2)A	3)N	4)D	5)SD
2	Results and attendance records are displayed on time				
	1)SA	2)A	3)N	4)D	5)SD
3	The campus has adequate power supply.				
	1)SA	2)A	3)N	4)D	5)SD
4	The classrooms are clean and well maintained				
	1)SA	2)A	3)N	4)D	5)SD
5	Equipment in the lab(s)are in working condition				
	1)SA	2)A	3)N	4)D	5)SD

6	The functioning of the CGTP cell is satisfactory				
	1)SA	2)A	3)N	4)D	5)SD
7	Toilets/Washrooms are hygienic and properly maintained				
	1)SA	2)A	3)N	4)D	5)SD
8	Internet facility is available in the department				
	1)SA	2)A	3)N	4)D	5)SD
9	Grievances/problems are redressed/ solved well in time				
	1)SA	2)A	3)N	4)D	5)SD
10	Available reading space in the library/the seminar hall is satisfactory				
	1)SA	2)A	3)N	4)D	5)SD
11	Is Sports infrastructure adequate?				
	1)SA	2)A	3)N	4)D	5)SD
Suggestions for improvement in Infrastructure:					

(i) Feedback Analysis:

Table B.9.3a: Feedback on Facilities – Analysis

S. No	Parameter	Percentage of Indices				
		SA – Strongly Agreed	**A – Agreed**	**N – Neutral**	**D – Disagree**	**SD– Strongly Disagree**
1	The prescribed books/reading materials are available in the library.					
2	Results and attendance records are displayed on time.					
3	The campus has adequate power supply.					
4	The classrooms are clean					

	and well maintained.					
5	Equipment in the lab(s)are in working condition.					
6	Functioning of the placement cell is satisfactory.					
7	Toilets/Washrooms are hygienic and properly maintained.					
8	Internet facility is available in the department.					
9	Grievances/problems are redressed/solved well in time.					
10	Available reading space in the library/the seminar hall is satisfactory.					
11	Is Sports infrastructure adequate?					

The analysis is conducted based on student feedback, focusing on the **percentage of indices used to measure the quality of facilities and services provided by the institution**. The findings are then forwarded to the **management** for necessary corrective actions.

(ii) Corrective Actions Implemented:

The following suggestions, provided by students in their feedback on institutional facilities, have been reviewed and implemented within the stipulated timeframe.

- The maintenance of Toilets/Washrooms is improved.
- Good Sports facilities on the campus are created.
- Internet bandwidth is increased.
- LCD projector is provided in each laboratory.
- Global certification Program is initiated by CGTP Cell.

9.4 Self – Learning (5)

Self–Learning Facilities Provided by the Institution

Self-Directed Learning (SDL) is a structured approach where learners take initiative

in acquiring knowledge and developing problem-solving skills. Self-directed learners actively engage in learning activities such as:

- Exploring online learning materials
- Completing classroom tasks independently
- Setting and evaluating learning milestones

SDL fosters goal-setting, decision-making, and collaborative learning, enabling students to navigate diverse learning environments effectively. Technology-enhanced learning environments provide students with ample opportunities to cultivate self-directed learning habits.

Benefits of Self-Directed Learning (SDL):

- Blended learning environments facilitate student interaction with instructors and peers through discussions while allowing flexible access to multimedia learning content.
- Autonomy in learning (choice of what, when, and how long to study) enhances engagement and improves learning outcomes.
- Online learning platforms enable students to explore resources, participate in discussions, and develop inquiry-based learning skills.
- Self-Assessment (SA) plays a crucial role in SDL, allowing students to evaluate their progress and refine their learning strategies.

KHIT's Commitment to Self-Directed Learning

KHIT actively promotes self-directed e-learning by providing access to a variety of self-learning facilities and subscriptions (detailed in Table B.9.4a). These resources enhance students' knowledge through self-paced, technology-driven courses, incorporating the latest expertise in digital learning.

Additionally, Self-Assessment (SA) and certification programs are integrated into the learning process, reinforcing students' motivation to achieve their academic and professional goals.

Table B.9.4a: List of Self-Learning Facilities and Subscriptions Available

S.No	Subscription	URL	Details
1	SWAYAM-NPTEL: Local Chapter	https://nptel.ac.in/LocalChapter/details.html	SWAYAMis an instrument for self-actualization providing opportunities for lifelong learning through Massive Open Online Courses (MOOCs).
2	Coursera	https://www.coursera.org	Coursera is an education platform that partners with top universities and organizations worldwide, to offer courses online for anyone to take.
3	Vlab – Nodal	http://www.vlab.co.in/	Virtual Labs provide remoteaccess to Labs in various

	center		disciplines of Science and Engineering. These would cater to students at the undergraduate level, post graduate level as well as to research scholars.
4	N-LIST	https://nlist.inflibnet.ac.in/	The N-LIST project provides access to e-resources to students, researchers, and faculty from colleges and other beneficiary institutions through server(s) installed at the INFLIBNET Centre.
5	National Digital Library of India	https://ndl.iitkgp.ac.in/	All types of resources, such as Books, Audio Books/Lectures, Video lectures, Lecture Presentations/Notes, Simulations, Question Papers, Solutions, etc.
6	TCS iON	https://learning.tcsionhub.in/iDH/India/	TCS iON digital learning hub is a complete learning solution for self-paced learning. The learner can upskill, test and analyse the outcomes through the assessments.
7	CISCO Networking Academy (Netacad)	Cisco Networking Academy: Learn Cybersecurity, Python & More	CISCO Networking academy is a platform for the students to learn number of Skill oriented courses to promote all-round development.
8	CM's Centre of Excellence	https://apssdc.in	*APSSDC* is a unique organization formed as a Public- Private Partnership (PPP) corporation to promote skill development &entrepreneurship among the students.
9	AICTE – NEAT Codetantra	https://khitguntur.codetantra.com/login.jsp	Codetantra is an empanelled EdTech company with AICTE – NEAT platform. Learning and Certification programs on programming languages are conducted by Codetantra are recognized by AICTE.

10	Global Certification	https://www.theSmartBridge.com	It offers Virtual Instructor-Led Training (VILT), guided projects, assessments, mentoring, AMA sessions, certification preparation, and interview readiness modules to the students.
11	APSCHE edX Global Learning Network (GLN)	enterprise.edx.org/ APSCHE	It is an initiative by the **Andhra Pradesh State Council of Higher Education (APSCHE)** in collaboration with **edX** to provide high-quality, globally recognized online courses to students. It enables learners to access self-paced and instructor-led programs from top universities, enhancing their skills and employability.

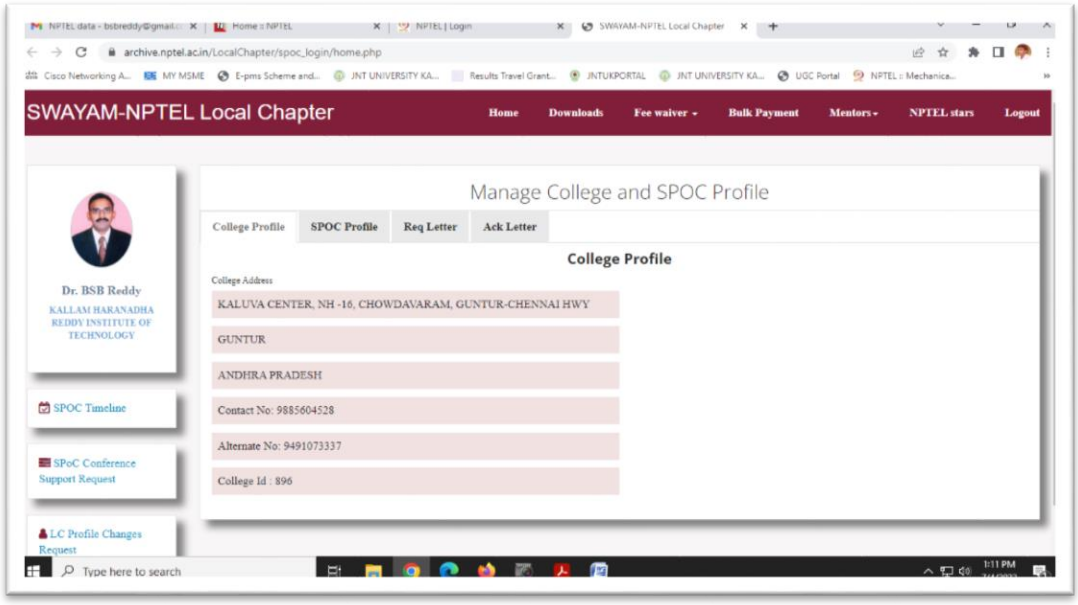

Fig. 9.4a. SWAYAM-NPTEL Local Chapter Dashboard

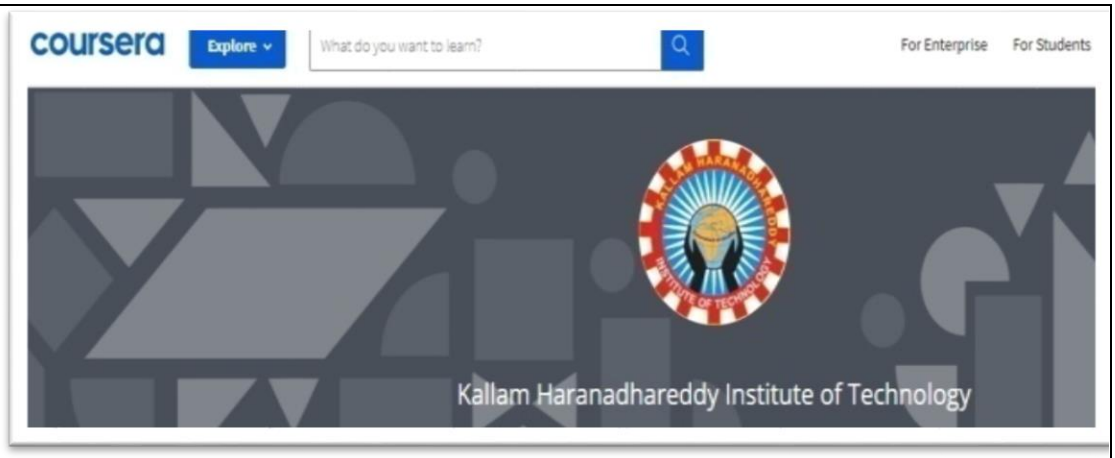

Fig. 9.4b. CourseraDashboard

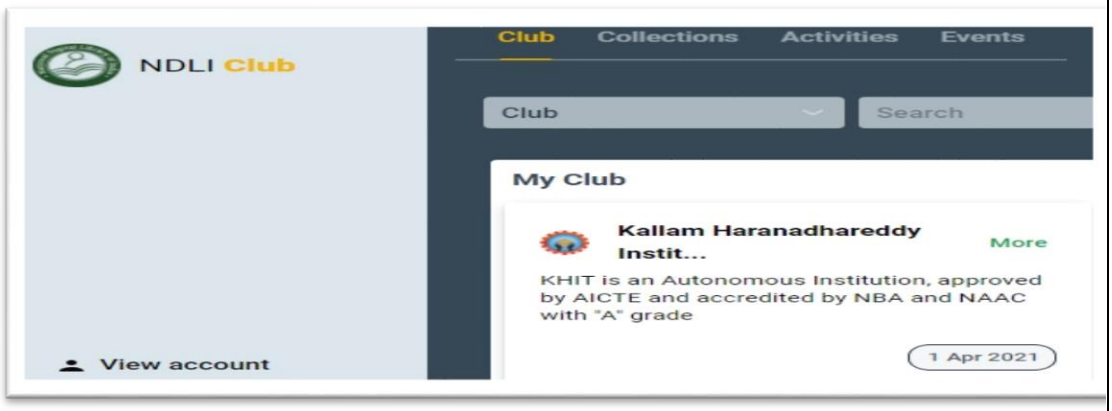

Fig. 9.4c. NDLI ClubDashboard

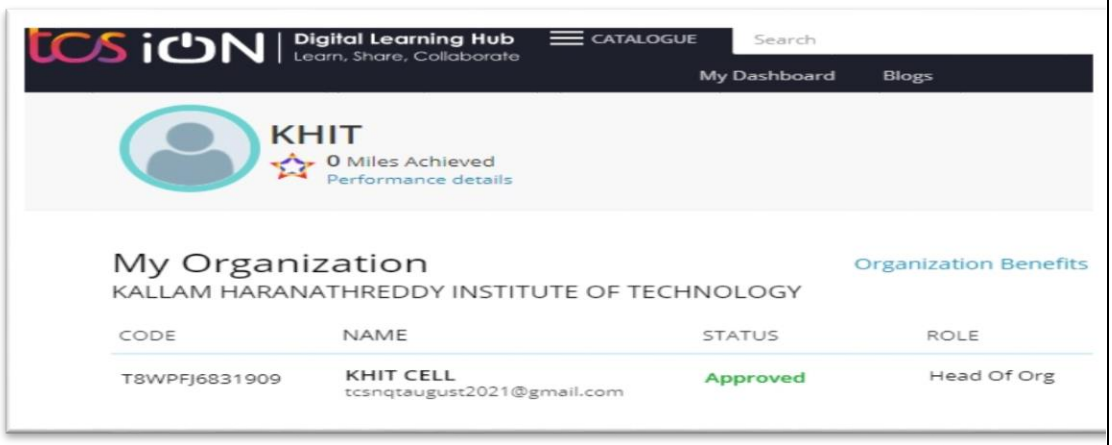

Fig. 9.4d. TCS ION Dashboard

Table B.9.4b: Registrations and user details

Item	Batch	CSE	ECE	EEE	ME	CE	IT	AI&ML	DS	AI&DS	TOTAL
SWAYAM-NPTEL	2020-24	776	767	235	313	478	263	265	-	-	3097

CodeTantra (C, Python)	2020-24	420	410	110	227	228	140	138	-	-	1673
edX	2021-25 & 2022-26	-	-	-	-	-	63	126+199 =325	70	66	524
Global Certification	2021-25 & 2022-26	200	201	-	-	-	63 +67= 130	126+199 =325	70+64 =134	66	458+598= 1056
CISCO Networking Academy (Netacad)	2020-24	396	386	110	216	210	135	137	-	-	1590

KHIT's Commitment to Self-Directed Learning through the edX Platform

KallamHaranadhareddy Institute of Technology (KHIT) is dedicated to fostering **Self-Directed Learning (SDL)** by integrating globally recognized online learning platforms into its academic framework. As part of this initiative, KHIT has leveraged the **APSCHE edX Global Learning Network (GLN)** to provide students and faculty with access to **high-quality, self-paced courses** from renowned institutions worldwide.

Through this platform, KHIT has successfully enhanced learning opportunities in cutting-edge technological domains. A total of **524 students and faculty members** have successfully completed various courses, including:

- **Machine Learning with Python: A Practical Introduction**
- **Java Programming Fundamentals**
- **Big Data**
- **Data Science**
- **Compiler Design**
- **Deep learning Fundamentals with Keras**

By utilizing the edX platform, KHIT has empowered students to **enhance their technical skills, stay updated with industry trends, and gain globally recognized certifications**. This initiative not only strengthens academic excellence but also boosts employability by equipping learners with **real-world problem-solving skills**.

KHIT remains committed to **expanding digital learning opportunities** and ensuring that students receive the best possible resources for their academic and professional

growth. Moving forward, the institution aims to **increase participation, introduce more diverse courses, and integrate self-assessment tools** to further enhance the learning experience.

KHIT continuously encourages students and faculty to explore **new-age technologies** through online learning, fostering a culture of **continuous upskilling and innovation**. The successful completion of these courses has significantly **enhanced analytical thinking, coding proficiency, and problem-solving abilities** among learners. Additionally, the institution plans to **collaborate with industry experts and expand course offerings** to align with emerging trends and industry demands.

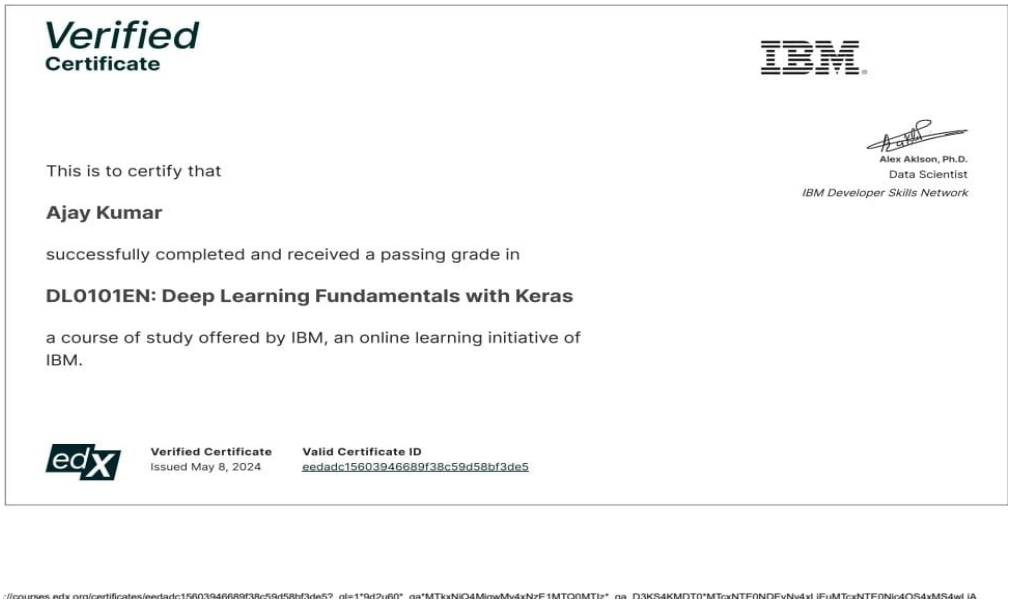

Fig. 9.4e: edX completion certificate in Deep Learning Fundamentals

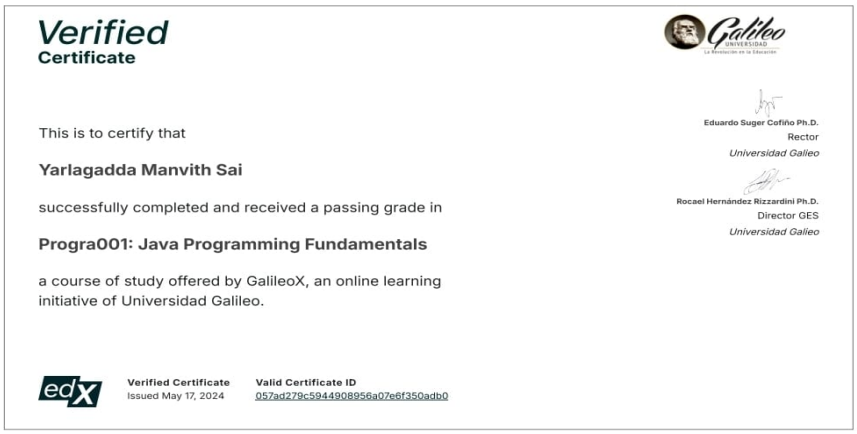

Fig. 9.4f: edX completion certificate in JAVA Programming Fundamentals

9.5 Career Guidance, Training, Placement (10)

Career Guidance, Training & Placement Cell (CGTP) at KHIT

The Career Guidance, Training & Placement (CGTP) Cell at Kallam Haranadhreddy Institute of Technology (KHIT) plays a pivotal role in shaping the future of students by ensuring **successful placements** right after graduation. The primary objective of the CGTP Cell is to **guide, motivate, and equip students with essential skills** from the very beginning of their academic journey, fostering a culture of **excellence and goal-oriented development**.

Through its meticulously designed programs, the CGTP Cell empowers students to **define their career goals** while unlocking their inherent talents proactively. The initiatives undertaken by the cell aim not only to provide **extensive training and career guidance** but also to **bridge the gap between academia and industry requirements**. **KHIT is committed to creating meaningful employment opportunities** by connecting students with **top-tier companies, including core industries, high-tech enterprises, and leading Indian and global organizations**.

To meet the **diverse needs of students** across various academic and performance levels, the CGTP Cell adopts a **dynamic and inclusive training approach**. It offers **comprehensive modules** to enhance key competencies and prepare students for **successful careers in competitive professional landscapes**. Additionally, the **CGTP Cell serves as the Single Point of Contact (SPOC) for liaising with the local industry**, exploring **internship opportunities** for students to gain hands-on experience and industry exposure.

By fostering a **nurturing environment for holistic development**, the CGTP Cell at KHIT remains dedicated to helping students **realize their aspirations and achieve remarkable success in their professional journeys**.

Vision

Equipping the students with relevant and conceptualized professional skills and guiding them toward a bright career.

Mission

- Provide necessary behavioral inputs through a structured program so that our students can take up & overcome any challenges at work & the personal front
- Cultivate the best talent pool on key proficient skills acknowledged by the industry through structured training programs
- Arrange internships and coordinate campus placement programs to fulfill the commitment of every aspirant

Goals

- To enhance the employability skills among the students to meet out the corporate expectations.
- To improve the industry–institute relationships
- To place all the students in the prospective IT/ Core Companies.

Objectives

- To groom the student into a confident, competent, self-disciplined individual, fully equipped with academic prowess, practical acumen and strong personal skills
- To give expertise counseling to every aspirant student to define their career interests
- To design & organize training programs for the students on strategically relevant proficient skills along with academics to make them industry-ready
- To integrate and interface with the industry continuously by organizing, coordinating frequent guest lectures, industry tours, and implant training of industrial relevance to the students

Table B.9.5a: Career Guidance, Training and Placement Committee

	Name	**Position & Designation**
1	Dr. B. S. B. Reddy	Chairman – Principal
2	Dr. P.L. Madhava Rao	Convenor– Dean, CGTP Cell
3	Dr. B. BinduMadhavi	Co-ordinator
4	Mr. K. Mohana Krishna	Placement Associate - ECE
5	Mr. M. ManthruNaik	Placement Associate - CSE
6	Mr. J. Sunil Babu	Placement Associate - EEE
7	Mr. M. Jugal Kishore	Placement Associate - CE
8	Mr. Sk. Meeravali	Placement Associate - ME
9	Mr. B V V H Chandra Sekhar	Placement Associate - IT
10	Mr. E. Sambashiva Rao	Placement Associate – AI&ML
11	Mr. R. Ananda Babu	Placement Associate – AI&DS
12	Mr. Y. Siva Naga Raju	Placement Associate - DS

Table B.9.5b: Action Points

Action	**Target Group**	**Scheduled Time**	**Details**
Create Awareness on the Internship Program	B.Tech 2nd, 3rd, and 4th Year Students	August (Odd Semester) & January (Even Semester)	Conduct workshops/seminars to explain the importance of internships, available opportunities, and application procedures.
Invite Corporate Companies for Internships	B.Tech 2nd, 3rd, and 4th Year Students	One Month in Odd Semester &Two Months in Even Semester	Initiate partnerships with industry leaders to offer paid/unpaid internships. Organize internship fairs.

Industry & Institute Interaction Platform	All B.Tech Students	August-November (Odd Semester) & January-April (Even Semester)	Arrange expert talks, and webinars with industry experts on corporate skills such as teamwork, adaptability, and technical skills.
Corporate Invitations for Campus Hiring (On/Off)	All B.Tech Students (Post 6th Semester)	June to August (Odd Semester)	Maintain a corporate database and build connections for campus recruitment drives.
Internship + Placement Opportunities for Final Year Students	Graduating B.Tech Students (Post 6th Semester)	Throughout Final Year	Provide guidance on blending internships with final placements for hands-on experience and smoother transition to full-time roles.
Appoint CGTP Ambassadors to Support Students	B.Tech Students (From 2nd Year Onwards)	Beginning of Each Academic Year	Identify and train students as campus placement ambassadors to mentor peers and share knowledge.
Soft Skills and Career Guidance Workshops	All B.Tech Students	Throughout the Year	Conduct regular sessions on communication skills, group discussions, and personal branding.
Mock Placement Drives	Final Year Students	One Month Before Placement Season	Simulate actual placement processes, including aptitude tests, technical interviews, and HR rounds.
Resume Building & Profile Optimization Sessions	B.Tech Students (All Years)	Twice Per Academic Year	Offer professional guidance on crafting impactful resumes and optimizing LinkedIn profiles.
Hackathons and Coding Contests	All B.Tech Students	Twice Per Academic Year	Encourage participation in national and international hackathons. Conduct internal competitions to identify and groom talent for external events.
Inter Departmental Collaboration	B.Tech Students Across Branches	Throughout the Year	Promote interdisciplinary projects where students from different branches work together on innovative ideas and solutions.

Public Speaking & Presentation Workshops	All B.Tech Students	Monthly Sessions	Conduct workshops to build students' confidence in delivering impactful presentations and articulating ideas during interviews and events.
Industrial Visits and Bootcamps	All B.Tech Students	August-November (Odd Semester) & January-April (Even Semester)	Facilitate visits to industries and boot camps for practical exposure and networking opportunities.
PAN IndiaRecruitment Tests Training	Final Year Students	Prior to Placement Season	Offer specialized training sessions in coding, technical assessments, and interview skills.
Advanced Problem-Solving Contests	All B.Tech Students	Biannual	Organize "Code Sprint" and problem-solving marathons to build stamina for timed coding challenges.
Alumni Mentorship Circles	B.Tech Students (All Years)	Throughout the Year	Establish mentor-mentee relationships between alumni and current students for continuous guidance on career preparation and technical learning.
Placement Preparation Week	Final Year Students	Before every Placement drive	Organize an intensive week-long event with quizzes, mock assessments, coding challenges, and expert guest lectures.
Real-Time Projects & Case Studies with the involvement of student clubs	B.Tech 2nd, 3rd, and 4th Year Students	Throughout Academic Year	Encourage students to collaborate with industry mentors to solve real-world problems. Use platforms like GitHub for project management and version control

CGTP Cell, KHIT: Comprehensive Campus Placement Strategy

1. Industry Partnerships: Building Strong Corporate Connections
2. Skill Development Programs: Equipping Students for Success
3. Technical Training-Certifications: Job readiness and Global Certification
4. PAN India Qualifying Tests: Training Programs
5. Mock Interviews: Enhancing Placement Readiness
6. Networking and Alumni Support: Leveraging Real-World Experience
7. Student Clubs: Fostering Innovation and Professional Growth
    - Professional Skills Corner: Developing Essential Workplace Skills

- Programming Hub: Coding, Collaboration, and Innovation
- Innovation Club: Problem Solving and Prototype Development

Strategy Execution and Monitoring:

1.Industry Partnerships: Building Strong Corporate Connections

- Establish long-term relationships with leading corporations across diverse industries.
- Organize regular industry-institute interaction events to bridge the gap between academia and the corporate world.
- Promote internships to provide students with valuable hands-on experience and exposure to real-world challenges.

At KHIT, one of the premier institutions in Andhra Pradesh, courses are meticulously designed in consultation with industry experts, aligning with current trends and future market demands to equip students with the skills required for a dynamic professional landscape.

Table B.9.5c: Industry Expert Awareness Sessions for A.Y:2024-2025

S. No.	Program Title	Program Sponsored/Speaker	Purpose	Date	Target Group
1	" Careers in Privacy"	Mr. SupreetPanigrahi, Senior Manager, Privacy Control Assurance Standard Charted Bank	Career Talk	08-06-2024	All B.Tech Students
2	"Data Analytics and AI Application and Learning Models"	Mr.VipulJhunJhunwala, Senior Manager, Data Analytics and AI, SAP	Career Talk	27-06-2024	All B.Tech Students
3	"Evaluation of AI and its Impacts"	Mr. BadrinathNukala, Associate Consultant, KPMG	Career Talk	05-07-2024	All B.Tech Students
4	"Data Engineering and Careers"	Mr. Aravind Ramachandran, Senior Manager, Tredence	Career Talk	13-07-2024	All B.Tech Students

5	"Essential Skills for Industry Success"	Mr. ValmikSangale, General Manager, MAGNA	Career Talk	20-07-2024	All B.Tech Students
6	"Orientation on Hackathon"	Mr. Sridhar Arumugasamy, Director, Six Phrase	Awareness Session	27-07-2024	All B.Tech Students
7	"Strategies to propel Students into careers: An Educator's Guide"	Mr. Prasad Chandran, Training Manager, FacePrep	Live Webinar	8-08-2024	4th B.Tech Students (2024-2025)
8	"Innovate to Win: Idea Generation & Execution Strategies for Smart India Hackathon Success"	Mr. N. Venkata Reddy, CEO, Techteam Solutions	Awareness Session	19-02-2023	B.Tech 4th Years (2021-225)
9	"Process Mining and Career Opportunities"	Ms. PoornimaDhall, Lead Partner Manager, Academic Alliance, Cellonis Mr. Rishi Puri& Mr. Kiran Lakhwani, Lead Business Consultant, Tech Mahindra	Webinar	22-10-2024	All B.Tech Students
10	"Kick Start with Cybersecurity"	Mr. UmakanthTripathi, Director, Cyber Security, LTIMINDTREE	Webinar	29-10-2024	All B.Tech Students

11	"Process Mining and Career Opportunities"	Ms. PoornimaDhall, Lead Partner Manager, Academic Alliance, Celonis Ms. Vishnu PriyaElluru, Associate Director, Deloitte	Webinar	03-12-2024	All B.Tech Students
12	"Building Skills and Sharpening it- How to develop a skill"	Mr. Sunil Sonare, Chief Technology Officer, Tech4 logic	Career Talk	12-12-2024	All B.Tech Students
13	"Career Opportunities in the Cybersecurity Field"	Mr. UmmedMeel, Cyber Expert- Cyber Advisory Services	Career Talk	21-12-2024	All B.Tech Students
14	"Building your Career in Emerging Technologies"	Mr. Gajendra Deshpande, Founder and Managing Director, D Theta Dynamics	Career Talk	30-12-2024	All B.Tech Students
15	"Shaping Your Career Goals in Advanced Software Engineering"	Mr. ParsuramPanigrahi, Senior Director of Engineering, Highradius	Career Talk	08-01-2024	All B.Tech Students
16	" Career in Digital Forensics & Incident Response(DFIR)	Lt. Col(Dr.) Santosh Khadsare, Chief Technology Officer(DFIR), SYSTOOLS	Career Talk	11-01-2025	All B.Tech Students

17	"World of Digital Risk in Evolving Digital Era"	Mr. Vinit Sinha, Chief Information Security Officer(CISCO)	Career Talk	17-01-2025	All B.Tech Students
18	"The AI Networking Era: Exciting Career Opportunities"	Mr. Arun Kumar, Principal Engineer&AI/ML Leader, JUNIPER	Career Talk	4-02-2025	All B.tech Students
19	"Ansys Academic Program- Developing the Next Generation of Engineers"	Mr. Abhimanyu Singh, Technical Leader – Academic (India and ASEAN), ANSYS	Career Talk	5-02-2025	All B.Tech Students

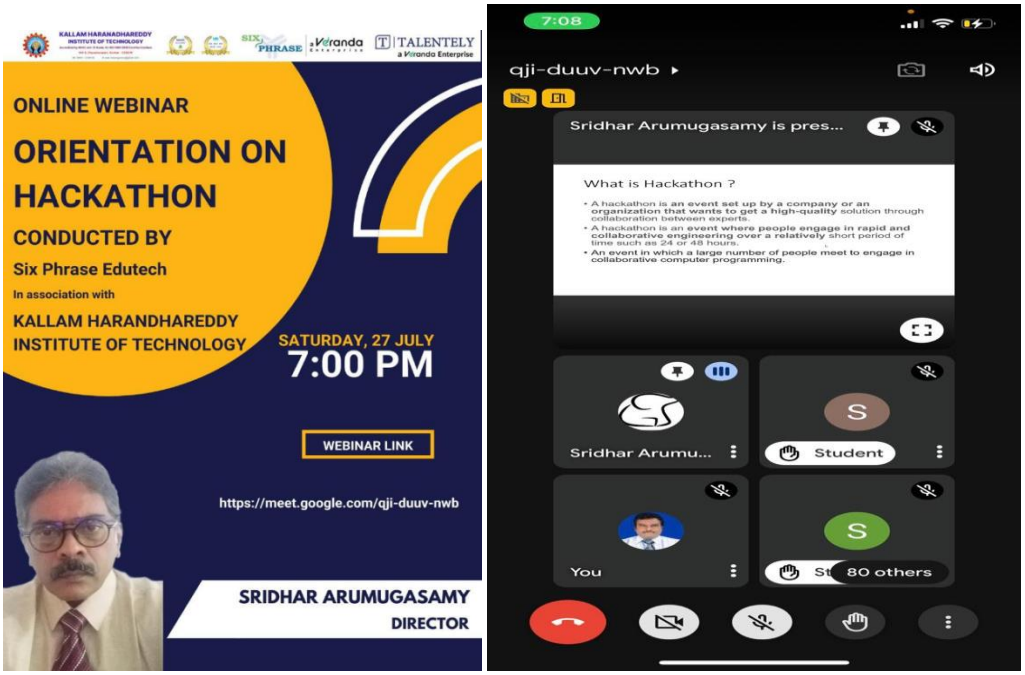

Fig. 9.5a: Orientation on Hackathon by Mr. Sridhar Arumugasamy, Sixphrase in association with CGTP Cell on 27.7.2024@7pm

Table B.9.5.d: Industry Expert Awareness Sessions for A.Y: 2023-2024

S. No.	Program Title	Program Sponsored/Speaker	Purpose	Date	Target Group
1	"Career Pathways in RPA Technologies and Future Prospects"	1. Mr. Vishnu Vardhan, RPA Solution Architect, Qualesce 2 Ms. Vandana HM, RPA Solution Architect, Qualesce	Career Talk	30-06-2023	All B.Tech Students
2	"Harnessing Hackathons: Your Pathway to Top Placements"	Mr. NallamilliVenkata Reddy. M.S(Robotics), M.B.A Founder - CEO, Techybot and VihangaElectrix Visakhapatnam	Awareness Session	13-7-2023	B.Tech 4th Years (2020-24)
3	"Career Opportunities in Govt. Sector"	Mr. Salil Agarwal, Project Manager, BHEL	Career Talk	27-07-2023	All B.Tech Students
4	"Awareness Program on Zscaler Zero Trust Cloud Security Virtual Intership Future Career Opportunities and Scope"	Mr. AbhirNaik, Senior Academic Content Developer and Trainer, ZAAP, Zscaler	Career Talk	09-08-2023	All B.Tech Students
5	"Careers in Cyber Security"	Mr. VikasGoyal, Sr. Director-IT Security, FIS Global	Career Talk	30-09-2023	All B.Tech Students
6	"Careers in Data Analytics Process Automation"	Mr. DhavalDoshi, Assistant Vice President, JP Morgan Chase&Co	Career Talk	05-10-2023	All B.Tech Students
7	"Cracking the Code Alteryx Expert Insights and Certification Tips"	Mr. Subrath Das, Associate Vice President Analytics, IMO	Career Talk	19-10-2023	All B.Tech Students

8	" Careers in Hyper Automation RPA"	Mr. Sarthak Das, Intelligent Automation Manager, Pepsico	Career Talk	28-10-2023	All B.Tech Students
9	"Structural Design Technical Session"	Mr. Suvam Chatterjee, Education Consultant, Bently Education	Career Talk	02-11-2023	All B.Tech Students
10	"Cloud Computing and Introduction to AWS"	Mr. Raj Chilakapati, Chief Evangelist, Minfy	Career Talk	04-11-2023	All B.Tech Students
11	"5G and AI in Cyber Security will Revolutionize the next Decade Job Landscape"	Dr. DebabrataNaik, Head of Cyber Security, Ericsson	Career Talk	11-11-2023	All B.Tech Students
12	"Campus to Corporate: What the Industry Demands"	Mr. Dasari. Sai PremCharan Data Engineer, Hexaware Private Ltd	Awareness Session	14-12-2023	B.Tech 4thYears (2020-24 Batch)
13	"Role of Product Technical Knowledge in Shaping Allegiance and Brand Success"	Mr. Siddharth Agarwal, Head of Information Development, Newgen Software	Career Talk	16-12-2023	All B.Tech Students
14	"Cyber Security and the Future"	Mr. Usman Ahmed, Technical Head, Cyber Security, Thales	Career Talk	18-12-2023	All B.Tech Students
15	"Corporate Readiness: Bridging Academics and Professional Success"	Mr. NamalaHarshavardhan, HTC Global Services Pvt Ltd	Awareness Session	21-12-2023	B.Tech 4th Years (2020-24)
16	"Understanding Full Stack Development and Software	ExceLR	Webinar	17-01-2024	B.Tech 2nd ,3rd& 4thYear

	Testing”				s
17	CISCO NET ACAD- Themes of AI (Gen AI) and ML in today’s world	CISCO ACADEMY	Awareness Session	24-01-2024	B.Tech 2nd ,3rd& 4thYears
18	"The Career Shift: Preparing for Corporate Excellence"	Mr. Abhishek Doijode, Campus Hiring, University relations, Virtusa	Awareness Session	03-02-2024	B.Tech 4th Years (2020-24)
19	“Shaping Your Future in Cloud Technology”	Mr. Shubam Nigam, Associate Principal Engineer, Nagarro	Career Talk	10-02-2024	All B.Tech Students
20	"Unlocking Potential: Transitioning Smoothly to the Corporate Sphere"	Mr. N. Vasishta, Data Engineer, Hexaware Private Ltd	Awareness Session	15-02-2024	B.Tech 4th Years (2019-23)
21	“ Career in Technical Writing”	Mr. Siddarth Aggarwal, Head of Information Development, NEWGEN	Career Talk	24-02-2024	All B.Tech Students
22	“Empowering Women in Tech: Inside AWS Data Centers in India”	Amazon Web Services	Webinar	03-04-2024	B.Tech 3rd and 4th year female students
23	“Networking Fundamentals”	CISCO Ideathon Team	Webinar	25-04-2024	B.Tech 1st, 2ndand 3rd year
24	“Career in Cloud Technologies”	Mr. Samir Pradhan, Senior Technical Architect, VIAPLUS	Webinar	27-04-2024	All B.Tech Students
25	Bently Structural Analysis with Staad	AICTE-Eduskills	Webinar	07-05-2024	Faculty and B.Tech students

26	Water Resource Management	AICTE-Eduskills	Webinar	06-05-2024	Faculty and B.Tech students
27	"Future Proof Your Engineering Career with AI and Generative AI"	Mr. Kiran Chandaka, Vice President, State Street	Career Talk	15-05-2024	All B.Tech Students
28	"Careers in Data Analytics Process Automation"	Mr. DhavalDoshi, Assistant Vice President, JP Morgan Chase&Co	Career Talk	16-05-2024	All B.Tech Students
29	"Career Opportunities in Robotics Process Automation"	Mr. Pramit Mall, Senior Technology Specialist, Tesco	Career Talk	31-05-2024	All B.Tech Students

Fig. 9.5b: Participation of students in Career Talk Organized by EduSkills in association with CGTP Cell

Table B.9.5e: Industry Expert Awareness Sessions for A.Y: 2022-2023

S. No.	Program Title	Program Sponsored/Speaker	Purpose	Date	Target Group
1	"Celonis Skilling Trends Trajectories and Career Opportunity in Infosys"	1.Mr. Ngoc Anh Ngo, Academic Alliance Manager, Celonis 2.Mr. Hodson Mc Farland, Associate Client Engagement Manager, Infosys	Career Talk	22-07-2022	All B.Tech Students
2	"Career Opportunities with Juniper Networks"	Mr. PawanMellacheruvu, Technical Training Consultant, Juniper Networks	Career Talk	01-08-2022	All B.Tech Students
3	"Salesforce Initernship & Future Skills Prime"	Mr. Satish Datla Deputy Director NASSCOM – Future Skills Prime	Awareness Session	12-8-22	B.Tech 4th Years (2019-23)
4	"Cyber Security Awareness Programme on Countering Cyber Attacks & Cyber Frauds"	Mr. Vedant Narayan, CERT-In, Delhi	Awareness Session	7-9-22	B.Tech 2nd Years (2021-25 Batch)
5	"Nationwide Placement Success: Tips and Techniques "	Mr. N. Venkata Reddy, CEO, Techteam Solutions	Awareness Session	19-02-2023	B.Tech 4th Years (2019-23)

6	"Winning Tactics for Placement Exams Across India"	Mr. V. Sreenivasa Reddy, Senior Recruitment Manager and Location Head, Vijayawada, Tech Mahindra Ltd.	Awarenes s Session	23-10-2022	B.Tech 4thYears (2019-23)
7	"Navigating the Path: Classroom Lessons to Corporate Success"	Mr. Amit Saha, Deputy Director ExceLR, Bangalore	Awarenes s Session	15-07-2022	B.Tech 4th Years (2019-23)
8	“The Career Shift: Preparing for Corporate Excellence"	Mr. P. UdayTeja, Software Engineer, HCL	Awarenes s Session	16-03-2023	B.Tech 3rdYears
9	“Career Opportuniti es in Synechron”	Mr. RanjanaSagar, Associate Director(Recruitme nt), Synechron	Career Talk	27-05-2023	All B.Tech Students

Table B.9.5f: Industry Expert Awareness Sessions for A.Y: 2021-2022

S. No.	Program Title	Program Sponsored/Speake r	Purpose	Date	Target Group
1	"From Learning to Earning: Understandi ng Corporate Expectation s"	Mr.K. Siva Kalyan, Accion Labs, Bangalore	Awareness Session	2-10-2021	B.Tech 4th Years (2018-22)

2	"Campus to Corporate: What the Industry Demands"	Mr. Harish Reddy Nandipati, Microsoft Consulting Services, Bangaluru	Awareness Session	8-11-2021	B.Tech 4th Years (2018-22)
3	“Market is dynamic- How to become employable ?”	Mr. Mr. SrikanthSetty, Principal Business Analyst, TTEC Digital Analytics India	Awareness Session	22-10-2021	B.Tech 4th Years (2018-22)
4	“Corporate Expectations: From Classroom to Cubicles"	Mr. Krishna Deekshithulu, Senior Software Engineer, HCL	Awareness Session	23-1020-21	B.Tech 4th Years (2018-22)
5	"Mastering Core Concepts and Interview Strategies”	Mr. G K Reddy, Manager Scientist, Austin Texas	Awareness Session	23-10-2021	B.Tech 4th Years (2018-22)
6	"Unlocking Success: Expert Insights for Excelling in Campus Placements"	Mr. Chandra SekharMerugumala, Solution Architect-Hitachi	Awareness Session	27-10-2021	B.Tech 4th Years (2018-22)
7	“Strategy to deal Gamified Puzzles in Campus Placements”	Mr. N.L.N. Sharma (IIT-KGP) UNACADEMY – New Delhi	Awareness Session	8-12-2021	B.Tech 4th Years (2018-22)
8	"Crafting Winning Resumes and Mastering	Mr. Sai Satish, CEO of Indian Servers, Vijayawada	Awareness Session	7-11-2021	B.Tech 4th Years (2018-22)

	Soft Skills for Corporate Success"				
9	"Frontiers of Cloud Computing at Mphasis"	1. Mr. Ramesh Krishnana, Head Digital, Cognitive& Cloud Delivery, Mphasis 2. Mr. LokeshMehra, Head, South Asia AWS Academy 3. Mr. Joshua David MD, India Campus Lead, Mphasis	Career Talk	19-11-2021	All B.Tech Students
10	" RPA Technologies and Future Prospects"	1.Mr. Vipul Tiwari, RPA, COE Engineer Finops, AMAZON 2. Mr. Eric Nguyen, Senior Manager Automation, Synergy Group 3. Mr. Manjunath Chandra Sekhar, Program Manager, APAC Blue Prism	Career Talk	25-11-2021	All B.Tech Students
11	"Ace Pan-India Campus Recruitment Tests"	Mr. Jay Bansal, Software Engineer, GOOGLE	Awareness Session	9-12-2021	B.Tech 4thYears (2018-22)
12	"Process Mining and Future Prospects"	1. Mr. VivekBamodkar, Partner Financial Advisory, Deloitte, India 2. Mr. Ngoc Anh Ngo, Academic Alliance Manager, Celonis	Career Talk	27-01-2022	All B.Tech Students
13	"Bridging	Mr. N. Venkata	Awareness	9-02-	B.Tech 4th

	the Gap: Transitioning from Campus to Corporate"	Reddy, CEO, Techteam Solutions	Session	2022	Years (2018-22)
14	"Process Intelligence with Celinos and KPMG"	1.Mr. Anil Kumar, Director, KPMG, India 2. Mr. Ngoc Anh Ngo, Academic Alliance Manager, Celonis	Career Talk	17-02-2022	All B.Tech Students
15	"Architecting Cyber Security with Next-Gen Firewall"	1.Mr. HuzefaMotiweala, Director, System Engineering, India 2. Mr. Saravanan Raja Gopal, Partner Manager, APAC	Career Talk	22-04-2022	All B.Tech Students

2. Skill Development Programs: Equipping Students for Success

With the job market becoming increasingly competitive, the demand for highly skilled engineers has never been greater. The CGTP Cell at KHIT prioritizes:

- **Soft Skills Training:** Focused sessions on communication, leadership, and teamwork to enhance students' interpersonal skills.
- **Technical Workshops and Certifications:** Programs in emerging technologies to equip students with industry-relevant knowledge.
- **Personality Development Sessions:** Activities aimed at boosting confidence, articulation, and professional etiquette.

These initiatives collectively enhance students' employability, preparing them for successful interviews and boosting placement rates at KHIT.

Table B.9.5g: Soft Skills Training Programs A.Y: 2024-2025

S.No.	Program Title	Program Sponsored/Speaker	Purpose	Date	Target Group
1	"Stop Missing Job Opportunities-Get your Resume Ready for Success"	Mr. SufiayanIshaq, Founder of Cloudhire	Orientation Session	18-12-2024	B.Tech 2nd and 3rd Years

2	"Campus to Corporate: Mastering Placement Strategies & Professional Etiquette"	Mr. N. Vasishta, Data Engineer, Hexaware Private Ltd	Awareness Session	23-08-2024	B.Tech 4th Years (2021-25)
3	"Ace Your Placement: Cracking Interviews with Personal Grooming & Communication Skills"	Mr. Dasari. Sai PremCharan Data Engineer, Hexaware Private Ltd	Awareness Session	07-09-2024	B.Tech 4th Years (2021-25)
4	"The Winning Edge: Grooming, Etiquette & Success Tips for Campus Placements"	Mr. NamalaHarshavardhan, HTC Global Services Pvt Ltd	Awareness Session	21-10-2024	B.Tech 4th Years (2021-25)
5	“Fast Track Your Career Growth with Google Cloud GenAI Course”	Prime Career Mantra	Awareness Session	25-10-2024	B.Tech 4th Years (2021-25)
6	"Placement Success Blueprint: Personal Grooming, Communication & Interview Hacks"	Mr. Ronik Kumar, Software Engineer, Deloitte	Awareness Session	24-10-2024	B.Tech 4th Years (2021-25)
7	"Path to Placement: Building Skills, Confidence & Professional Etiquette"	Mr. Veeramalla Ravi Kumar, Software Engineer, TechMahindra	Awareness Session	24-10-2024	B.Tech 4th Years (2021-25)
8	“21 st Century Employability Skills”	Mr. RupamJha, Senior Associate-Employer Channel, Wadwani Foundation	Orientation Session	29-01-2025	B.Tech 2nd and 3rd Years

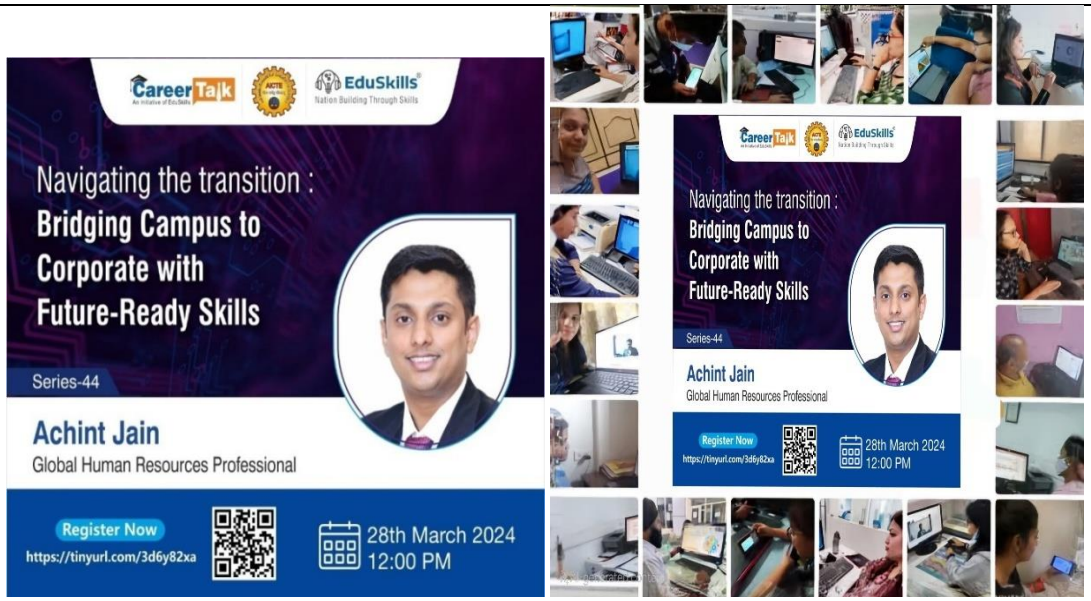

Fig. 9.5c: Career Talk on Navigating the Transition: Bridging Campus to Corporate with Future-Ready Skills by Mr. Achint Jain on 28-03-24

Table B.9.5h: Soft Skills Training Programs A.Y: 2023-2024

S. No.	Program Title	Program Sponsored/Speaker	Purpose	Date	Target Group
1	“Campus to Corporate Transition”	Mr. PiyushGhosal, Associate General Manager HR, JOSH	Career Talk	09-12-2024	All B.Tech Students
2	“Destiny - not Design: Corporate Journey “	Mr. Sailesh S. Vilankar, Sr. Vice President, Schindler	Career Talk	12-12-2023	All B.Tech Students
3	"Unlocking Potential: Transitioning Smoothly to the Corporate Sphere"	Mr. HardhikBakulKakkad, Myra Academy, Hyderabad	Orientation Session	13-12-2023	B.Tech 3rd Years (2021-25)
4	"Stepping into Success: From College Life to Corporate World"	Mr. Karthik Raja, Faceprep, Hyderabad	Orientation Session	14-12-2023	B.Tech3rd Years (2021-2025)
5	“Navigating the Modern Workplace: Unravelling the Core Functions of Human Resources:	Mr. Prosun Das, Senior Manager, GENPACT	Career Talk	22-12-2023	All B.Tech Students
6	"The Career Shift:	Mr. Shankara S,	Orientation	15-12-	B.Tech3r

	Preparing for Corporate Excellence"	Sixphrase, Bengaluru	Session	2023	dYears (2021-2025)
7	“Planning a long fun career in Software Engineering”	Mr. Anil Gulecha, CTO at Kalvium	Live Webinar	21-02-2024	B.Tech 2nd, 3rd and 4th Years
8	“Effective Communication Skills for Cracking the Interviews”	Mr. PiyushGhosal, Associate General Manager, Josh Software, Inc	Career Talk	16-03-2024	All B.Tech Students
9	“Navigating the transition: Bridging Campus to Corporate”	Mr. Achit Jain, Global Human Resource Professional	Webinar	28-03-2024	All B.Tech Students
10	“Role of Technology in Public Services”	Mr. BiswaprakashKar, Senior Consultant, Palladium	Webinar	02-04-2024	All B.Tech Students
11	“How to Prepare for Placement Opportunities?”	Mr. BiswaprakashKar, Senior Consultant, Palladium	Webinar	26-04-2024	B.Tech 2nd and 3rd Years

Table B.9.5i: Soft Skills Training Programs A.Y: 2022-2023

S. No.	Program Title	Program Sponsored/Speaker	Purpose	Date	Target Group
1	"Recent Opportunities of Engineering Sector"	Mr. Ritesh Chandra, Myra Academy, Hyderabad	Orientation Session	3-11-2022	B.Tech 3rd Years (2020-24)
2.	"Future Prospects in the Engineering Industry"	Mr. Karthik Raja, Faceprep, Hyderabad	Orientation Session	4-11-2022	B.Tech3rdYears (2020-2024)
3	"Corporate Readiness: Bridging Academics and	Mr. Shankaram S, Sixphrase, Banguluru	Orientation Session	5-11-2022	B.Tech3rdYears (2020-2024)

	Professional Success"				
4	“Employability Skills for the Future and Career Opportunities ”	MR. Sanjay Khadke, Deputy Manager, APCO	Orientation Session	10-11-2022	All B.TechStudents

Table B.9.5j: Soft Skills Training Programs AY: 2021-2022

S. No.	Program Title	Program Sponsored/Speaker	Purpose	Date	Target Group
1	“Awareness Session on National Talent Hiring”	Dr. E. Srinivasa Reddy, Principal, Acharya Nagarjuna University, Guntur	Awareness Session	15-07-2021	B.Tech 4th Years (2019-22)
2	"Crafting Winning Resumes and Mastering Soft Skills for Corporate Success"	Mr. Sai Satish, CEO of Indian Servers, Vijayawada	Awareness Session	7-11-2021	B.Tech 4th Years (2018-22)
3	"Building Your Brand: Effective Resumes and Soft Skills for the Corporate World"	Mr. Sudheer Sandra Personality Development Trainer & Motivator, Hyderabad	Awareness Session	3-01-2022	B.Tech 3rd Years (2019-2023)
4	"Winning Tactics for Placement Exams Across	Mr. Karthik Raja, Faceprep, Hyderabad	Orientation Session	7-6-2021	B.Tech 4th Years (2018-22)

	India"				
5	"Placement and Internship"	Sakshi Media	Awareness Session	30-11-2021	B.Tech 3rd and 4th year

3. Technical Training and Certifications:

APSSDC Centre for Innovation and Skill Development:

The Andhra Pradesh State Skill Development Corporation (APSSDC) is a Public-Private Partnership (PPP) entity focused on skill development and entrepreneurship. As the "Executive Agency" for the Department of Skill Development, it aims to create a skilled workforce and foster innovation.

Key Initiatives APSSDC collaborates with industry leaders to design job-market-driven training programs. A key initiative is the Chief Minister's Centre of Excellence for Innovation and Skill Development at KHIT, equipped with modern infrastructure, including 65 laptops, to provide hands-on learning.

Table B.9.5k: APSSDC Workshops in A.Y: 2024-2025

S. No.	Program Title	Program Sponsored	Purpose	Date	SPOC/Trainer	Target Group
1	Python ProgrammingWorkshop	APSSDC	1 Week Workshop	12thTo 19th, August, 2024.	Ms. K V Vanitha (8639894276)	B.Tech – ECE 2nd Year 2nd Semester (2023-27 Batch)
2	IOTWorkshop	APSSDC	1 Week Workshop	30th Dec, 2024 To 4th January, 2025.	Mr. B. Mahindhar (996985773)	B.Tech – ECE 3rdYear 2nd Semester (2022-26 Batch)
3	PCB Design	APSSDC	3-Day Workshop	6th To 8th January, 2025	Mr. B. Mahindhar (996985773)	B.Tech – ECE 2nd Year 2nd Semester (2023-

						27Batch)
4	PCB Designi	APSSDC	3-Day Workshop	9th To 11th January, 2025	Mr. B. Mahindhar (996985773)	B.Tech – ECE 2nd Year 2nd Semester (2023-27 Batch)

Table B.9.5l: APSSDC Workshops in A.Y: 2023-2024

S. No.	Program Title	Program Sponsored	Purpose	Date	SPOC/Trainer	Target Group
1	PCB Design	APSSDC	3-Day Workshop	9th, 10th& 11th January, 2024.	B. Mahindhar (996985773)	B.Tech – EEE 3rd Year 2nd Semester (2021-25 Batch)
2	PCB Design	APSSDC	3 Days workshop	23rd, 24th and 25th January, 2024.	B. Mahindhar (996985773)	B.Tech – EEE 2nd Year 2nd Semester (2022-26 Batch)
3	PCB Design	APSSDC	3 Days workshop	29th, 30th and 31st January, 2024.	B. Mahindhar (996985773)	B.Tech – ECE 2nd Year 2nd Semester (2022-26 Batch)

4	PCB Design	APSSDC	3 Days workshop	1st, 2nd and 3rd February, 2024.	B. Mahindhar (996985773)	B.Tech – ECE 2nd Year 2nd Semester (2022-26 Batch)
5	Building Drafting Using AUTOCAD	APSSDC	1 Week Workshop	5th To 12th February, 2024.	V. Brahmesh (9573104915)	B.Tech – CE 2nd Year 2nd Semester (2022-26 Batch)

Table B.9.5m: APSSDC workshops A.Y: 2021-2022

S. No.	Program Title	Program Sponsored	Purpose	Date	SPOC/Trainer	Target Group
1	Wadhwani Foundation	APSSDC	Work Shop	21-07-2021 to 26-07-2021	Ms. N.Krishnaveni, MBA	II B.Tech Students
2	Industrial Automation with PLC Program	APSSDC	Workshop	20.12.21 to 25.12.21	Mr.Y. MadhuVamsi (+91 8121405655)	III/1 - EEE Total 50

Table B.9.5n:Certification Programs: AY: 2024-2025

S. No.	Assessment/ Certification	Program Sponsored	Date	Target Group
1	KHITCODESPRINT-2024	CGTP Cell, KHIT	24-09-2024 & 25-09-2024	All 2nd, 3rd&4th B.Tech
2	Three-Day Google AIML Tech Camp	EduSkills	11-11-2024 to 13-11-	3rdB.Tech Students

			2024	
3	One Week IBM Skill Build Tech Camp	EduNet	25-11-2024 to 30-11-2024	3rd B.Tech Students
4	CISCO Skill-A-Thon	CISCO	1-12-2024 to 15-12-2024	2nd B.Tech Students
5	AICTE EduSkills Cohort-9	EduSkills	2-07-2024 to 30-08-2024	All 2nd and 3rd year B.Tech
6	AICTE EduSkills Cohort-10	EduSkills	1-09-2024 to 30-12-2024	All 2nd and 3rd year B.Tech
7	AICTE EduSkills Cohort-11	EduSkills	2-01-2025 to 30-03-2025	All 2nd and 3rd year B.Tech
8	Global Certification	Smart Bridge	21-12-2024 to 08-03-2025	3rd(CSE allied Branches) and 4thyear(CSE allied and branches and ECE) B.Tech

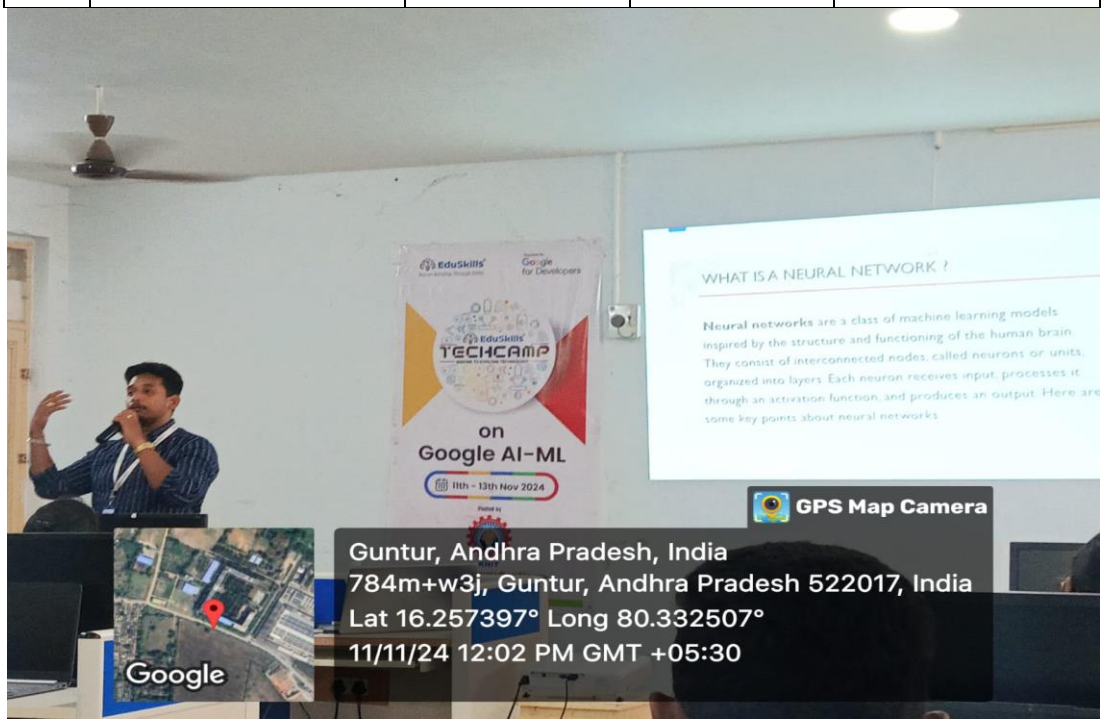

Fig. 9.5d: Three-Day Google AIML Tech Camp from 11-11-2024 to 13-11-2024 by EduSkills

Fig. 9.5e: One Week IBM Skill Build Tech Camp from 25-11-2024 to 30-11- 2024 by Edunet

Table B.9.5o: Certification Programs A.Y: 2023-2024

S. No.	Assessment/ Certification	Program Sponsored	Date	Target Group
1	Blackbucks Profiling Test	APSCHE	15-12-2023	B.Tech 4th and 3rd Years
2	Salesforce Virtual Internship Under Cohort 5	APSCHE-Smartbridge	27-12-2023	B.Tech 2nd , 3rdand 4th Years
3.	AICTE -Eduskills Virtual Internship Cohort - 7	AICTE-Eduskills	05-01-2024	B.Tech 3rd& 4th Years
4	World skills competition	APSSDC	19-03-2024	B.Tech 2nd , 3rd and 4th Years
5	APSHE quiz championship-2024	APSCHE	11-03-2024	All B.TECH Students
6	Core Programming in Python Quiz Competition	IASPIRE	15-03-2024	All B.TECH Students
7	LinkedIn Career Kickstarter Program	FacePrep	26-03-2024	B.Tech 2nd , 3rd and 4th Years
8	AICTE -Eduskills Virtual Internship	AICTE-	1-05-2024 to	B.Tech 3rd& 4th

	Cohort – 8	Eduskills	09-05-2024	Years

Fig.9.5f: Certificate of Appreciation for participation in India Skills 2024

Fig.9.5g:thokala bhanu prakash(218X1A05B0) won Gold Medal in INDIA Skills Competition on 19-05-2024

Table B.9.5p: Certification Programs A.Y: 2021-2022

S. No.	Program Title	Program Sponsored	Date	SPOC/Trainer	Target Group
1	TCS Career Edge Certificate	TCS	20.6.21 To 5.7.21	Dr. B.BinduMadhavi	B.Tech 4th Years (2018-22)
2	WNET Assessment	AICTE &WHEEBOX	20.12.21 to 25.12.21	Dr. B.BinduMadhavi	B.Tech 4th Years (2018-22)
3	QUIZ-2021 mega competition, State level Quiz competition	Bajrang Foundation, Guntur	11.11.21	Dr. B.BinduMadhavi	B.Tech 3rd& 4th Years
4	Medhavi Scholarship	AICTE	31.7.21 To 28.8.21	Dr. B.BinduMadhavai	B.Tech 3rd Years

KHIT Job Readiness Program: Global Certification

The KHIT Job Readiness Program is a comprehensive training initiative aimed at bridging the gap between academia and industry. It offers global certifications and hands-on project experience in domains such as Salesforce Development, ServiceNow Development, Full Stack Development, and AWS Cloud Architecture.

Key features include Virtual Instructor-Led Training (VILT), guided projects, assessments, mentoring, AMA sessions, certification preparation, and interview readiness modules. Students gain practical skills, professional certifications, and enhanced employability through this outcome-driven program, preparing them for successful careers in the tech industry.

The training program commenced on 21st December 2024 for 4th-year and 3rd-year B.Tech students, with 410 and 598 participants respectively.

Table B.9.5q:B. Tech 3rd Year (2022-26 Batch) Global Certification Registered students

Department	AWS	Service Now	Mongo DB	Total
CSE	110	79	11	200
IT	26	28	9	63
AIML	151	4	44	199
AIDS	66	0	0	66
DS	63	6	1	70
TOTAL	416	117	65	598

Table B.9.5r:B. Tech 4th Year (2021-25 Batch) Registered students for Global Certification

Department	AWS	SALESFORCE	Mongo DB	Total
AIML	52	54	20	126
IT	24	43	0	67
DS	0	8	56	64
ECE	121	13	67	201
TOTAL	197	130	131	458

Fig. 9.5h:Global Certification Training by Smart Bridge started on 21/12/2024

Fig. 9.5i:Global certification - Trainers from Smart Bridge

4. **PAN India Qualifying Tests Training Programmes:**

- Tailored training sessions based on the requirements of specific companies visiting the campus for recruitment.
- Include an in-depth study of company profiles, interview patterns, and role expectations.
- Offer role-specific training for areas like software development, data analytics, and project management.

Table B.9.5s:Training Programs A.Y: 2024-2025

S. No.	Training Program	Program Offered	Purpose	Date	SPOC (In-charge)	Target Group
1	"Daily CodeQuest"	CODETANTRA	PAN India Test Preparation	17-07-2024 to 15-08-2024	CGTP CELL, KHIT	All 2nd, 3rd and 4th Year B.Tech Students
2	"AlgoMaster"	Programming Hub, KHIT	Technical training	19-08-2024 to 14-09-2024	CGTP CELL, KHIT	All 2nd, 3rd and 4th Year B.Tech Students
3	CTS Test series	SIX phrase	Company Specific	12-09-2024 to 22-09-2024	CGTP CELL, KHIT	IV B.Tech
4	How to crack Infosys Online Test 2025	ICARE Academy, Hyderabad	Company Specific	16-01-2025 to 19-01-2025	CGTP CELL, KHIT	IV B.Tech(Female Students)
5	Ace Your INFOSYS Drive	Instacks, Hyderabad	Company Specific	17-01-2025 to 19-01-2025	CGTP CELL, KHIT	IV B.Tech(Female Students)
6	Infosys Specific – Pseudo Codes Section	ICARE Academy, Hyderabad	Company Specific	18-01-2025	CGTP CELL, KHIT	IV B.Tech(Female Students)
7	Infosys Specific –	ICARE Academy,	Company Specific	19-01-2025	CGTP CELL,	IV B.Tech(Fe

	English Writing Section	Hyderabad			KHIT	male Students)
8	Infosys Verbal Ability Training	ICARE Academy, Hyderabad	Company Specific	07-02-2024 to 09-02-2024	CGTP CELL, KHIT	IV B.Tech(Female Students)

Table B.9.5t:Training Programs A.Y: 2023-2024

S. No.	Training Program	Program Offered	Purpose	Date	SPOC(In-charge)	Target Group
1	NQT-2024	SIXPHRASE	PAN INDIA test preparation Phase-1	19-06-2023 to 07-07-2023	Dr.B. Ramesh	B.Tech 4th Years (2020-24)
2	TCS Ninja Training - Internal	CGTP Cell, KHIT	Company Specific	25-03-2024 to 30-03-24	Dr. B.BinduMadhavi	B.Tech 4th Years (2020-24)
3	SIT-2024(Special Intensive Training Program)	CGTP Cell, KHIT	PAN INDIA test preparation Phase-2	05-06-2023 to 07-07-2023	Dr.B. Ramesh	B.Tech 4th Years (2020-24)
4	Tech Mahindra Bootcamp	CGTP Cell, KHIT	Company Specific	18-01-2024 to 27-01-2024	Dr. B.BinduMadhavi	B.Tech 4th Years (2020-24)
5	Accenture HackdivaBootcamp	CGTP Cell, KHIT	Company Specific	05-02-2024 to 10-02-2024	Dr. B.BinduMadhavi	B.Tech 4th Years (2020-24)
6	Deloitte Bootcamp	CGTP Cell, KHIT	Company Specific	12-02-2024 to 17-02-2024	Dr. B.BinduMadhavi	B.Tech 4th Years (2020-24)

Table B.9.5u:Training Programs A.Y: 2022-2023

S. No.	Training Program	Program Offered	Purpose	Date	SPOC (In-charge)	Target Group
1	NQT-2023	FACEPREP	PAN INDIA test preparation Phase-1	13-06-2022 To 8-10-2022	CGT&P Cell, KHIT	B.Tech 4thYears (2019-23)
2	TCS Ninja Training - Internal	CGTP CELL	Company Specific	4-7-2022 To 8-10-2022	Dr.B.Srikath	B.Tech 4th Years (2019-23)
3	ICC – 2023 Training	CGTP CELL	PAN INDIA test preparation Phase-2	31.10.22 To 31-12-2022	Dr. B.Srikanth	B.Tech 4th Years (2019-22

Table B.9.5v:Training Programs A.Y: 2021-2022

S. No.	Training Program	Program Offered	Purpose	Date	SPOC (In charge)	Target Group
1	TCS Ninja Training - Internal	CGTP CELL	Company Specific	5.7.21 To 11.10.21	Dr. B. BinduMadhavi	B.Tech 4th Years (2018-22)
2	WIPRO NLTH – Internal Training	CGTP CELL	Company Specific	14.10.21 To 29.10.21	Dr. B. BinduMadhavi	B.Tech 4th Years (2019-22)
3	ICC – 2022 Training	CGTP CELL	PAN INDIA test preparation Phase-2	30.10.21 To 3.1.22	Dr. B. BinduMadhavi	B.Tech 4th Years (2019-22

4	ELITE - 2023 Training	CGTP CELL	INFYTQ Training	2.12.21 To 3.1.22 To 11.1.22	Dr. B. BinduMadhavi	B.Tech 3rd Years (2020-23)
5	LIC- 2024	CGTP CELL	Internal Training	28.1.22 To 18.2.22	Dr P Lakshmi Kanth	B.Tech 3rd Years (2020-23)

5. Mock Interviews: Enhancing Placement Readiness

- **Real-Time Interview Experience:** Mock interviews conducted by alumni and industry experts help students experience realistic corporate interview scenarios, enhancing their confidence and articulation skills.
- **Personalized Feedback:** Detailed insights and constructive feedback from seasoned professionals enable students to identify and work on their strengths and areas for improvement.
- **Industry-Relevant Insights:** Alumni and industry experts share practical tips, current trends, and expectations, helping students better align their preparation with market demands

Table B.9.5w:Mock Interview Sessions AY 2024-25

S. No.	Company	Resource Person	Date	Students Attended
1	INFOSYS	Dr. B.BinduMadhavi& Mr.Prabhu, KHIT	20-01-2025 to 23-01-2025	12

Table B.9.5x:Mock Interview Sessions AY 2023-24

S. No.	Company	Resource Person	Date	Students Attended
1.	Accenture	Mr. Dasari Sai	20-09-2023	21
2	Accenture	Mr.	23-09-2023	20
3	TCS NINJA	Mr. N. Vasishta, Data Engineer,Hexaware Private Ltd	07-04-2024	32
4	TCS NINJA	Dr. B.BinduMadhavi& Dr. B. Srikanth, KHIT	8-04-2024 to 12-04-2024	32
4	TCS NINJA	Mr. P.UdayTeja, Software Engineer, HCL	10-04-2024	14
5	Tech Mahindra &Deloitte	Mr. Dasari Sai PremCharan, Data Engineer, Hexaware	18-03-2024	15

		Private Ltd		
6	Tech Mahindra &Deloitte	Dr. B.BinduMadhavi& Dr. B. Srikanth, KHIT	19-03-2024 to 23-03-2024	15

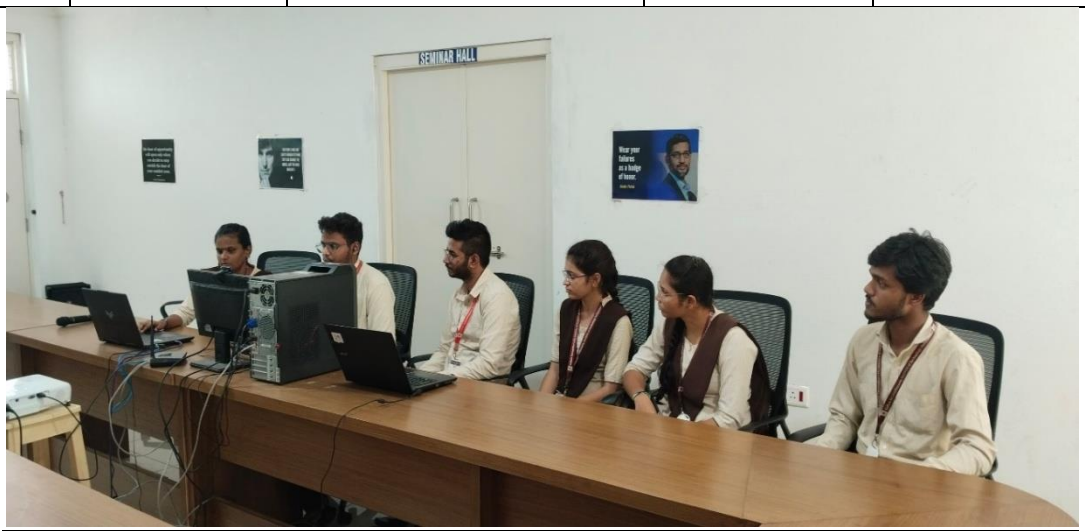

Fig. 9.5j: Attending Mock Interviews with Industry Experts and Alumni KHIT for TCS Interviews from 07-04-2024 to 10-04-2024

Table B.9.5y: Mock Interview Sessions A.Y: 2022-23

S. No.	Company	Resource Person	Date	Students Attended
1.	HEXAWARE	Mr. Dasari Sai PremCharan Data Engineer, Hexaware Private Ltd	19-09-2022	17
2	HEXAWARE	Mr. NamalaHarshavardhan, HTC Global Services Pvt Ltd	19-09-2022	13
3	HEXAWARE	Mr. N. Vasishta, Data Engineer,Hexaware Private Ltd	19-09-2022	10
4	OSI	Dr. B.Srikanth and Dr. Ramesh, CGTP Cell, KHIT	20-09-2022 to 23-09-2022	40

Table B.9.5z:Mock Interview Sessions A.Y: 2021-2022

S. No.	Company	Resource Person	Date	Students Attended
1	TCS NINJA Interviews	Mr.K. Siva Kalyan,Accion Labs, Bangalore	01-11-2021	23
2	Mock	CGTP CELL, KHIT	02-11-2021	72

	Interviews for TCS NINJA - Internal		to 07-11-2021	
3	Mock Interviews for TCS NINJA - External	Mr. Harish Reddy Nandipati, Microsoft Consulting Services, Bangaluru	08-11-2021	21
4	HCL	Mr. SrikanthSetty, Principal Business Analyst, TTEC Digital Analytics India	22.10.2021	16
5	HCL	Mr. Krishna Deekshithulu, Senior Software Engineer, HCL	23.10.2021	23
6	Mock Interviews for WIPRO NLTH - Internal	CGTP CELL, KHIT	24.10.2021	123
7	Mock Interviews for WIPRONLTH - External	Mr. Chandra SekharMerugumala, Solution Architect-Hitachi	27.10.2021	23

6. **Networking and Alumni Support**
   - Build and maintain a strong alumni network to leverage their industry experience and guidance.
   - Organize guest lectures and workshops featuring successful alumni.
   - Facilitate alumni-led resume-building sessions, mock interviews, and job referrals.
7. **Student Clubs: Fostering Innovation and Professional Growth**
   - **Professional Skills Corner**: Focused on developing essential workplace skills such as resume writing, group discussions, email etiquette, and interview preparation to build a strong social and professional profile.

Table B.9.5aa**:** Professional Skills Corner – Monthly Activity Schedule

Month	Activities Planned
June	1. **Resume Writing Workshop** – Tips to craft ATS-friendly resumes. 2. **Self-Introduction & Elevator Pitch Training.** 3. **Mock Interviews with Seniors & Alumni.**
July	1. **Email Etiquette & Professional Writing Session.** 2. **Public Speaking & Presentation Skills Workshop.**

	3. **Debate & Group Discussion Practice.**
August	1. **LinkedIn Profile Optimization & Networking Tips.** 2. **Telephone & Cubicle Etiquette Training.** 3. **One-on-One Resume Reviews with Industry Experts.**
Septembe r	1. **Group Discussion Techniques & Elimination Strategies.** 2. **Professional Body Language & First Impressions.** 3. **Live HR Interview Simulations.**
October	1. **Corporate Email & Report Writing Workshop.** 2. **Teamwork & Leadership Development Activities.** 3. **Industry Expert Talk on Workplace Communication.**
November	1. **Time Management & Productivity Hacks.** 2. **Personal Branding – Creating a Strong Digital Presence.** 3. **Alumni Q&A Session: Career Growth & Industry Trends.**
December	1. **Stress Management & Workplace Ethics.** 2. **Advanced Group Discussion Scenarios.** 3. **Job Search & Networking Strategies.**
January	1. **Professional Writing: Cover Letter & Follow-up Emails.** 2. **Mock Campus Placement Drive.** 3. **Improving Communication in Virtual Meetings.**
February	1. **Personal Finance & Salary Negotiation Techniques.** 2. **Effective Conflict Resolution & Workplace Diplomacy.** 3. **One-Minute Speech Challenge – Building Spontaneity.**
March	1. **Cross-Cultural Communication & Diversity Awareness.** 2. **Live Role-Playing of Workplace Scenarios.** 3. **Mastering Small Talk & Icebreakers in Professional Settings.**
April	1. **Interview Q&A – Answering Tricky Questions.** 2. **Planning Next Year's Calendar & New Initiatives.** 3. **Industry Panel Discussion – What Recruiters Look For.**

- **Programming Hub**: An inclusive platform that enhances coding skills, fosters collaboration on projects, and promotes learning about emerging technologies through workshops, coding challenges, and peer mentoring.

Table 9.5ab:Programming Hub - Monthly Activities Schedule

Month	Activities Planned
June	1. **Hackerrank Monthly Challenge** (Problem-solving, SQL, Python, C++, Java) 2. **Portfolio Building Session** – Student Ambassadors assist students in creating LinkedIn, GitHub, and personal portfolio websites. 3. **Alumni Coding Session** – KHIT Alumni conduct an offline session on real-world coding challenges.

July	1. **Leetcode Weekly Challenges** (Dynamic Programming, Graphs, Trees, etc.) 2. **Open Source Contribution** – Introduction to GitHub and open-source projects. 3. **Student Ambassador Training Begins** (Online classes start for a three-month period).
August	1. **GeekforGeeks DSA Month** – Daily problem-solving challenges in Arrays, Linked Lists, and Trees. 2. **Industry Expert Session** – Career opportunities in software development. 3. **Live Mock Interviews** with KHIT Alumni.
September	1. **Python & AI Bootcamp** (Basics to Advanced). 2. **Hackathon Prep Series** – Solving past hackathon problem statements. 3. **Tech Podcast with Experts** – Discussing trends in AI, ML, and Software Development.
October	1. **Competitions: KHIT CODESPRINT** 2. **Web Development Month** – Building HTML, CSS, and JavaScript projects. 3. **Alumni Meet & Code Jam** – KHIT Alumni mentor students on live coding projects.
November	1. **Portfolio Review & GitHub Project Submission.** 2. **Android App Development Workshop.** 3. **Student Ambassador Online Training – Phase 2 Starts.**
October	1. **Variances of Coding in Various Technologies** (ML, Cybersecurity, Web, App Dev). 2. **Offline Coding Literacy Classes** – For Non-CSE students. 3. **Open Source and GitHub Session.**
November	1. **TechHack – 24-hour coding competition.** 2. **Career Awareness – Opportunities after B.Tech.** 3. **AI/ML Workshop.**
December	1. **KHIT SIH Hackathon** (Inter-college competition). 2. **TechGyan – Weekly tech knowledge sessions.** 3. **Recording and uploading all online classes to the KHIT Careers YouTube Channel.**
January	1. **Crack the Code (Competitive Programming Session).** 2. **Cyber Security Awareness and Ethical Hacking Workshop.** 3. **KHIT Coders Meet – Connecting Student Ambassadors with Industry Professionals.**
February	1. POWER BI and GOOGLE ANDROID**Bootcamp.** 2. **Resume & LinkedIn Profile Optimization Workshop.** 3. **Mini Project Showcase by Students.**

March	1. KHIT CODESPRINT 2.o 2. Releasing of KHIT Tech Magazine 3. **Review of the Year & Planning for Next Year.**

Table B.9.5ac: Programming Hub - Monthly Activity Schedule (July to December 2024)

Month	Date	Activity	Guest Speaker/Mentor	Students Attended
July 2024	17 July	Career Opportunities After B.Tech – A session with industry experts and KHIT alumni.	Mr.Veeramalla Ravi Kumar, Software Engineer,TechMahindra	103
	18 July	Open Source Software & GitHub – Training on GitHub contributions and real-world projects.	Mr. KVVS Manohar, III AI&DS	76
	19 July	Variances of Coding in Various Technologies – AI, Web, Cybersecurity.	Mr. KVVS Manohar, III AI&DS	45
	21 July	Introduction to Python Programming – Hands-on session covering basics to intermediate level.	Mr. Y. Manvith Sai, III AI&ML	36
	23 July	Crack the Code & Android App Development – Debugging and building mobile applications.	Mr. Y. Manvith Sai, III AI&ML	44
	24 July	TechnoGyan – Knowledge-sharing session on trending technologies.	Mr. Varun K, III AI&DS	76

August 2024	10 Aug	Competitive Programming Kickoff – Solving Leetcode and GFG problems (bi-weekly).	Mr. KVVS Manohar, III AI&DS	56
	17 Aug	Portfolio Building Workshop – Creating GitHub repositories, personal websites, and LinkedIn profiles.	Mr. Md. Ali, IV CSE	104
	24 Aug	TechHack – Coding sprint to solve real-world challenges.	Mr. Varun K, III AI&DS	74
September 2024	07 Sep	Python & AI Bootcamp – 1-week intensive training on Python and AI applications.	Mr. M. GokulKalyan, II DS	85
	14 Sep	KHIT Coder's Meet – Offline networking event with student ambassadors and faculty.	Programming HUB	89
	21 Sep	KHITCODESPRINT (Coding Marathon) – 24-hour coding marathon for students.	CGTP, KHIT	300
	28 Sep	GitHub & Open Source Contribution Session – Learn how to participate in open-source projects.	Mr. Y. Manvith Sai, III AIML & Mr. Md. Azar, III AIML	76
October 2024	05 Oct	Cybersecurity Awareness Session	Mr. B. Srikanth, IV CSE	43

	12 Oct	DSA Deep Dive – Advanced Data Structures & Algorithms Workshop.	Mr. Y. Manvith Sai, III AIML	
	26 Oct	Hands-on Web Development Project – Building a full-stack application.	Miss. Dhana Lakshmi. N, III CSE	45
November 2024	02 Nov	Resume & LinkedIn Profile Optimization Workshop – Crafting tech resumes and improving LinkedIn visibility.	Mr. Y. Manvith Sai, III AIML	100
	09 Nov	Crack the Code – Debugging & Problem-Solving Contest.	Programming Hub	84
	23 Nov	Mock Technical Interviews – Conducted by KHIT alumni and faculty mentors.	Alumni, KHIT	65
December 2024	07 Dec	Hackathon Prep Series – Solving past hackathon problem statements.	Mr. KVVS Manohar, III AIDS	20 Teams
	21 Dec	Review for current semester& Planning Session – Setting goals for the next semester	Programming HUB	45

Fig. 9.5k: GitHub & Open Source Contribution Session – Learn how to participate in open-source projects by **Mr.Y. Manvith Sai, III AI&ML & Md. Azar, III AI&ML on 12-09-2024**

KHIT CodeSprint-2024

The KHIT CodeSprint-2024, a Biannual intra-college coding competition aimed at enhancing the coding skills of students, was successfully conducted on the 24th and 25th of September 2024. Organized in association with the Programming Hub and Novelty Vision clubs, the event provided a competitive platform for budding coders to showcase their problem-solving abilities and technical prowess.

The competition featured three intense rounds:

1. **CodeIgnite**: The initial screening round challenged participants with a series of coding problems to test their logical thinking.
2. **CodeClash**: This elimination round brought tougher challenges where only the best teams advanced to the final showdown.
3. **Final Frontiers**: The grand finale where the top coders faced off to prove their dominance.

The winners of KHIT CodeSprint-2024 are as follows:

- **1st Prize 🏆 (₹10,000)**: *Team AlphaRMD* led by KVVS Manohar
- **2nd Prize 🏆 (₹8,000)**: *Team Code Sprint* led by Sk. Muhammad Huzefa
- **3rd Prize 🏆 (₹6,000)**: *Team Red Coders* led by B. Eswar
- **Top Freshman Coder 🎖 (₹2,000)**: *Team Ambitious* led by M. GokulKalyan

Fig. 9.5l: Final Frontiers round in KHIT CODESPRINT1.O -2024

Fig. 9.5m: Winners of KHIT CODESPRNT 1.O – 2024

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గెలుపొందిన వారితో కళాశాలలోని విభాగాల అధిపతులు

ఏటి అగ్రహారం, న్యూస్‌టుడే: గుంటూరు శివారులోని కళ్లం హరనాథ రెడ్డి ఇనిస్టిట్యూట్ ఆఫ్ టెక్నాలజీలో కోడ్ స్ప్రింట్-2024 పేరున రెండు రోజులు కోడింగ్ చాలెంజ్ పోటీలు బుధవారం నిర్వహించారు. ఈ పోటీల్లో 400 మంది బీటెక్, ఎంసీఏ విద్యార్థులు పాల్గొన్నారు. కేవీవీఎస్ మనోహర్, హుజేఫా, బి.ఈశ్వర్ బృందాలు వరుస బహుమతులు సాధించారని కళాశాల డైరెక్టర్ ఎం.ఉమాశంకరరెడ్డి తెలిపారు. కళాశాల ప్రిన్సిపల్ డాక్టర్ బి.ఎస్.బి.రెడ్డి మాట్లాడుతూ జిల్లాలోని పలు ఇంజినీరింగ్ కళాశాలలను కూడా ఆహ్వానించి పోటీలు నిర్వహించామని తెలిపారు. ప్రముఖ కోడింగ్ ప్లాట్‌ఫాం కోడ్ తంత్ర వారు వీటిని నిర్వహించారని ఇనిస్టిట్యూషన్ ఇన్నోవేషన్ సెల్ అధ్యక్షుడు డాక్టర్ శివరామకృష్ణ తెలిపారు. డాక్టర్ పి.ఎల్.మాధవరావు, డాక్టర్ బి.శ్రీకాంత్, డాక్టర్ బి.బిందు మాధవి, డాక్టర్ కె.హరికృష్ణలు కన్వీనర్లుగా వ్యవహరించారు.

Date : 26/09/2024 EditionName : ANDHRA PRADESH(AMARAVATI GUNTUR) PageNo :

Fig. 9.5n: Winners of KHIT CODESPRNT 1.O – 2024

- **Innovation Club**: Creative spaces where students collaborate to solve real-world problems, develop prototypes, and participate in hackathons, fostering innovation and practical problem-solving skills.

Table B.9.5ad: Innovation Club Monthly Activity Plan

Month	Activity	Key Highlights
June	Orientation & Ideation Workshop	Introduction to the club, Design Thinking, Brainstorming sessions, Team formation
July	Rapid Prototyping & Problem-Solving	Hands-on with prototyping tools (Arduino, 3D printing, app development), Mini-hackathon
August	Industry Connect & Expert Talk	Guest lecture from an entrepreneur/start-up founder, Case study on innovation trends
September	Hackathon Preparation & Internal Competition	Training on hackathon problem-solving, Internal coding/maker challenge, Team presentations
October	Smart Solutions Development	Workshop on IoT, AI, Blockchain applications, Hands-on project on a social issue
November	Prototype Testing & Refinement	Testing phase for projects, Peer reviews, Pitching session with mentors

December	Innovation Fest & Exhibition	Project demonstrations, Open house for faculty & industry experts, Awards for best projects
January	Patent Awareness & Research	Workshop on patent filing & intellectual property, Guidance on research documentation
February	Funding & Start-up Incubation	Guidance on funding opportunities, Introduction to start-up incubation centers
March	Final Hackathon & Project Submission	Club-level hackathon, Submission of projects for national/international competitions
April	Annual Review & Future Roadmap	Reflection on the year's achievements, Planning for the next academic year

Student Ambassador System for CGTP Cell, KHIT

The Student Ambassador System at CGTP Cell, KHIT, aims to bridge the gap between the student community and the placement cell. Ambassadors act as representatives, promoting placement-related activities, skill development programs, and industry expert talks within their respective departments.

Key Responsibilities:

- Act as a liaison between CGTP Cell and students, ensuring effective communication.
- Encourage active participation in workshops, hackathons, mock interviews, and soft skills sessions.
- Gather feedback from students and provide insights to improve placement strategies.

This initiative fosters leadership, communication skills, and a collaborative environment, preparing students for future professional challenges

Impact Analysis of Training 2022-2023:

As the first part of the Campus Placement Process, a number of companies conduct written tests in order to establish the knowledge level of candidates. These tests are used as a tool by companies to eliminate candidates that do not match the requirements of the company. As we have seen across numerous campuses in the country, the number of aspirants is generally far greater than the number of openings in various companies and this leads to companies using these tests as a method of eliminating students. Generally, companies conduct three kinds of tests: Aptitude and Verbal Ability Tests, Technical Tests and Psychometric tests. A company can conduct any combination of these tests including the option of conducting all these tests as a part of its selection criteria.

Aptitude and Verbal Ability Tests are designed to test a candidate on a specific set of skills. Most companies try to assess a candidate on analytical and decision-making skills. Vocabulary, reading & language skills are checked in the written test to measure your effectiveness in communication. Basic mathematical skills, with problems that focus on applying simple concepts in relatively complex situations, are tested in order to judge your analytical skills. The main sections covered in Aptitude Tests are: Logical Reasoning, Quantitative Aptitude and Gaming Aptitude. Core companies conduct technical tests as a part of their selection procedure. These tests include technical questions on particular areas of the student's specialization such as computers, electronics, mechanical and civil. These tests measure your technical skills and subject knowledge. Individuals with a firm grounding in the fundamentals of their subjects perform well on these tests. This section includes: Multiple Choice Questions and Coding Questions (In Computer Engineering Domain).

In recent times, an additional test type that has been introduced by some companies, particularly IT companies, is the Psychometric Test. This test type works as a filter & helps the human resource department of companies to select the most suitable candidates for their company. When the student answers the questions honestly, the company is able to build his/her psychological profile and establish the work and profile that suits him/her best.

In KHIT, training for Aptitude, Verbal Ability, Technical and Psychometric tests is given through the training programs NQT and ICC.

Table B.9.5ae: NQT – 2022 No. of Registered, Qualified, and Selected Students

NQT – 2022 (2018-2022 Batch)																	
REGISTERED						**SHORT LISTED**						**SELECTED**					
CSE	ECE	EEE	ME	CE	Name of the Company	Total	CSE	ECE	EEE	ME	CE	Total	CSE	ECE	EEE	ME	CE
116	164	48	116	100	TCS	74	27	28	9	7	3	41	17	15	5	2	2
					Wipro Phase - I	79	32	33	3	8	3	53	26	19	3	5	0
					Revature	22	7	9	6	0	0	15	5	8	2	0	0

					Hexaware	15	9	4	2	0	0	9	5	3	1	0	0
					Virtusa	17	5	9	3	0	0	4	1	2	1	0	0
					KPIT	9	0	9	0	0	0	3	0	3	0	0	0
					Atos Syntel	17	17	0	0	0	0	13	13	0	0	0	0
					Mindtree	23	9	11	3	0	0	10	6	3	1	0	0
					Others	8	3	3	1	0	1	8	3	3	1	0	1
TOTAL -**544**					Total	**264**	**109**	**106**	**27**	**15**	**7**	**156**	**76**	**56**	**14**	**7**	**3**

Table B.9.5af: ICC – 2022 No. of Registered, Qualified, and Selected Students

REGISTERED						**SHORT LISTED**						**SELECTED**					
CSE	ECE	EEE	ME	CE	Name of the Company	Total	CSE	ECE	EEE	ME	CE	Total	CSE	ECE	EEE	ME	CE
27	44	25	37	37	Infosys	101	23	39	6	16	17	78	16	32	6	9	15
					CapGemini	112	27	40	11	25	9	60	17	22	5	11	5
					HCL	74	16	34	24	0	0	35	12	16	7	0	0
					Wipro Phase-II	132	24	53	15	19	21	76	12	33	4	15	12
					Zensor	30	12	18	0	0	0	12	7	5	0	0	0

					Sutherlands	42	2	14	1	21	4	51	8	16	2	23	2
					Qspider	12	0	7	0	5	0	12	0	7	0	5	0
					Tech Mahindra	15	6	8	1	0	0	3	2	1	0	0	0
					Sopra Steria	10	3	7	0	0	0	3	2	1	0	0	0
					Deloitte	9	4	4	1	0	0	2	1	1	0	0	0
					Others	54	15	21	3	10	5	15	3	-	-	11	1
TOTAL -**170**					TOTAL	**537**	**117**	**224**	**59**	**86**	**51**	**347**	**80**	**134**	**24**	**74**	**35**

Impact Analysis of Training 2023-2024:

The CGTP Cell at KHIT has played a pivotal role in enhancing student employability through focused training programs, including NQT-2023 preparation sessions. These programs covered aptitude, verbal ability, technical, and psychometric tests, equipping students with essential skills to excel in campus placements. The impact of this training is evident in the remarkable recruitment outcomes, with a total of 675 students shortlisted and 475 selections made across leading companies such as Concentrix, TAP, XL Teck, Sutherland, Suryatech, and many others. The consistent support and guidance from the CGTP Cell have enabled students from diverse departments, including CSE, ECE, EEE, ME, CE, and IT, to secure promising career opportunities. This comprehensive training approach not only boosted students' technical capabilities but also strengthened their confidence, problem-solving skills, and adaptability to industry requirements, resulting in an impressive placement record.

Table B.9.5ag: NQT – 2023 No. of Registered, Qualified, and Selected Students

NQT-2023																			
REGISTERED								**SHORTLISTED**							**SELECTED**						
CSE	ECE	EEE	ME	CE	IT	Name of the Company	Total	CSE	ECE	EEE	ME	CE	IT	Total	CSE	ECE	EEE	ME	CE	IT

183	190	45	59	55	60	CONCENTRIX	203	69	75	26	8	5	20	173	65	67	20	3	3	15
						TAP	38	15	7	6	3	2	5	12	5	2	2	0	1	2
						XL TECK	55	19	20	4	2	0	10	35	14	13	2	0	0	6
						SUTHERLAND	58	13	25	2	8	2	8	33	8	19	0	1	1	4
						SURYATECH	69	2	31	20	16	0	0	58	0	28	16	14	0	0
						EFFTRONICS	7	5	2	0	0	0	0	3	3	0	0	0	0	0
						L CUBE	18	6	6	2	0	1	3	7	3	3	0	0	0	1
						BOMMIDALA	21	0	6	7	7	1	0	15	0	4	3	5	3	0
						MURVO	60	7	18	20	12	3	0	31	0	15	10	6	0	0
						MIEL	67	0	3	16	22	23	3	41	0	0	10	16	15	0
						THERMOFISHER	12	0	12	0	0	0	0	1	0	1	0	0	0	0
						Others	76	23	16	6	8	12	11	66	31	14	3	5	8	5
TOTAL -**592**						Total	**684**	**159**	**221**	**109**	**86**	**49**	**60**	**475**	**129**	**166**	**66**	**50**	**31**	**33**

Table B.9.5ah: Impact Analysis - Placements

S.No.	Academic Year	No. of Placement offers	Maximum Salary (Rs.)	Mean Salary (Rs.)
1	2023 - 2024	489	7.2 LPA	3.10 LPA
2	2022 - 2023	475	8 LPA	3.03 LPA
3	2021 - 2022	507	7.2LPA	2.5 LPA
4	2020 - 2021	435	4.70LPA	1.40 LPA
5	2019 - 2020	446	5.00LPA	1.10 LPA

9.6 Entrepreneurship Cell (5)

The primary objective of the Entrepreneurship Cell is to nurture students in various innovation and entrepreneurship-related activities such as ideation, problem-solving, design thinking, IPR at pre incubating/incubation stage, etc., so that the innovation and entrepreneurship system gets established and stabilized in the institution. We're well connected with other agencies involved in entrepreneurship and innovation like the Institution's Innovation Council (IIC). It assists every aspiring entrepreneur in every step and promotes and revitalizes the entrepreneurial culture in the institution.
The Cell's vision is to create an entrepreneurial ecosystem that provides a platform for individuals with creative minds and potential ideas for substantial business opportunities and encourages them to consider entrepreneurship and start-up as a career option.

FUNCTIONSOFENTREPRENEURSHIPDEVELOPMENT CELL(EDC)

- To conduct various innovation and entrepreneurship-related activities prescribed by MIC in time-bound fashion
- To create Pedagogy and Learning Interventions for Entrepreneurship Development which includes interdisciplinary learning using mentors, labs, case studies, games, etc. in place of traditional lecture-based delivery
- To create awareness amongst students about National Innovation and Start-up Policy, Angel Investing, Business Model Canvas etc.
- To focus on Thrust Areas in various disciplines
- To identify and reward innovations and share success stories
- To organize periodic workshops/seminars/interactions with successful entrepreneurs, investors and professionals and create a mentor pool for student innovators
- To develop a Network with peers and national entrepreneurship development organizations like NI-MSME, Startup India, Invest India, MEIT etc.,

- To create an Institution's Innovation portal to highlight innovative projects carried out by institution's faculty and students
- To develop start-up/entrepreneurship-supporting mechanisms in HEIs
- To encourage students to intern with the startups incubated in any recognized incubator while studying.
- To help in linking the startups to other seed-fund provider's/ angel funds/ venture funds or itself may set up seed-fund once the incubation activities mature
- To conduct an induction program about the importance of Innovation and Entrepreneurship so that freshly inducted students are aware of the entrepreneurial agenda of the institute and available support systems.
- To promote entrepreneurial culture among women students and faculty members to set-up innovative startup ventures

Table B.9.6a: EntrepreneurshipDevelopment Committee

S. No.	Name	Designation	Position
1.	Dr.B. S.B. Reddy	Principal	Chairman
2.	Dr. K. Sivarama Prasad	President, IIC	Convener
3.	Dr.P.L.Madhava Rao	Dean – CGTP Cell	Member
4.	Dr.J. Veera Kumar	Associate Professor, S&H	Member
5.	Mr. P. Syam Kumar	Assistant Professor,MBA	Member

Programs Conducted:

- Lectures by industry people, technocrats
- Guest lectures by business leaders
- Workshops
- Seminars by Bank officials, Funding agencies
- Industrial visits & Collaborations

Table B.9.6b: Entrepreneurship Development Activities

CAY: 2024-25

S. No.	Program	Date	Resource Person
1	Session of MIC Programmes & Schemes	23-10-2024	Dr. AbhayJere, VCM, AICTE
2	Awareness Session on "Entrepreneurship and Innovation asCareer Opportunity"	29-09-2024	Mr. Uma Desu, CheifAIO , GenAI Pioneer.

3	KHIT Code Sprint 1.0 2024 Internal Coding competition	24-09-2024 25-09-2024	Dr. M Umasankar Reddy Director KHIT
4	SIH 2024 – INTERNAL HACKATHON	06-09-2024	Sri. NallamilliVenkata Reddy M.S(Robotics), M.B.A, CEO, Techybot andVihangaElectrix,
5	Exposure and field visit for problem identification	18-01-2025	PI Data Center Amaravathi

CAYm1: 2023-24

S. No.	Program	Date	Resource Person
1	One Day Workshop on Prototype/Process Design and Development	04-04-2024	Mr. MeduriChekravarthi, Technical Lead, Dharani InfoTech
2	Name:- Mentoring Event: Demo Day/Exhibition/Poster Presentation of Innovations/Prototypes & linkage withInnovation Ambassadors/Experts for Mentorship Support	22-09-2023	Students from Various colleges were participated
3	Expert talk on "Process of Innovation Development & Technology Readiness Level (TRL)" & "Commercialization of Lab Technologies & Tech-Transfer"	30-06-2024	Dr. ChAruna Advanced innovation ambassador KITS
4	Awareness session on SIH-2024	27-08-2024	Dr. AbhayJere, vice chairman AICTE & Chief Innovation Offcier (CIO) MoE Govt. of India
5	Making the students as Entrepreneur	2-03-2024	Students are encouraged to establish and run a stall
6	Session on Achieving Problem-Solution Fit & Product-Market Fit	17-02-2024	Dr. B S B Reddy, Principal KHIT

7	National Education Day	11-11-2023	Dr. M Uma Sankara Reddy Director KHIT
8	Inter/Intra Institutional Idea Competition/Challenge/Hackathon and Reward Best Ideas.	22-09-2023	Dr. M Uma Sankara Reddy Director KHIT
9	Orientation and Mentoring session by Mentor Institute	06-08-2024	Dr. ChAruna& Mr. K Chandra Reddy Advanced innovation ambassadors KITS
12	Exposure and field visit for problem identification	23-08-2024& 24-08-2024	The various innovations doneby the students at mentor institute: Dr. ChAruna& Mr. K Chandra Reddy Advanced innovation ambassadors KITS
13	National Science Day	28-02-2024	Dr. S Suryanarayana HOD ECE KHIT
14	International Women's Day	5-03-2024	Dr. M Uma Sankara Reddy Director KHIT
15	Orientation cum Refreshers' Session on Institution's Innovation Council Objectives, Structure, Operation for IIC Institutions	5-08-2024	Ms. Selvarani, MIC &DipanSahu, MoE's Innovation Cell
16	Guiding Framework for Creating and Engaging Trained Faculty and Student IIC Members, Innovation Ambassadors (IA) in IIC Institutions, and Rewarding Mechanisms for IAs	29-07-2024	Mr.Depankumarsahu , Assistant Innovative Director, MoE's Innovation cell
17	Strengthening IIC Linkages with ATLs and SICs in Schools and the Framework for Providing	31-07-2024	Jai Anusandhaan (MoE Innovation Cell)

	Mentorship and Guidance		
18	Building the Pipeline of Quality Innovations and Startups in HEIs with Ecosystem Enablers by Creating and Managing YUKTI Innovation and IPR Repository (YIIR)	02-08-2024	Mr.Depankumarsahu , Assistant Innovative Director, MoE's Innovation cell
19	3K Walk with First Time Voters	27-04-2024.	Mr.Mukesh Kumar Meena AP CEO
20	Developing online repository of business plan/prototype by Mentoring sessionby Mentor Institute	29-07-2024	Dr. ChAruna& Mr.K Chandra Reddy Advanced innovation ambassadors KITS
21	Viksit Bharat@2047 Utsav in Campus	11-12-2023	The Inaugural Address by Hon'ble Prime Minister of India
22	International Yoga Day	21-06-2024	Mr.Sai Manohar Yoga Trainer
23	Workshop on "Crafting Solutions with Soft Computing & Deep Learning Techniques"	18-03-2024 to 22-03-2024	Mrs. J. Durga Mr. E. Ranjit, SreevenTechnology, Tirupati

CAY m2: 2022-23

S. No	Program	Date	Resource Person
1	Workshop on Prototype Design and development	11-03-2023	Dr. J. BrahmaiahNaik IIC President KHIT
2	Session on BMC Business Model Canvas	18-03-2023	Dr. P. Ratna Babu Dept. of CSE KHIT
3	Field / Exposure visit to incubation uit/parent facilitation center/technology transfer center	08-04-2023	Dr. P Hari Krishna Assoc. Prof. EEE KHIT

4	Session on How to plan for start-up and legal and ethical steps	15-04-2023	Dr. Ch. Syamala Devi Assoc. Prof. Department of MBA KHIT
5	Workshop on IPR IP management for Start-up	22-4-2023	Dr. SeelamKoteswara Rao Department of ECE KHIT
6	Organize an Inter/Intra Institutional Business Plan Competition and reward best innovations-Manage Trough YUKTI-NIR	13-05-2023	Dr. SeelamKoteswara Rao Department of ECE KHIT
7	Mentoring Event Demo Daay/Exhibition/Poster Presentation &LinkagewithinnovationAmbassdors	27-05-2023	Dr. Md. Sirajuddin HOD IT KHIT
8	A Motivational session by successful start-up founder	02-03-2023	Mr.N. Venkata Reddy CEO, TECKTEAM Solutions Visakhapatnam
9	Entrepreneurship, Innovation as career opportunity	08-12-2022	Dr. ChSyamala Devi MBA Department
10	Exposure and Field Visit for problem Identification VTPS, Vijayawada	30-11-2022	VTPS Vijayawada
11	A Motivational session by successful Innovator	02-12-2022	Mr. A Mahesh Babu Asst. Prof. Department of MBA KHIT
12	Problem solving and Ideation	12-11-2022	K Krishna Mohan Psychologist Director ANIMAR inspirational and Motivational services
13	International Innovation Day celebrations	16-02-2023	Dr. M Uma Sankara Reddy Director KHIT
14	Exhibition of Poster presentation of Ideas	5-01-2023	M Rama Krishna Divisional Railway Manager

15	National Youth Day Celebrations	12-01-2023	Dr. M Uma Sankara Reddy Director KHIT
16	National Science Day Celebrations	28-02-2023	Dr. G Srinivasulu Dean-Freshman Engineering KHIT

CAY m3: 2021-22

S.No	Program	Date	Resource Person
1	National Science Day Celebration 2022	28-02-2022	Dr. G Srinivasulu Dean-Freshman Engineering KHIT
2	National Education Day celebration	11-11-2021	Dr. M Uma Sankara Reddy Director KHIT
3	Online session " E-symposium on building innovation eco system in educational systems	11-01-2022	Dr. Anil Founder FarEyepvt Ltd.
4	Online session " E-symposium on building innovation eco system in educational systems	12-01-2022	Dr. AbhayJere Chief Innovation officer, Innovation Cell, MoE, AICTE
5	Orientation Session on IIC 4.0	24-01-2022	Dr. DipanSahu Assistant Innovation Director MOE, AICTE
6	Session on Developing online Repository of ideas developed and way forward plan	28-02-2022	Dr. Y Srinivasa Rao Professor Department of MBA, KHIT
7	Session on Pitching workshop and linkage of Innovators with innovation ambassadors	6-01-2022	Mr. J Veer Kumar Asst. Professor Department of MBA, KHIT
8	Exposure Visit to Makers space	18-02-2022	Dr. L Shanmuka Rao Professor HOD EEE,KHIT
9	Session on Achieving problem – solution fit and product-market fit	20-12-2021	Mr. P Syam Kumar Asst. Professor Department of MBA, KHIT

10	Workshop on Entrepreneurship innovation and career opportunities innovation an	1-11-2021	Mrs. ChSymala Devi Asst. Professor Department of MBA, KHIT
11	Session on Ideation Motivational session by successful Entrepreneur/start-up founder	12-11-2021	Mrs. ChSymala Devi Asst. Professor Department of MBA, KHIT
12	Session on Problem solving and Ideation	20-11-2021	Mr. P Syam Kumar Asst. Professor Department of MBA, KHIT
13	Exposure and Field Visit for problem Identification VTPS	30-10-2021	Mr. K Nagaraju Mr. A Panduranga Rao Asst. Prof. EEE, KHIT
14	Workshop on Pitching event for Ideas scouted and Linkage with innovation ambassadors for Mentorship	10-12-2021	Mrs. Syed Praveen Assoc. Prof. Dept. of MBA, KHIT

HI/BI Centre by MSME, KHIT

- The Ministry of MSME provides financial assistance through the Business Incubator (BI) for providing opportunity to the individual innovators in developing and nurturing their new and innovative ideas for the production of new and innovative products which can be sent in to the market for commercialization.
- Kallam Haranadhareddy Institute of Technology is approved by MSME as Host Institution for Business incubator (HI/BI) in theyearof 2019.
- KHIT's Business Incubator incubates the ideas and promotes side a submission for funding to the funding agencies.
- Incubation not only aids in technical innovation but also facilitates students to plan start-ups, manage finances and ensure proper utilization of their sources

Institution's Innovation Council(IIC)–KHIT organizes programs in association with Entrepreneurship Development Cell to encourage Entrepreneurship among the students.

9.7 Co – Curricular and Extra-Curricular Activities (10)

A. Co-curricular Activities

The teaching – learning process followed in the institute includes a number of co-curricular activities that are carried out in the college besides the conventional curricular activities like Classroom teaching, conduct of laboratories and tutorials.

KHIT encourages students to participate in various co-curricular, extracurricular, and cultural activities. Our students have excelled in university, state, and zonal-level competitions, winning prizes and cash awards in technical and cultural fests.
They have actively participated in paper presentations, technical quizzes, project expo, poster presentations, and coding competitions, showcasing their skills and innovation. These achievements reflect KHIT's commitment to holistic student development. Details of participation in technical events like paper presentation/technical quiz/project expo/poster presentation/ coding are presented in Table B.9.7a.

Table B.9.7a: Participation of students in co-curricular activities

Academic Year	**2024-25**	**2023-24**	**2022-23**
Number of Meritorious Students	49	63	48
Number of Students Participated	558	519	503
Total Students	**607**	**582**	**551**

B. Extra- curricular Activities

(i) Sports

The institution encourages sports and game sunder the efficient stewardship of two physical directors. Students are encouraged in all games and sports competitions. Students are given good training by conducting coaching camps and intramural competitions regularly. Our students have bagged many shields, cups and medals at University, State and National level competitions. Games and sports inculcate a good atmosphere of friendship, co-operation and fellow feeling which will help them in their life and career. The college comprises of various Sports and Games fields like Ball Badminton, Basketball, Cricket, Volleyball, Badminton, Kabaddi, Kho-Kho, Throw ball, Tennicoit, Chess, Caroms, Table tennis for both men and women. The College conducts games for all the National level engineering colleges during SAMKALP which is an academic, cultural and sports fest. The in-house teams are encouraged on Sports Day. An eminent sports person will be invited to motivate the students and give away the prizes. Sports faculty and sports committee members to get organize and monitors the activities done under sports category.

Sports Committee:

This committee organizes all the sports events on the campus nourish the budding sports men and strengthen the sporting environment among students. It provides the engineering students with means and environment to pursue their sporting passions.

Sports facilities:

Table B.9.7b: Members of the sports committee

S.No	Name	Designation	Position
1	Dr. B.S.B. Reddy	Principal	Chairman
2	Mr. P. Punna Reddy	Asst. Professor in Physical Education	Convener
3	Mr. A. Narendra Kumar	Asst. Professor in Physical Education	Member
4	Mr. K. Ravi	Asst. Professor in Physical Education	Member
5	Ms. A. V. Siva Parvathi	Asst. Professor in Physical Education	Member
4	Mr. G. Harish	Asst. Prof. in ME	Member
5	Mr. T. Ankamma Rao	Asst. Prof. in CE	Member
6	Mr. G. Suresh Babu	Asst. Prof. in ME	Member
7	Mr. P. Naga Raju	Assoc. Prof. in S & H	Member
8	Mr. P. Akash	228X1A0213	Member
9	Ms. G. SowmyaRatna.	228X1A0458	Member

Fig. 9.7a: Gymnasium

Table B.9.7c: List of indoor sports facilities

S. No	Name of the Facility	Numbers Available	Whether Available Beyond Regular Timings	Remarks on Utilization
1	Table Tennis – Tables and accessories	2 Tables	Yes	Utilized extensively
2	Chess boards with Tables and chairs	20boards	Yes	Utilized extensively
3	Caroms with coin-sets, Tables and Chairs	8boards	Yes	Utilized extensively
4	Gym	15Items	Yes	Utilized extensively

Table B.9.7d: List of outdoor sports facilities

S.No	Name of the Facility	Numbers Available	Whether Available Beyond Regular Timings	Remarks on Utilization
1	Volleyball	3 Courts	Yes	Utilized extensively
2	ThrowBall	2 Courts	Yes	Utilized extensively
3	Kabaddi	2 Courts	Yes	Utilized extensively
4	Tennikoit	3 Courts	Yes	Utilized extensively
5	Basketball	1 Court	Yes	Utilized extensively
6	Cricket	1 Ground and 1Practicenet	Yes	Utilized extensively
7	Kho-Kho	1 Court	Yes	Utilized extensively

Table B.9.7e: List of Students Represented JNT University Team

CAY: 2024-25

S.No	Roll No.	Name of the student	Name of the Event	Event dates	Name of the Organizing Inst.	Award/Prize/ Participated
1	238X1A4460	T. Shajin Kumar	Basket Ball	01-11-2024 to 05-11-2024	SRM University, Chennai	Participated
2	238X1A4598	G.Pushpa Sri	Volley Ball	07-01-2025 to 11-01-2025	JEPPIAAR University, Chennai	Participated
3	218X1A0585	K.Shashank	Chess	08-01-2025 to 11-01-2025	VEL Tech University, Chennai	Participated

CAYm1: 2023-24

S.No	Roll No.	Name of the student	Name of the Event	Event dates	Name of the Organizing Inst.	Award/Prize/ Participated
1	228X1A42G5	S.Vinaykumar	Wrestling	01-11-2024 to 06-11-2024	CHANDIGARH University ,Punjab	Participated

CAYm2: 2022-23

S.No	Roll No.	Name of the student	Name of the Event	Event dates	Name of the Organizing Inst.	Award/Prize/ Participated

1	228X1A42G5	S. Vinaykumar	Wrestling	27-01-2023 to 29-01-2023	SHIVAJI University ,Maharastra	Participated

Table B.9.7f: List of students – Intercollegiate Sports

S.No	Roll No.	Name of the student	Name of the Event	Event dates	Name of the Organizing Inst.	Award/ Prize/ Participated
1	228X5A4210	Sk.Rafi	Basket ball	26-10-2024 to 27-10-2024	SRKR Bhimavaram	2nd place
2	228X5A4207	M.Chandra shaker	Basket ball	26-10-2024 to 27-10-2024	SRKR Bhimavaram	2nd place
3	228X5A4206	M.Saketh	Basket ball	26-10-2024 to 27-10-2024	SRKR Bhimavaram	2nd place
4	218X1A4205	B.Vinay	Basket ball	26-10-2024 to 27-10-2024	SRKR Bhimavaram	2nd place
5	238X5A0316	Sk.Afroz	Basket ball	26-10-2024 to 27-10-2024	SRKR Bhimavaram	2nd place
6	238X1A4460	T.Shajinkumar	Basket ball	26-10-2024 to 27-10-2024	SRKR Bhimavaram	2nd place
7	248X1A4212	B.Likith	Basket ball	26-10-2024 to 27-10-2024	SRKR Bhimavaram	2nd place
8	228X5A4204	K.Madhu	Basket ball	26-10-2024 to 27-10-2024	SRKR Bhimavaram	2nd place

9	238X1A4241	K.Avinash	Athletics	10-11-2024 to 11-11-2024	ADITHYA ENG COLLEGE Surampallem	Participated
10	238X1A4226	G.Srinivasulu Reddy	Athletics	10-11-2024 to 11-11-2024	ADITHYA ENG COLLEGE Surampallem	Participated
11	248X1A0103	G.VeeraBabu	Athletics	10-11-2024 to 11-11-2024	ADITHYA ENG COLLEGE Surampallem	Participated
12	238X1A4561	M.Mounika	Athletics	10-11-2024 to 11-11-2024	ADITHYA ENG COLLEGE Surampallem	Participated
13	248X1A05K6	N.Sarasvathi	Athletics	10-11-2024 to 11-11-2024	ADITHYA ENG COLLEGE Surampallem	Participated
14	248X1A1237	K.Mounika	Athletics	10-11-2024 to 11-11-2024	ADITHYA ENG COLLEGE surampallem	Participated
15	238X1A05K7	N.Shiresha	Athletics	10-11-2024 to 11-11-2024	ADITHYA ENG COLLEGE Surampallem	Participated
16	218X1A0585	K.Shashank	Chess	13-11-	PSCMR	1st Palce

				2024 to 14-11-2024	Vijayawada	
17	218X1A04C4	P.Hari Krishna	Cricket	13-12-2024 to 29-12-2024	V.R Sidhartha Vijayawada	Participated
18	218X1A0429	K.Delip Kumar	Cricket	13-12-2024 to 29-12-2024	V.R Sidhartha Vijayawada	Participated
19	218X1A04F9	T.Yahajiyele	Cricket	13-12-2024 to 29-12-2024	V.R Sidhartha Vijayawada	Participated
20	218X1A0434	M.Naveen	Cricket	13-12-2024 to 29-12-2024	V.R Sidhartha Vijayawada	Participated
21	228X1A0201	A.Raj Kumar	Cricket	13-12-2024 to 29-12-2024	V.R Sidhartha Vijayawada	Participated
22	228X1A0229	D.Thirupathi Reddy	Cricket	13-12-2024 to 29-12-2024	V.R Sidhartha Vijayawada	Participated
23	228X1A4267	K.Aravind	Cricket	13-12-2024 to 29-12-2024	V.R Sidhartha Vijayawada	Participated
24	228X1A0459	G.Karthik	Cricket	13-12-2024 to 29-12-2024	V.R Sidhartha Vijayawada	Participated
25	228X1A4446	A.Venkata Rishi Yadav	Cricket	13-12-2024 to 29-12-2024	V.R Sidhartha Vijayawada	Participated
26	228X1A4284	M.Gopi	Cricket	13-12-2024 to 29-12-2024	V.R Sidhartha Vijayawada	Participated

27	238X5A0520	Y.Siva Sai Teja	Cricket	13-12-2024 to 29-12-2024	V.R Sidhartha Vijayawada	Participated
28	238X1A0523	D.Sandeep	Cricket	13-12-2024 to 29-12-2024	V.R Sidhartha Vijayawada	Participated
29	238X1A1229	Sk.Ahamad	Cricket	13-12-2024 to 29-12-2024	V.R Sidhartha Vijayawada	Participated
30	248X5A0103	Sk.JaniBasha	Cricket	13-12-2024 to 29-12-2024	V.R Sidhartha Vijayawada	Participated
31	228X1A0424	D.Vishnu Narayana	Cricket	13-12-2024 to 29-12-2024	V.R Sidhartha Vijayawada	Participated
32	228X1A4241	K.Avinash	Cricket	13-12-2024 to 29-12-2024	V.R Sidhartha Vijayawada	Participated
33	228X1A42E8	Y.Bhavani Shankar	Volley Ball	01-12-2024 to 02-12-2024	NEC Narasaraopet	Participated
34	218X1A0417	J.ShivaTeja	Volley Ball	01-12-2024 to 02-12-2024	NEC Narasaraopet	Participated
35	228X1A4514	J.V.Saikumar	Volley Ball	01-12-2024 to 02-12-2024	NEC Narasaraopet	Participated
36	228X1A0454	B.L.S.B.Chari	Volley Ball	01-12-2024 to 02-12-2024	NEC Narasaraopet	Participated
37	238X1A4250	A.Manohar	Volley Ball	01-12-2024 to 02-12-	NEC Narasaraopet	Participated

				2024		
38	248X1A4293	N.Aravind	Volley Ball	01-12-2024 to 02-12-2024	NEC Narasarao pet	Participated
39	238X1A4561	M.Mounika	Volley Ball	21-12-2024 to 22-1-2024	KHIT Guntur	Participated
40	238X1A4598	G.Pushapa Sri	Volley Ball	21-12-2024 to 22-1-2024	KHIT Guntur	Participated
41	238X1A4586	V.Purnima	Volley Ball	21-12-2024 to 22-1-2024	KHIT Guntur	Participated
42	248X1A05K7	N.Sirisha	Volley Ball	21-12-2024 to 22-1-2024	KHIT Guntur	Participated
43	248X1A0443	V.Vijayalakshmi	Volley Ball	21-12-2024 to 22-1-2024	KHIT Guntur	Participated
44	228X1A0458	G.SoumyaRathna	Volley Ball	21-12-2024 to 22-1-2024	KHIT Guntur	Participated
45	248X1A05T4	T.Sanjana	Volley Ball	21-12-2024 to 22-1-2024	KHIT Guntur	Participated
46	248X1A0	R.Sangeetha	Volley Ball	21-12-2024 to 22-1-2024	KHIT Guntur	Participated
47	248X1A1237	K.Mounika	Volley Ball	21-12-2024 to 22-1-2024	KHIT Guntur	Participated

***(ii)** Annual Student Activities*

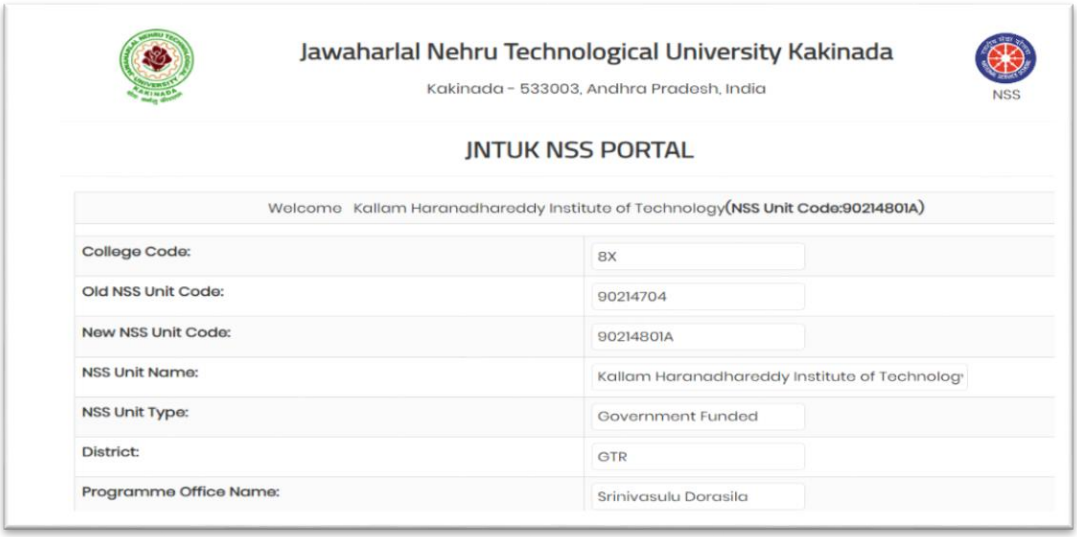
Samkalp and Annual Day Celebrations

It has been a regular practice of the campus to organize cultural events for students at every possible occasion and opportunity as it provides a platform to express their uniqueness and inherent abilities in diverse areas of interest.

Fig. 9.7b: Cultural Activities during Samkalp

(iii) Outreach Activities - NSS Unit

NSSUnitofKallamHaranadhareddyInstituteofTechnologybearingunitcode:90214801 A is sanctioned by affiliating University JNTUK, Kakinada, in the year 2017.NSS unit -KHIT receives funding from JNTUK, Kakinada on annual basis for organizing regular as well as special camps. The NSS unit KHIT organizes various service activities by utilizing funds sanctioned by the University. The details of the activities and the utilization of funds is submitted to the University for approval and sanction of the funds for the ensuing year.



Jawaharlal Nehru Technological University Kakinada

Kakinada - 533003, Andhra Pradesh, India

NSS

JNTUK NSS PORTAL

Welcome Kallam Haranadhareddy Institute of Technology(NSS Unit Code:90214801A)

College Code:	8X
Old NSS Unit Code:	90214704
New NSS Unit Code:	90214801A
NSS Unit Name:	Kallam Haranadhareddy Institute of Technolog
NSS Unit Type:	Government Funded
District:	GTR
Programme Office Name:	Srinivasulu Dorasila

Fig. 9.7c:Details of theNSS unit - University Dashboard

To encourage students to serve the nation and society, the nearby villages are adopted and special camps are conducted. Plantation, Swachh Bharat and Blood Donation Camps are successfully organized by the NSS Unit.The enthusiastic and service-oriented Students are identified as NSS Volunteers. NSS Volunteers under the guidance of the Program officer (PO) participate in organizing and conducting the camps. NSS unit also conducts awareness activities as per the directions given by AICTE and UGC

Table B.9.7g: List of Outreach Activities

CAY: 2024 – 25

S.No.	Date	Activity/Event	Conducted By	Venue
1	04-02-2025	Sri Gayatrimatha temple Seva	Dhasaripalem Temple committee	Dhasaripalem
2	26-01-2025	Republic day	KHIT	KHIT
3	23-01-2025	Medical Camp	Amrutha Hospital, Guntur	KHIT
4	24-12-2024	Medical Camp	Endo life hospital and Konaac diagnostics, Guntur	KHIT
5	10-12-2024	Quiz	VikshithBarath quiz by Govt of India	On line
6	01-11-2024	Medical Camp	Max Vision Eye Hospital, Guntur	KHIT
7	01-10-2024	Swachhatta Rally	KHIT	Dhasaripalem
8	30-09-2024	Swachhatta Hi Seva Avoid Plastic Program	KHIT	KHIT
9	15-08-2024	Independence Day	KHIT	KHIT
10	13-08-2024	Tobacco Free Youth Rally	KHIT	Dhasaripalem
11	12-08-2024	Drugs awareness Program	KHIT	KHIT
12	31-07-2024	Plantation (EkPedMaaKeNaamAbhiyanon)	KHIT	KHIT
13	21-06-2024	Yoga Day	KHIT	KHIT
14	14-06-2024	My Bharat Training	JNTUK NSS	VVIT
15	13-05-2024	Voter polling booth Assistance	District police officers	Guntur
16	27-04-2024	3K walk of first time voters Rally	District CEO & Collector	Guntur

Fig. 9.7d: Swachhatta Hi Seva – Say NO to Plastic, program conducted by KHIT NSS Unit on 30-09-2024

CAYm1: 2023 - 24

S. No.	Date	Activity/Event	Conducted By	Venue
1	11-03-2024 to 17-03-2024	Special Camp	KHIT	Pothur
2	16-03-2024	Voter awareness rally	KHIT	Pothur
3	12-03-2024	International MahilaDinotsavam	KHIT	KHIT, Guntur.
4	16-02-2024	Services for Sri Gayatrimatha Temple	Dhasaripalem, sriGayatrimatha Temple management	Dhasaripalem, sriGayatrimatha Temple
5	02-02-2024	Eye Medical Camp	Help Foundation, Sattenapalli, Guntur	KHIT, Guntur.
6	26-01-2024	Republic day	KHIT	KHIT, Guntur.
7	25-01-2024	SVEEPActivity	KHIT	KHIT, Guntur.
8	26-12-2023	AduthamAndra	AP state	Nallapadu,

		Inauguration CM Programe	Government	Guntur
9	11-12-2023	Viksit Bharath@2047	KHIT	KHIT, Guntur.
10	01-11-2023	Blood Donation Camp	Red Cross & Thalassemia Needs Blood Bank	KHIT, Guntur.
11	31-10-2023	National Unity Day Rally	Dhasaripalem	KHIT, Guntur.
12	13-10-2023	KalasaYatra	KHIT	KHIT, Guntur.
13	11-10-2023	Medical Camp	Endo life hospital and Konaac diagnostics, Guntur	KHIT
14	17-09-2023 & 18-09-2023	Swachhatta league 2.0	Sachivalayam Staff, Dhasaripalem, Guntur	KHIT, Guntur.
15	09-08-2023	Plantation Meri matiMeradesh	KHIT	Sachivalaya m, and School, Dhasaripalle m, Guntur.
16	21-06-2023	Yoga day	KHIT	KHIT, Guntur.

Fig. 9.7e.: Blood Donation Camp on 01-11-2023

ఆంధ్రపత్రిక

రక్తం హరనాథరెడ్డి స్మృతిదినం.రక్తదాన శిబిరం ప్రారంభం.

గుంటూరు : నవంబర్ 1(ఆంధ్రపత్రిక): గుంటూరు శివారులో నెలకొన్న కళ్ళం హరనాథరెడ్డి ఇన్స్టిట్యూట్ ఆఫ్ టెక్నాలజీ కళాశాల నందు బుధవారం కళాశాల వ్యవస్థాపకులు కళ్ళం హరనాథరెడ్డి 8వ జయంతి సందర్భంగా కళాశాల ఆవరణలో కళ్ళం హరనాథరెడ్డి స్మృతి వనంలో కళ్ళం గ్రూపు సంస్థల ఛైర్మన్ కళ్ళం మోహనరెడ్డి అంజలి ఘటించారు. ఈ సందర్భంగా ఇంజనీరింగ్ కళాశాల విద్యార్థినీ విద్యార్థులు పెద్ద సంఖ్యలో రక్తదానం చేశారు. ఈ రక్తదాన శిబిరంలో 200 మందికి పైగా ఇంజనీరింగ్ విద్యార్థినీ విద్యార్థులు పాల్గొని కళ్ళం సంస్థల వ్యవస్థాపక ఛైర్మన్ కళ్ళం హరనాథరెడ్డిని స్మరిస్తూ సమాజంలో ఎంతోమంది తలసేమియా రోగ పీడితులకు అవసరమైన రక్తదానానికి సంబంధించి ఉపయోగపడే విధంగా తలసేమియా బ్లడ్ బ్యాంక్ వారికి మరియు రెడ్ క్రాస్ సొసైటీ వారు సంయుక్తంగా ఈ రక్తదాన శిబిరంలో పాల్గొని విద్యార్థులు రక్తాన్ని దానం చేశారు. ఈ కార్యక్రమంలో కళాశాల డైరెక్టర్ డా యం. ఉమా శంకరరెడ్డి, కళాశాల ప్రిన్సిపల్ డా బి.యస్.బి.రెడ్డి, కళాశాల యస్.సి.సి.ఆఫీసర్ డి. శ్రీనివాసులు, కళాశాల ఉపాధికల్పనాధికారి డా పి.యల్. మాధవ రావు, అధ్యాపక, అధ్యాపకేతర సిబ్బంది మరియు విద్యార్థులు పెద్ద సంఖ్యలోపాల్గొని నివాళులు అర్పించారు.

రక్తదాన శిబిరం ప్రారంభం

విశాలాంధ్ర-గుంటూరు కార్పొరేషన్: గుంటూరు శివారులో నెలకొన్న కళ్ళం హరనాథరెడ్డి ఇన్స్టిట్యూట్ ఆఫ్ టెక్నాలజీ కళాశాల నందు కళాశాల వ్యవస్థాపకులు కీ.శే.కళ్ళం హరనాథరెడ్డి 8వ జయంతి సందర్భంగా బుధవారం కళాశాల ఆవరణలో కళ్ళం హరనాథరెడ్డి స్మృతి వనంలో కళ్ళం గ్రూపు సంస్థల ఛైర్మన్ కళ్ళం మోహనరెడ్డి అంజలి ఘటించారు. ఈ సందర్భంగా కళాశాల విద్యార్థినీ విద్యార్థులు పెద్ద సంఖ్యలో రక్తదానం చేశారు. ఈ రక్తదాన శిబిరంలో 200 మందికి పైగా ఇంజనీరింగ్ విద్యార్థులు పాల్గొని కళ్ళం హరనాథరెడ్డిని స్మరిస్తూ సమాజంలో ఎంతోమంది తలసేమియా రోగ పీడితులకు అవసరమైన రక్తదానానికి సంబంధించి ఉపయోగపడే విధంగా సిద్ధి తలసేమియా బ్లడ్ బ్యాంక్ వారికి, రెడ్ క్రాస్ సొసైటీ వారు సంయుక్తంగా శిబిరంలో పాల్గొని విద్యార్థులు రక్తాన్ని దానం చేశారు. కార్యక్రమంలో కళాశాల డైరెక్టర్ డా.యం.ఉమాశంకరరెడ్డి, కళాశాల ప్రిన్సిపల్ డా.బి. యస్.బి. రెడ్డి, కళాశాల ఎన్సీసీ ఆఫీసర్ డి.శ్రీనివాసులు, ఉపాధికల్పనాధికారి డా.పి.యల్.మాధవరావు, అధ్యాపక, అధ్యాపకేతర సిబ్బంది, విద్యార్థులు పాల్గొని హరనాథ రెడ్డి జయంతి సందర్భంగా నివాళులు అర్పించారు.

Fig. 9.7f: Newspapers coverage of Blood Donation Camp on 01-11-2023

CAYm2:2022-2023

S. No.	Date	Activity/Event	Conducted By	Venue
1	29-01-2023	Personality Development Workshop	VivekaBarathi-RSS, Guntur	Hindhu College, Amaravathi Road, Guntur.
2	21-12-2022	Blood Donation Camp - 2	Red cross society & GGH, Guntur	MajetiGuravaiah High School, Guntur
3	05-12-2022	Voter Enrollment	MRO, Guntur West	KHIT, Guntur.
4	28-11-2022	Medical camp	Konacc Diagnostics, Guntur	KHIT, Guntur.
5	01-11-2022	Donated to Amma Ashram	KHIT	Naga Sai Mandhir, Nallapadu Road, Guntur.
6	31-10-2022	National Unit Day	KHIT	KHIT, Guntur.
7	28-10-2022	Health Talk KMC	Katuri Medical College & Hospital, Guntur	KHIT, Guntur.
8	21-10-2022 & 22-10-2022	Mega Dental Camp	Care Dental Hospital & College, NH-5, Guntur	KHIT, Guntur.
9	19-10-2022	Clean India campaign 2.0	KHIT	KHIT, Guntur.
10	25-09-2022	Vastavalu - Avakashaalu @75 India Seminar	Jana Chaithanyavedika, Guntur	Sri Venkateswara VignanMandhir, Guntur.
11	26-08-2022	Blood donation Camp -1	Sri Welfare Blood bank, Guntur	KHIT, Guntur.
12	13-08-2022	HarGharThiranga Rally and debate	KHIT	Dhasaripalem & KHIT, Guntur

13	12-08-2022	Essay Writing	KHIT	KHIT, Guntur.
14	11-08-2022	Spot Painting	KHIT	KHIT, Guntur.
15	10-08-2022	Selfie with National Flag	KHIT	KHIT, Guntur.
16	06-07-2022	Vanamahosthavam	KHIT	KHIT, Guntur.
17	21-06-2022	Yoga Day Celebrations	KHIT	KHIT, Guntur.

Fig. 9.7g: Vanamahosthavam (Plantation) on 06-07-2022

కళ్లంలో ఘనంగా వన మహోత్సవం

గుంటూరు రూరల్, జులై 7, ప్రభాతవార్త: గుంటూరు నగర శివారు చౌడవరం కళ్లం ఇంజినీరింగ్ కళాశాలలో బుధవారం వన మహోత్సవ కార్యక్రమం ఘనంగా జరిగింది. ఈ సందర్భంగా ప్రధాన రహదారిపై ఎన్ఎస్ఎస్ విద్యార్థులు మొక్కలు నాటారు. అనంతరం కళాశాల ఛైర్మన్ కళ్లం మోహనరెడ్డి మాట్లాడుతూ చెట్లను మనం కాపాడితే చెట్లు మనల్నిసంరక్షిస్తాయన్నారు. కళాశాల డైరెక్టర్ మువ్వా ఉమాశంకరరెడ్డి మాట్లాడుతూ చెట్ల వల్ల కలిగే లాభాలను వివరించారు. తమ కళాశాల సామాజిక సేవా కార్యక్రమాల్లో ఎప్పుడుముందుంటుందని సూచించారు. కార్యక్రమంలో ప్రిన్సిపల్ బీఎస్బీ రెడ్డి, సివిల్ విభాగాధిపతి ఎం.సతీష్‌కుమార్, పిడి పి.వున్నారెడ్డి, ఎన్ఎస్ఎస్ ఆఫీసర్ డి.శ్రీనివాసులు, విద్యార్థులు తదితరులు పాల్గొన్నారు.

Fig.9.7h: Newspaper coverage of Vanamahosthavam (Plantation) on 06-07-2022

CAYm3:2021-2022

S. No.	Date	Activity/Event	Conducted By	Venue
1	21-03-2022 to 28-03-2022	Special Camp: 2021-2022	KHIT	Pothuru, Guntur Rural, Guntur District
2	08-03-2022	Women's Day Celebrations	KHIT	KHIT, Guntur.
3	16-02-2022	Cardiovascular Medical Camp	Katuri Medical college & Hospital, Guntur	KHIT, Guntur.
4	07-01-2022	Yoga (AtmaNirbharataBharath)	KHIT	KHIT, Guntur.
5	19-12-2021	Blood donation Camp	Bhajrang infrastructure	Pattabipuram, Guntur.
6	23-11-2021	Dental Medical Camp	Australian, Dental Hospital, Guntur	KHIT, Guntur.
7	19-11-2021	Child Awareness program	Child line-1098, Social Educational and Economic Development Society (SEEDS),	KHIT, Guntur.

			Guntur	
8	11-11-2021	NSS Review Meeting	Online - JNTUK, Kakinada	KHIT, Guntur.
9	10-11-2021	Quiz competition	Bhajrang infrastructure	KHIT, Guntur.
10	01-11-2021	Essay writing on the occasion of AtmaNirbharataBharath	KHIT	KHIT, Guntur.
11	16-09-2021	Covid Vaccination drive	KHIT	KHIT, Guntur.
12	15-09-2021	Celebrationsof Engineers' day	KHIT	KHIT, Guntur.
13	14-09-2021	Dhisha awareness program	KHIT	KHIT, Guntur.
14	26-08-2021	Swatchata Hi Seva	KHIT	KHIT, Guntur.
15	21-06-2021	Yoga Day Celebrations	KHIT	KHIT, Guntur.
16	18-05-2021	Donation to Amma Ashram	KHIT	Adharsha Nagar, Guntur

Fig.9.7i: Yoga Day Celebrations at KHIT

CRITERION 10	Governance, Institutional Support and Financial Resources	120

10.1.1. Organization, Governance and Transparency (55)

10.1.2. State the Vision and Mission of the Institute(5)

Kallam Haranadhareddy Institute of Technology, popularly known as KHIT, was started in the year 2010 by Kallam Academy of Educational Society in Chowdavaram, Guntur in Guntur district by Sri. Kallam Haranadhareddy, an eminent industrialist in Andhra Pradesh. The institution was established with a noble idea of imparting technical education and skills to the rural students.

INSTITUTE VISION

- To be a quality - oriented technical institution known for global academic excellence and professional human values

INSTITUTE MISSION

- To provide quality instruction with competent and knowledgeable faculty and state-of-the-art laboratories to meet global standards.
- To achieve academic distinction through socially and industry-relevant curriculum, novel teaching and learning practices and evaluation based on desired outcomes.
- To prepare the graduates to accomplish professional practice, employability, entrepreneurial development and higher education.
- To inculcate self-discipline, accountability and values in the learners for effective and informed citizenship.
- To focus on effective industry-institution interaction with premier institutes and renowned industries to become a research and development center.

10.1.3. Availability of the Institutional Strategic Plan and its Effective Implementation and Monitoring (25)

INSTITUTIONAL STRATEGIC PLAN

2022-2027

DEPLOYMENT DOCUMENT

KALLAM HARANADHAREDDY INSTITUTE OF TECHNOLOGY
(AUTONOMOUS)

Approved by AICTE, New Delhi and Permanently Affiliated to JNTUK, Kakinada
NH16, Chowdavaram, Guntur Dt. Andhra Pradesh - 522019

2022-2027

President's Message

Kallam Academy of Educational Society (KAES), a non-profit making Society, has been set up Kallam Harandhareddy Institute of Technology (KHIT) with an objective to promote Technical and Professional education with high standards. KAES believes that this objective would be realized with the participation of experienced faculty members, state-of-the-art infrastructure and with modern teaching and learning facilities. KHIT offers innovative, career-oriented UG, PG and diploma programs matching the requirements of the industry and society at large.

For any organization, strategic planning is very much essential to accomplish the Vision and Mission, which it dreams of. Strategic planning is a continuous process with a specific focus on accomplishing institutional goals in this highly competitive world. Strategic Planning and Deployment Document (SPDD) is based on analysis of current obstacles and future opportunities and envisages the direction in which the organization should move to achieve its set goals and objectives. The first part of SPDD addresses vision, mission which the management dreams along with core values, the institutional long-term & short-term goals. These are defined by the stakeholders' aspirations (management, leadership, HODs, faculty, staff, industry, students and parents) and through SWOC analysis. After analyzing the internal and external environment, the institutional goals were set up in all possible growth domains through brainstorming sessions with HODs and faculty members. The strategies with action plans were decided to achieve institutional strategic goals.

While formulating the strategic plan and deployment document, care has been taken to involve every stakeholder to build a spirit of ownership which is vital for the success of any organization. The strategic plan and deployment are circulated to all the departments. Utmost care has been taken to spell out the implementation and monitoring by identifying measurable targets in line with the desired outcomes. The SPDD is discussed thoroughly and approved by the Governing Board. The SPDD will synchronize the processes and efforts of the institution and it will also ensure that KHIT will become a most preferred technical education institution in the state of Andhra Pradesh by 2027.

President – KAES

1.0		**THE KHIT PLANNING MODEL**
		Institutions of higher education are driven to engage in strategic planning by a variety of critical forces, both external and internal, to their environments. The forces driving the KHIT's 2022-2027 Strategic Plan for KHIT include, but are not limited to, the demand for higher education that is fueled by the economic progress and high unemployment; changing demographics; and the need for a workforce that will enable this region of AP state to maintain its competitive edge on the national stage encompassing Engineering and Technology. The KHIT 2022-2027 Strategic Plan is grounded in the following best practice principles: 1. Effective strategic planning requires identifying and implementing strategies that will move KHIT to a better desired future as an educational institution in the state of AP, nationally, and globally. 2. Strategic planning is not a "once-and-done" event. It is a continuous process involving planning, implementing, assessing outcomes and using results and lessons learned for further planning and revision and/or modification of strategies. 3. Measurement and/or assessment are key to strategic planning. Therefore, identifying key indicators for sub-goals and identifying responsible divisions/units will ensure effective monitoring and evaluation of outcomes. 4. The Institution should focus on a few but bold sub goals and strategies. Resources, including funds and time, are limited. Therefore, prioritizing strategies and focusing on those that have the potential of being game changers are critical. 5. Since the execution of strategies is at the department or unit level, the strategic planning process has to be participatory to ensure shared vision, as well as shared ownership of and commitment to the plan by stakeholders throughout the Institution. The strategic planning process uses a methodical approach to engage in systematic and comprehensive assessment of the annual KHIT strategic operational plan. Goals and sub-goals are carefully tracked; and reports are regularly disseminated to assist faculty, staff, and administrators in using data-driven decision making and to map progress. The 2022-2027 Strategic Plan represents the collective effort of administrators, faculty, staff, students and community stakeholders. The process began when the Strategic Planning Committee is identified in the institution. Strategic planning Committee aligned department/unit goals

		with the KHIT goals and themes. Every member of the institution worked diligently to add sub-goals and strategies. The management-built consensus on sub-goals and strategies, shared the first draft for feedback from stakeholders (e.g., faculty, staff, students, alumni and strategic partners) and prepared a final draft.
2.0		**VISION & MISSION**
	2.1	**VISION** • To be a quality - oriented technical institution known for global academic excellence and professional human values
	2.2	**MISSION**
		• To provide quality instruction with competent and knowledgeable faculty and state-of-the-art laboratories to meet global standards. • To achieve academic distinction through socially and industry-relevant curriculum, novel teaching and learning practices and evaluation based on desired outcomes. • To prepare the graduates to accomplish professional practice, employability, entrepreneurial development and higher education. • To inculcate self-discipline, accountability and values in the learners for effective and informed citizenship. • To focus on effective industry-institution interaction with premier institutes and renowned industries to become a research and development center.
	2.3	**OBJECTIVES**
		• To develop institute as an excellent learning center in engineering education. • To provide excellent infrastructure facilities for teaching, learning and research. • To instil in the students the spirit for research, innovation and entrepreneurship. • To enhance the industry institute interaction and the placement services. • To foster students as responsible techno-citizens with moral and social values.
	2.4	**CORE VALUES**
		KHIT focused on eight core values detailed below:
		i. Contributing to National Development Contributing to National development has always been an implicit goal of KHIT. Serving the cause of social justice,

ensuring equity, increasing access to higher education, human resource development and capacity building of individuals, to cater to the needs of the economy, society and the country as a whole, thereby, KHIT contributing to the development of the Nation.

ii. Fostering Global Competencies among Students

With liberalization and globalization of economic activities, the need to develop skilled human resources of a high calibre is imperative. Therefore, KHIT is preparing the students to achieve core competencies, to face the global challenges successfully innovative, creative and entrepreneurial in their approach. Towards achieving this, KHIT established collaborations with industries, networked with the neighbour-hood agencies/bodies and fostered a closer relationship between the "world of competent-learning" and the world of skilled work".

iii. Inculcating a Value System among Students

Although skill development is crucial to the success of students in the job market, skills are of less value in the absence of appropriate value systems. In India, with cultural pluralities and diversities, it is essential that students imbibe the appropriate values commensurate with social, cultural, economic and environmental realities, at the local and national level. KHIT shouldering the responsibility of inculcating desirable value systems among students.

iv. Promoting the Use of Technology & Innovation

Technological advancement and innovations in educational transactions have to be undertaken by all, to make a visible impact on academic development as well as administration. To keep pace with the developments in other spheres of human endeavour, KHIT has enriched the learning experiences of their students by providing them with state-of-the-art educational technologies including Information and Communication Technologies (ICT). KHIT established Incubation Centre and Entrepreneurship Development Cell to encourage students & Faculty for Innovation.

v. Quest for Excellence

The Institute is committed to excellence in all spheres of its activities, and through internal and external reviews, and will work towards continuous improvement. The Institute will demonstrate excellence by our people, programs and outcomes, as well as by the quality of decisions and actions recognized through awards and honours. This 'Quest for Excellence' started with the assessment or even earlier, by the establishment of the Internal

		Quality Assurance Cell (IQAC). **vi. Integrity** Integrity involves honesty and fairness, consistency in instruction, ethics of scholarship, freedom of inquiry, and open and truthful engagement with the community through effective communication, policies and practices. Research and Teaching shall be carried out in an environment of academic freedom and honesty. The Institute will adhere to the standards of ethics in all its activities. **vii. Transparency** The Institute will function according to defined procedures and rules, which will be informed to all stakeholders. The Institute will put all important information related to its functioning on the college Website. **viii. Empathy** An awareness of the conditions of the vulnerable sections of our society and contributions towards solution of their problems will form an integral part of the research and education programmers of the Institute. The vision articulates our future direction. The mission specifies our purpose of existence. The values assert our beliefs that guide our actions and behavior. Taken together, they provide a road map to our destination.
3.0		**SWOC ANALYSIS**
		i. STRENGTHS • Committed Management • 12 years of standing • Brand Name • Retention of employees • Disciplined campus **ii. WEAKNESSES:** • Number of faculty members need qualification upgradation and to get acquainted with the latest Technology • Need to focus on quality publications, patent filing and to explore commercial potential. • Consultancy services need to be increased. • Student's intake from a rural background • Limited scope for research and consultancy activities • Industry-Institute interaction needs further improvement. • Need to increase placements in core companies **iii. OPPORTUNITIES:** • To increase fundamental and applied research • To develop a Centre of Excellence in cutting-edge technologies,

in every branch of engineering
- To start the research centres in each branch of engineering
- To sign MoUs with more industries/ research organizations to facilitate the students and the teachers
- To increase the consultancy

iv. CHALLENGES:
- Competition with new higher educational institutions like deemed and private universities
- Mushrooming of engineering colleges in the state and the district.
- Need for improving employability of the students in the current scenario of rapidly changing technology and industrial requirements as well as policies prevailing from time to time in MNCs

4.0 EXPECTATIONS OF STAKEHOLDERS

MANAGEMENT	• Global Brand • Sustainability • Good Governance • University Status • Social Responsibility
LEADERSHIP TEAM	• Ranking withinthe top 100 in India • Competent Faculty • Internal Revenue growth for sustainability • Industry-oriented /continuing education programmes • Bench marking through Accreditation of programs and institution • Creation of Centers of excellence
FACULTY & STAFF	• Good academic & working ambience • Career growth, Research facilities & incentives • Academic independence with accountability • Transparency and uniform processes
STUDENTS	• Good academic & research ambience • Support for co-curricular & Extra-curricular activities • State of the art infrastructure • Experiential learning & Opportunity for talent exposure

			• Global Certifications at affordable cost • Quality Placement, career guidance and entrepreneurial opportunities
		PARENTS	• Branding • Quality teaching- learning • Disciplined students • Good placements
		INDUSTRY	• Industry ready professionals with proper attitude • Strong fundamentals • Strong Industry-Institution interaction • Collaborative research, consultancy • Brand and accreditations of the institute
5.0		**STRATEGIC GOALS**	
		KHIT Leadership Team after brainstorming on the vision, mission, quality policy, core values, stakeholder's expectations and SWOC analysis arrived at the step to establish the Institution Strategic Goals (ISG) • Ensuring good governance • Establishing an effective teaching and learning process • Developing financial management • Emphasis on Industry – Institute interaction • Encouraging research and innovation work • Ensuring student's development and participation • Ensuring staff development & welfare • Increasing Alumni Interaction • Engagement in Community Services and Extension Activities • Developing physical infrastructure, conservation of natural resources and sustainability • Getting University Status	
6.0		**STRATEGIC PLANNING (2022-2027)**	
		Ensuring good governance	• Inclusion of industrialists & academicians on GB • Vision, Mission development & their articulation • Evaluation of Institute performance and benchmarking • Establishing organization structure • Establishing statutory

				committees • Establishing e-Governance • Code of conduct and policy formulation, approval and implementation
			Establishing effective teaching and learning process	• Academic planning • Development of Course Files as per OBE model • Procurement of teaching, learning & evaluation software • Development of e- learning resources • Adoption of ICT • Providing mentoring and personal support • Create a fair feedback system • Evaluation parameters and benchmarking • Continuous assessment to measure outcomes • Implementation of best practices
			Developing financial management	• Implementation of Procurement and Financial policies • Department-wise Budget planning • Expenditure management • Forecasting income & expenditure • Budget formulation & approval • Periodic Internal/ External Audit
			Emphasis on Industry – Institute interaction	• Formation of an industry-institute interaction cell • MoUs with industries • Support for internships, visits, trainings, guest lectures • Identification of industry needs and advice on curriculum • Providing opportunities for Industry-based/sponsored

				projects • Strengthen training & placement • Establishing centers of excellence
			Encouraging research and innovation work	• Dedicated R&D center • Fundraising through Project proposals • Apply for Government/ other funding • Collaborations with Govt. and Private Research organizations • Encouragement for Patent filing
			Ensuring student's development and participation	• Establishment of infrastructure for overall development • Student's representation in various administrative and academic committees. • Organizing competitions • Rewards & recognitions of achievers
			Ensuring staff development & welfare	• Recruitment Policy formation & implementation • Staff performance appraisal system • Staff development programs • Best work facilities and infrastructure • Membership of professional bodies • Code of conduct & service rules • Staff welfare policy formation and implementation • Rewards, recognitions and incentives • Deputation for seminars, conferences • Sponsorship/ Motivation for qualification improvement • Support for research, consultancy, and innovations
			Increasing Alumni	• Alumni Registration, Regular

		Interaction	interactions with alumni and networking • Recognition of successful alumni • Leverage for guest lecturers/internships/placements • Exploring Contributions • Brand ambassadors • Sponsorships/scholarships
		Engagement in Community Services and Extension Activities	• Identify nearby villages for adoption • Community Service Projects in the curriculum • Educational support to village students • Conducting NSS camps
		Developing physical infrastructure, conservation of natural resources and sustainability	• Smart Classrooms, Tutorials, Seminar halls • Modernization of Laboratory & equipment • Library infrastructure up-gradation • Establishment of Virtual lab and networking • Functional facilities for e-learning • Safety & Security management • Medical facility • Developing sports (indoor/outdoor) and gymnasium facilities • Plantation • Rain water harvesting • Renewable Energy harvesting • Hygiene, solid waste management
		Getting University Status	• Resource planning & budget approval • Preparation of reports and submission
7.0		**STRATEGY IMPLEMENTATION AND MONITORING**	

After approval of the Strategic development plan by the Governing Body the next step is its implementation. The progress of strategy shall be measured from time to time. Hence the measurable success indicators are clearly spelt out in the implementation document. The Principal along with HODs will be the custodian for the strategic plan and its deployment.

Implementation at Institution

Governance & Administration	Director, College Development Committee
Statutory Compliance	Director, Principal, HODs and coordinators
Infrastructure	Director, Principal, HODs, coordinators and AO
Teaching- Learning	Principal, HODs, Faculty and staff
Research & Development	Principal, HODs, faculty and Dean, R&D Incharge
Students Development	Principal, HODs, Faculty
Career Guidance, training and Placement	TPO and HODs
Quality Assurance	Coordinator IQAC and IQAC Internal Team

7.1 Measurable Parameters during Implementation

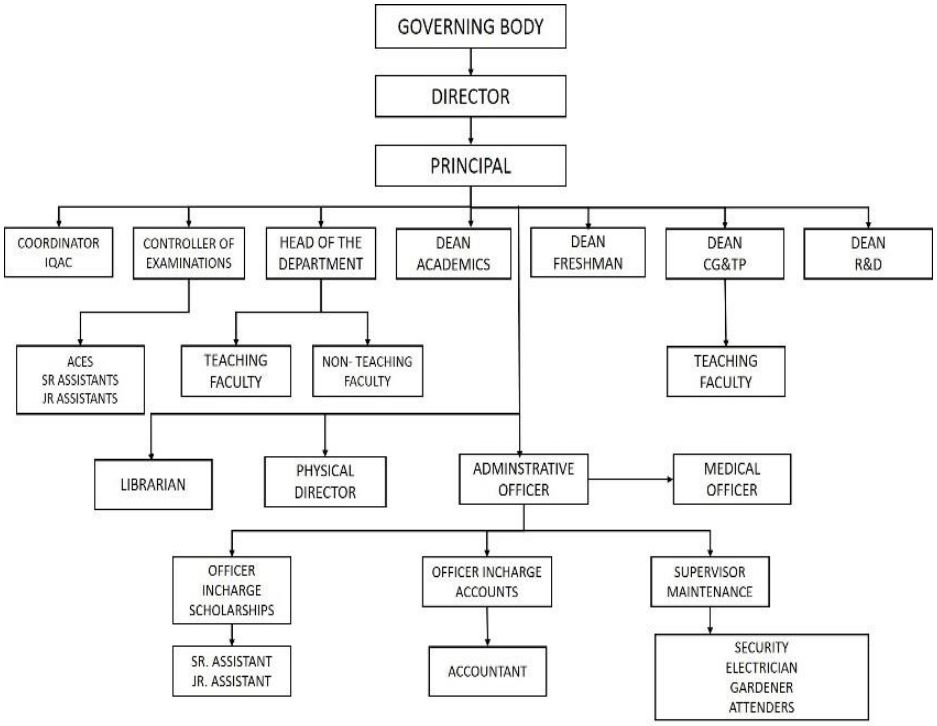
Ensuring good governance	• GB selection (Inclusion of Academicians & Industrialist) • Nos. of GB meetings/ Semester • Vision, Mission, Dissemination & Review • Organization structure in place • Degree of decentralization • Degree of e-Governance • Resource mobilization • Staff appraisal & career advancement scheme in place • Service rules & benefits
Establishing effective teaching learning process	• No. of student counseling/mentoring/training sessions conducted. • Results Committee meetings: Result of examinations (Pass, First classes, Distinctions) • Attainment levels outcomes

			• Alumni feedback
		Developingfinancial management	• Annual Budget forecasting, income & expenditure • Utilization / Allocation of funds • Internal & External Audit
		Emphasis on Industry – Institute interaction	• No. of active MOUs/Dept • No. of Initiatives/activities through MOUs • No. of IIIC meetings/year • No. of Initiatives/contributions by IIIC • No. of linkages
		Encouraging research and innovation work	• Publications in national/international • Journals and conference proceedings • No. of industry-based/ sponsored UG projects • No. of funded research projects • Patents filed • Conferences & workshops organized • New MOUs signed with academic and industrial organizations
		Ensuring student's development and participation	• Number of student participants in various activities • Number of prizes/awards won • Number of sports, technical, cultural events organized • Regional, National & International competitions participated
		Ensuring staff development & welfare	• Number of Staff attending training programs • Staff training programs organized • Number of memberships of professional bodies • Number of staff welfare programs • Staff awards/ recognitions/ incentives
		Increasing Alumni Interaction	• Alumni database and Number of interactions

			• Support for internships/placements/ projects/ consultancy • Contribution towards infrastructure development/financial assistance.
		Engagement in Community Services and Extension Activities	• Adoption of villages • Number of trainings/ awareness camps provided • Number of social projects undertaken • Number of Skill development programs for the weaker sections
		Developing physical infrastructure, conservation of natural resources and sustainability	• Number of buildings, classrooms added • New equipment added • Annual budget allocated & utilized • Renewable energy source development • Green initiatives • Number. of Volumes & Titles in library • Number of National& International journals • Number of e-learning resources (Moodle/ Google classroom/ NPTEL / Video lectures etc) • Digital Library • Smart Classroom • Advanced laboratories and Virtual laboratory
		Getting University Status	• Resource planning & budget approval

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

10.1.3.1	**Administrativesetup –Hierarchy**
	The college has a Well-laid administrative set up conforming to the norms of the AICTE and the UGC. The Principal wields the powers about financial and all academic and administrative matters including the conduct of examinations. Each of the departments has a head of the department who, in turn, assigns various tasks to different members of

	the faculty. For undertaking examination-oriented tasks, the Principal is the Chief Superintendent of Examinations. The Controller of Examinations is assisted by Assistant Controllers of Examinations. As far as the administrative functions are concerned, the Administrative Officer looks after the activities executed by clerical, programming, data entry and ministerial staff. The departments have their own respective department offices which function under the guidance of respective Heads of Departments. All the monetary transactions (both the receipts and payments) are processed through a nationalized bank. The faculty and students are involved in several administrative activities in addition to academic assignments. The involvement makes them develop a sense of belonging to the institution. Every funded project has a coordinator who is totally responsible along with his or her team. The Principal wields the financial power. On the whole, the members of the faculty and non-teaching staff of the college believe in the dignity of labor, and all the functions of the college are meticulously planned, properly coordinated and perfectly executed.  Fig. 10.1.3a: Administrative Hierarchy
10.1.3.2	**Governing body**

	KallamHaranadhareddy Institute of Technology is promoted by Kallam Academy of Educational Society (A.P. Societies Act 35 of 2001). Sri Kallam Mohan Reddy, President-KAES is a successful industrialist. The management works hard to ignite the spark in all the administrative works and support the academic activities. The Governing Body comprising members from the society, Nominee - APSCHE, Nominee - JNTUK, Industry representatives, Principal and senior faculty members conduct minimum of two meetings in an academic year and review the proceedings of the Academic Council meetings and implementation of the Institutional strategic plan. It directs the Principal to act and implement the decisions accordingly and the Principal takes the action plan to the faculty members. The development is being supervised by the governing body regularly. The Productive actions like the extension of the building, providing additional facilities, the introduction of new courses, the inclusion of new faculty, employing staff, student admissions, etc., are given much attention for the betterment of the administration. The management organizes periodic meetings with the staff members to review the quality policy and the development of the institution. It also arranges for the confidential evaluation of the teachers and the overall institutional performance by students, which is meticulously examined by the Principal to take necessary steps towards the growth of the institution. Income and expenditure are closely monitored by a Chartered Accountant and supervised by the Finance Committee and the management. **Functions of the Governing Body**: Subject to the existing provision in the bye-laws of the institution and the rules laid down by the state government/Affiliating University, the governing body of the institution shall meet twice a year to: • Guide the Autonomous College while fulfilling the objectives for which the College has beengranted autonomous status. • Institute scholarships, fellowships, studentships, medals, prizes, and certificates on therecommendations of the Academic Council • Approve new programmers of study leading to degrees and/or diplomas. • All recruitments of Teaching Faculty/Principal shall be made by the Governing Body/stategovernment as applicable in accordance with the policies laid down by the UGC and State Government from time to time. • Approval of the annual budget of the Autonomous College. • Perform such other functions and institute committees as may be necessary and deemed fit forthe proper development of the

Autonomous College.

Table B.10.1.3a: Members of the Governing body

S. No.	Name of the member	Position
1.	Sri KallamMohan Reddy Chairman – KallamAcademy of Educational Society	Chairman
2.	Sri P.Venkateswara Reddy MD – Kallam Spinning Mills Ltd	Member (Industrialist)
3.	Sri Poluri. Srinivasa Reddy Treasurer –KallamAcademy of Educational Society	Member
4.	Sri Kallam Hara Mohan Madhur Executive Member, KallamAcademy of Educational Society	Member
5.	Sri Hara Mohan BharadwajKallam Executive Member, KallamAcademy of Educational Society	Member
6.	Dr. M. Uma Sankara Reddy Executive Member, KallamAcademy of Educational Society	Member
7.	Sri. KallamNavya Administrative Officer, KHIT	Member
8.	Prof. B. Balakrishna Director of Evaluation, JNTUK-Kakinada	Member (State Govt. Nominee)
9.	Dr. V. Ravindra Professor of Civil Engineering UCEK, JNTU Kakinada	Member (University Nominee)
10.	Dr. G. Srinivasulu Dean – Freshman Engineering, KHIT	Member
11.	Dr. L. Shanmukha Rao Dean – Academics, KHIT	Member
12.	Dr. B S B Reddy Principal – KHIT	Member Secretary

10.1.3.3 **Academic Council**

The Board of Governors shall establish a body, known as the College Academic Council.

Functions of the Academic Council:

- To scrutinize and approve the proposals with or without modification of the Board of Studies with regard to courses of study, academic regulations, curricula, syllabi and modifications thereof, instructional and evaluation arrangements, methods, procedures relevant thereto, etc., provided that where the Academic Council differs on any proposal, it shall have the right to return the matter for reconsideration to the Board of Studies concerned or reject it, after giving reasons to do so.
- To make regulations regarding the admission of students to different programs of study in the Autonomous College, keeping in view the policy of the Government.
- To make regulations for sports, extra-curricular activities, and proper maintenance and functioning of the playgrounds and hostels.
- To recommend to the Governing Body proposals for the institution of new programs of study.
- To recommend to the Governing Body institution of scholarships, studentships, fellowships, prizes, and medals, and to frame regulations for the award of the same.
- To advise the Governing Body on suggestions(s) pertaining to academic affairs.
- To perform such other functions as may be assigned by the Governing Body.

Table B.10.1.3b:Members of the Academic Council

S.No	Academic Council Member	Designation of the Member
1	Dr. B. S. B. Reddy Principal-KHIT	Chairman
2	Dr. B. Balakrishna Director, Academic Planning, JNTUK Kakinada	University Nominee
3	Dr. G. Padmaja Rani Director of Evaluation, JNTUK, Kakinada	University Nominee
4	Dr. Ch. SaiBabu, Professor of EEE, UCEK, JNTUK, Kakinada	University Nominee
5	Sri P. Raghava Reddy, Whole Time Director, Sri Dhanalkshmi Cotton & Rice Mills	Expert member (Industry)

		Pvt. Ltd., Chilakaluripet, Guntur Dt.	
	6	Sri P.Koti Rao, Director, Tirumala Cotton & Agro Products Pvt. Ltd., Thimmapuram, EdlapaduMdl, Guntur Dist., A.P	Expert member (Industry)
	7	Sri Bhashyam Ramakrishna, Chairman, Bhashyam Educational Institutions, Guntur	Expert member (Academic)
	8	Dr. V. Raghurami Reddy, Pediatrician, Raghuram Childrens Hospital, Krishna Nagar, Guntur	Expert member (Doctor)
	9	Dr. M. Satish Kumar HoD - CE, KHIT	Member
	10	Dr. K. Harikrishna, HoD - EEE, KHIT	Member
	11	Dr. K. TejonadhaBabu HoD - ME, KHIT	Member
	12	Dr. S. Suryanarayana HoD - ECE, KHIT	Member
	13	Dr. V. Rajiv Jetson HoD - CSE, KHIT	Member
	14	Dr. Md. Sirajuddin HoD - IT, KHIT	Member
	15	Dr. A. S. Rao HoD - CSE (AI&ML), KHIT	Member
	16	Dr. G. Venkateswara Rao HoD - CSE (AI&DS), KHIT	Member
	17	Dr. G. Sreenivasulu Dean, Freshman Engineering, KHIT	Member
	18	Dr. Sk. Irshad HoD - Business Administration, KHIT	Member
	19	Mrs. Ch. ManjulaDeepthi HoD - Computer Applications, KHIT	Member
	20	Dr. B. Anupama HoD – English, KHIT	Internal faculty
	21	Dr. G. KishorBabu Convener – IQAC, KHIT	Internal faculty
	22	Dr.B.Lakshmi,	Internal faculty

	HoD - Chemistry, KHIT	
23	Dr. P. L. Madhava Rao, Head – CGTP Cell	Internal faculty
24	Dr. L. Shanmukha Rao CoE and Dean, Academics KHIT	Controller of Exams
25	Mr. P. SurendraBabu, ACE4, KHIT	Member Secretary

10.1.3.4	**Board of Studies**

The Academic Council shall establish respective Board of Studies.

Functions of Board of Studies:

The Board of Studies shall recommend the following to the Academic Council:

- Courses of studies;
- Measures for the improvement of the standards of teaching and research
- Any other academic matter

Table B.10.1.3c:Board of Studies – Electrical and Electronics Engineering

S.No	BOS, Hierarchy	Name, Designation of the Member & Affiliation
1	Chairman	Dr. K. Hari Krishna Professor & HOD / EEE, KHIT. harikrishnaketha81@gmail.com 9849048409
2	University Nominee	Dr. Y.S. Kishore Babu Professor of EEE & HOD, UCEN, JNTUK, Narasaraopet. yskbabu@gmail.com, 9440518404
3	Subject Expert (Academic)	Dr. I. Satish Kumar, Assistant Professor, EEE Department, NIT Warangal, Telangana. drinjetisatishkumar@nitw.ac.in 9581371537
4	Subject Expert (Academic)	Dr. G. Srinivasa Rao Professor, EEE Department, Vignan,s Foundation for science, Technology & Research(Deemed to be University), Vadlamudi, Guntur. hodeee@vignan.ac.in, 8247759924
5	Subject Expert (Industry)	Mr. V. Srinivasa Rao ADE, CAM, RTPP, Kadapa. srinivasarao.vasadi@gmail.com 9493121213
6	Alumni/Co-opted member	Mr. J. Sunil Babu Assistant Professor, EEE, KHIT. sunnyjoybennymarry@gmail.com , 9505551561
7	Senior Faculty	Dr. L. Shanmukha Rao Professor, EEE, KHIT. lsrlingineni@yahoo.co.in 9440372593

8	Coordinator	Dr. G. Kishor Babu, Professor, EEE, KHIT. kish.eee01@gmail.com 9849933405

Table B.10.1.3d:Board of Studies – Mechanical Engineering

S.No.	BOS, Hierarchy	Name, Designation of the Member & Affiliation
1	Chairman	Dr. K. Tejonadha Babu, Professor & HOD, Department of Mechanical Engineering Kallam Haranadhareddy Institute of Technology-Guntur
2	University Nominee	Dr. K. Dileep Kumar, Assistant Professor, Dept. of Mechanical Engineering, UCEK, JNTUK, Kakinada.
3	Subject Expert (Academic)	Dr.K.Kiran Kumar, Professor, Department of Mechanical Engineering,National Institute of Technology, Warangal
4	Subject Expert (Academic)	Dr. Bandaru Sateesh Professor, Department of Mechanical Engineering, Vignan's Institute of information Technology, Duvvada, Visakhapatnam
5	Subject Expert (Industry)	Er.Vamsi Tiruveedhula, Senior Project Manager,Engineering Operations,Belcan India Pvt.Ltd.,Hyderabad
6	Alumni	Mr.B.Parameswara Rao Engineering Assistant Gr-II, Gudipudi(V),Sattenapalli(Mand.),Guntur(Dt.)
7	Coordinator	Mr. Raju Goodelly, Assoc. Professor, Department of Mechanical Engineering Kallam Haranadhareddy Institute of Technology-Guntur
8	Senior Faculty Member	Dr.Ch.Srinivasa Rao, Professor, Department of Mechanical Engineering Kallam Haranadhareddy Institute of Technology-Guntur

Table B.10.1.3e:Board of Studies – Electronics & Communication Engineering

S.No.	BOS, Hierarchy	Name, Designation of the Member & Affiliation
1	Chairman	Dr. S.Suryanarayana, Professor & HOD,Department of ECE Kallam Haranadhareddy Institute of Technology-Guntur
2	University Nominee	Dr.P.Vinay Kumar, Assistant Professor, Dept. of ECE, UCEK, JNTUK, Kakinada.
3	Subject Expert (Academic)	Dr. D.Vakula, Professor, Dept of ECE, NITW, Warangal
4	Subject Expert (Academic)	Dr.K.Srinivas Rao, Professor, Dept of ECE,KLU, Vijayawada
5	Subject Expert (Industry)	Mrs. N.Varalakshmi, Scientist –F, DRDL, Hyderabad
6	Alumni	Mr. Vanga Manoharreddy, Sr. Cloud Engineer, CBRE
7	Coordinator	Dr. J.V.K. Ratnam, Professor, Dept. of ECE
8	Senior Faculty Member	Dr.K.Srilatha, Associate Professor, Dept. of ECE

Table B.10.1.3f:Board of Studies – Computer Science and Engineering

S.No	BoS Hierarchy	Name, Designation of the Member & Affiliation
1.	Chairman	Dr.V.Rajiv Jetson, Professor & Head, Department of CSE, KHIT. Email:hod-cse@khitguntur.ac.in Mobile No:9849032003
2.	University Nominee	Dr. L.Sumalatha,Professor, Department of C.S.E, UCEK, JNTUK Email: sumapriyatham@gmail.com Mobile No: 9502661429
3.	Outside Expert (Academic)	Dr R B.V.Subramaanyam Professor, CSE Department, National Institute of Technology, Warangal. Email:rbvs66@gmail.com,rbvs66@nitw.ac.in

		Mobile No: 949 134 6969 ,9441 434 454
4.	Outside Expert (Academic)	Dr.D.Rajesh, Associate Professor, Department of C.S.E, VIT-AP University, Andhra Pradesh Email: rajesh.duvvuru@vitap.ac.in Mobile No: 9966720920
5.	Industry Expert (Industry)	Mr T N V Gopi, Principle Software Engineer, OLA,Bangalore Email: neela.venkata@olacabs.com Mobile No:9642248136
6.	Alumni Member	Mr J HariPurushotham, Meritorious PG alumni Innominds Software Services, Hyderabad Email:jamilihari@gmail.com Mobile No:9248372321
7.	Senior Faculty	Dr. B. Tarakeswara Rao, Professor, Department of CSE, KHIT Email:tarakesh7199@gmail.com Mobile No:9441045755
8.	Coordinator	Dr K Vamshi Krishna, Associate Professor, Email:kvkr208@gmail.com Mobile No:8143260297 Department of CSE, KHIT

Table B.10.1.3g:Members of the Board of Studies – Information Technology

S.No	BoS Hierarchy	Name, Designation of the Member & Affiliation
1.	Chairman	Dr.MD. Sirajuddin Professor & Head, Department of I.T, KHIT.
2.	University Nominee	Dr. K. Sahadevaiah Professor,Department of C.S.E, UCEK, JNTUK Email: kuncha1868@gmail.com Mobile No: 9502661429
3.	Outside Expert (Academic)	Dr. Rashmi Ranjan Rout Professor, Department of C.S.E, National Institute of Technology,

			Warangal. Email: rashrr@nitw.ac.in Mobile No: 8332969418
	4.	Outside Expert (Academic)	Dr. Nagaraju Devarakonda Professor,Department of C.S.E, VIT-AP University, Andhra Pradesh Email: nagaraju.devarakonda@vitap.ac.in Mobile No: 9441176913
	5.	Industry Expert (Industry)	Mr. Ravi Teja Putchakayala Senior Consultant-SAP, Deloitte, Hyderabad. Email: writetoteja.sap@gmail.com Mobile No: 9966004474
	6.	Alumni Member	Ms. TelaganetiNandini Email: telaganetinandini@gmail.com Mobile No:7893605367
	7.	Senior Faculty	Dr.K.Sivaramaprasad, Associate Professor, Department of I.T, KHIT
	8.	Coordinator	Mr.K.R.M.C Sekhar, Assistant Professor, Department of I.T, KHIT

10.1.3.5	**Staff Selection Committee**
	Objective: The main objective of the Staff Selection Committee is to evaluate the requirement of staff for the college and plan accordingly to recruit adequate qualitative faculty on merit. **Functions:** • This Committee is in-charge of the recruitment process, including the recruitment seminar and it makes recommendations to the Chairman regarding the recruitment of individual faculty members. • To determine ways and means to stimulate, support and improve continuing faculty intellectual development and renewal, and faculty involvement in academic and professional organizations. • To develop the policies and practices needed to conduct an annual monitoring of faculty intellectual contributions to ensure that consistency and continuity of effort occurs in areas appropriate to the mission of the College. • To develop criteria that assure those faculty members who possesses sufficient academic and professional qualifications. • To review and improve the orientation and mentoring program for

new faculty.

- The Committee Chair shall submit an annual report of committee activities to the Chairman of the College.

Table B.10.1.3h:Members of the Staff Selection Committee

S.No.	Name of the member	Designation	Position
1	Sri. Kallam Mohan Reddy	Chairman	Chairman
2	Dr. M. Uma Sankara Reddy	Director	Member
3	Dr. B. S. B. Reddy	Principal	Member-Secretary
4	Head of the Departments	HOD	Member
5	Subject Expert (Internal)	Professor	Member
6	Subject Expert (External)	Professor	Member

10.1.3.6 **Career Guidance, Training and Placement Committee**

The committee is a partner in the Career Advancement of students to

- Know the Industry Requirements and analyze the opportunities
- Ensure that there is consistency and Quality Assurance in the management and administration of the placement process in the College
- Achieve placements based on educational outcomes
- Prepare the final placement requirement list
- Be a facilitator of the recruitment process
- Chalk out plans to enhance the employability of students
- Implement programs to develop competencies among students for placements
- Enable placements for all students participating in the process
- Strengthen relationships with Recruiters
- Get more companies to KHIT
- Fulfill talent requirements for recruiting companies
- Manage a streamlined Placement process, considering the interests of the Recruiters, Students and the Institution
- Create awareness among 1st, 2nd and 3rd year students about placements.

Table B.10.1.3i:Members of the CGTP Committee

S. No.	Name	Position & Designation
1	Dr. B. S. B. Reddy	Chairman – Principal
2	Dr. P.L. Madhava Rao	Convenor - Dean, CGTP Cell

		3	Dr. B. BinduMadhavi	Co-ordinator
		4	Mr.K.Mohana Krishna	Placement Associate - ECE
		5	Mr. M. ManthruNaik	Placement Associate - CSE
		6	Mr. J. Sunil Kumar	Placement Associate - EEE
		7	Mr. M. Jugal Kishore	Placement Associate - CE
		8	Mr. Sk. Meeravali	Placement Associate - ME
		9	Mr. B. V. V. H. Chandra Sekhar	Placement Associate - IT
		10	Mr. E. Samba Siva Rao	Placement Associate - AIML
		11	Mr. R. Ananda Babu	Placement Associate - AIDS
		12	Mr. Y. Siva Naga Raju	Placement Associate - DS

10.1.3.7 **Library Committee**

The Library Committee exists to support educational programs through research into areas such as core competencies and trends in the delivery of education, and to recommend the development of programs focused on emerging topics of interest and concern to the library community. In addition to the goals and objectives, the committee shall also explore the following:

- To encourage and promote competencies as a base for the development of training within the organization and to adapt and use them for staff and library development.
- To conduct a comprehensive survey of how the students are using the core competencies and their awareness of them.

Functions:

- The library committee is responsible for the proper maintenance of the college library.
- The convener is responsible for properly administrating the library grants in consultation with the Library Committee.
- The committee with the consultation of the Principal, will allot funds to the various subject departments of the college.
- The committee shall frame the rules and get the approval of the Principal regarding the issue of the books, the time limit for the return of books and number of books to be issued to students and staff.
- The committee in consultation with the Principal, will fix the fine to be collected from the students for late returning, damaging, bad condition, tearing papers, losing the book(s) etc.
- The committee is accountable to the Principal, regarding all the matters concerning the library.

- The committee should oversee that every student and staff member should surrender the book collected from the library before the final examinations. Halltickets shall be issued only after getting the NOC from the library by the student.

Table B.10.1.3j:Members of the Library Committee

S.No.	Name of the Staff	Designation	Position
1	Dr. B. S. B. Reddy	Principal	Chairman
2	Dr. K. Hari Krishna	Professor&HoD, EEE	Convener
3	Mr. K. Showri Babu	Librarian	Coordinator
4	Mr. B. Anil Kumar	Asst. Librarian	Member
5	Mr. M. Jugalkishore	Assoc. Prof, CE	Member
6	Mr. V. Nageswara Rao	Assoc. Prof., ME	Member
7	Dr.B.Ananda Krishna	Professor, ECE	Member
8	Dr. Md. Umar Khan	Professor,CSE	Member
9	Dr. S. Rama Krishna Reddy	Professor, S&H	Member
10	Dr. J. Veera Kumar	Asst.Prof., S&H	Member

10.1.3.8 Research & Development Committee

This committee plays a pivotal role in motivating the students and faculty to have a research bent of mind.

Functions:

- Identifies the cutting edge technologies and also the advanced areas in all branches having good job potentiality in the coming years.
- Encourages students to take up real industrial projects and also guides the faculty to take up consultation work.
- Maintains close relationships with professional bodies and promotes the publication of papers in reputed National & International journals.
- Organizes National & International conferences on the latest themes, cheers up the Faculty & Students for their participation.
- Evaluates the startup ideas, helps in their incubation and transforms such of those ideas having commercial viability to manufacturing process.

Table B.10.1.3k:Members of the R & D Committee

S. No.	Name of the member	Designation	Position
1	Dr. B. S. B. Reddy	Principal	Chairman
2	Dr. Ch. Srinivasa Rao	Dean, R & D	Convener

	3	Dr. M. Satish Kumar	HOD, CE	Member
	4	Dr. K. Hari Krishna	HOD, EEE	Member
	5	Dr. K. TejonadhaBabu	HOD, ME	Member
	6	Dr. S. Suryanarayana	HOD, ECE	Member
	7	Dr. V.RajivJetson	HOD, CSE	Member
	8	Dr.Sirajuddin Mohammed	HOD,IT	Member
	9	Dr. A. S. Rao	HOD, AI&ML	Member
	10	Dr. G. Venkateswara Rao	HOD, AI&DS	Member
	12	Dr.G.Srinivasulu	Dean, Freshman	Member
	13	Dr.Sk.Irshad	HOD,MBA	Member

10.1.3.9 **IQAC**

Internal Quality Assurance Cell: The institution has an active Quality Advisory Cell (QAC) and Internal Quality Assurance Cell (IQAC) to frame the policy for the academic and administrative growth of the institution.

- IQAC plays a major role in designing and maintaining quality assurance within the academic systems.
- It monitors the proper implementation and analysis of the overall academic and administrative performances of the college activities.
- The cell supports the teaching and learning goals articulated in the institution's strategic plan.
- As the institution has grown in size and stature, it has evolved certain quality assurance measures keeping in mind the academic and administrative requirements.
- In this regard, a manual on teaching and working has been prepared by Professor-in-charge, IQAC.

Some of the measures are –

- IQAC ensures maximum utilization of infrastructural facilities and the available ICT resources.
- Based on academic audit, a comprehensive review of student performance is made by IQAC.
- IQAC ensures the proper implementation of the academic calendar.
- Regular meetings of IQAC and QAC are conducted to discuss various measures related to quality enhancement in which the recommendations made by the Planning and Evaluation Board, Board of Studies, Academic Council and Governing Body are discussed and analyzed for further improvement.

- As per the suggestion of the IQAC, a feedback analysis committee has been formed to review the online and offline feedback received from students.
- The Appraisal report of teaching and non- teaching staff is received in the form of FPA and after being evaluated by the Head of the Institution it is forwarded to the higher authorities.
- Attendance registers and daily teaching diaries are duly maintained and checked.
- IQAC reviews the feedback received from the parent-teacher Meetings.
- Introduction of new Courses including Postgraduate and Add-on Courses
- Introduction of UGC Community College Scheme
- Automation of the Library and its facilities.
- Strengthening of Library.
- Improvement in student supporting systems.
- Organizing seminars, conferences and workshops at different levels
- Extension and up gradation of Classrooms and Laboratories
- Inculcating ICT based Teaching-learning process
- IQAC has played an important role in implementing NAAC Peer Team recommendations.
- The IQAC monitors the well-being of the college in all respects.

Table B.10.1.3l:Internal Quality Assurance Cell

S.No.	Name of the member	Designation	Position
1	Dr. B. S. B. Reddy	Chairperson	Chairman
2	Dr. G. KishorBabu	Coordinator	Convener
2	Dr. M. Uma Sankara Reddy	Management Member	Member
3	Sri. P. Venkateswara Reddy	Nominee – Industrialist	Member
4	Sri. K. H. M. Bharadwaj	Nominee – Alumni	Member
5	Mrs. K. Navya	AO	Member
6	Sri. Y. Suresh Reddy	Office Superintendent	Member
7	Dr. M.Satish Kumar	HOD, CE	Member
8	Dr. K.Hari Krishna	HOD, EEE	Member
9	Dr. K.TejonadhaBabu	HOD, ME	Member
10	Dr. S. Suryanarayana	HOD, ECE	Member
11	Dr. V.Rajiv Jetson	HOD, CSE	Member
12	Dr.Sirajuddin Mohammed	HOD,IT	Member
13	Dr. A. S. Rao	HOD, AI&ML	Member

	14	Dr. G. Venkateswara Rao	HOD, AI&DS	Member
	16	Dr.G.Srinivasulu	Dean, Freshman	Member
	17	Dr.Sk.Irshad	HOD,MBA	Member
	18	Dr. E. Srinivasa Reddy	Nominee – Academician	Member
	19	Ms.GovinduSravya(18X1A0206)	Student	Member

10.1.3.10	**Entrepreneurship Development Cell**
	Entrepreneurship Cell is to nurture students in various innovation and entrepreneurship-related activities such as ideation, problem-solving, design thinking, IPR at the pre-incubating/incubation stage, etc., so that innovation and entrepreneurship system get established and stabilized in the institution. We're well connected with other agencies involved in entrepreneurship and innovation like the Institution's Innovation Council (IIC). It assists every aspiring entrepreneur on every single step and promotes and revitalizes the entrepreneurial culture in the institution. The Cell's vision is to create an entrepreneurial ecosystem that provides a platform for individuals with creative minds and potential ideas for substantial business opportunities and encourages them to consider entrepreneurship and start-up as a career option. **FUNCTIONS of EDC:** • To conduct various innovation and entrepreneurship-related activities prescribed by MIC in time bound fashion • To create Pedagogy and Learning Interventions for Entrepreneurship Development which includes interdisciplinary learning using mentors, labs, case studies, games, etc. in place of traditional lecture-based delivery • To create awareness amongst students about the National Innovation and Start-up Policy, Angel Investing, Business Model Canvas etc., • To focus on Thrust Areas in various disciplines • To identify and reward innovations and share success stories • To organize periodic workshops/ seminars/ interactions with successful entrepreneurs, investors, professionals and create a mentor pool for student innovators • To develop a Network with peers and national entrepreneurship development organizations like NI-MSME, Startup India, Invest India, MeitY etc., • To create an Institution's Innovation portal to highlight

innovative projects carried out by the institution's faculty and students

- To develop a Start-up/Entrepreneurship-supporting Mechanisms in HEIs
- To encourage students to intern with the startups incubated in any recognized incubator while studying.
- To help in linking the startups to other seed-fund providers/angel funds/ venture funds or itself may set up a seed-fund once the incubation activities mature
- To conduct an induction program about the importance of I&E so that freshly inducted students are made aware ofthe entrepreneurial agenda of the institute and available support systems
- To promote entrepreneurial culture among women students and faculty members to set up innovative startup ventures.

Table B.10.1.3m: Entrepreneurship Development Cell

S. No.	Name	Designation	Position
1	Dr. B. S.B. Reddy	Principal	Chairman
2	Dr. K. Sivarama Prasad	President, IIC	Convener
3	Dr. P. L. Madhava Rao	Dean – CGTP Cell	Member
4	Dr.J. VeeraKumar	Associate Professor,S&H	Member
5	Mr. P. ShyamKumar	Assistant Professor,MBA	Member

10.1.3.11 **Industry – Institute Interaction Cell**

Industry – Institute Interaction Cell: An active Industry Institute Interaction Cell (III Cell) has been functioning in the College. The function of the Cell is to promote closer interaction between the academic field and the professional field. The Cell is established to provide closer links with industries. The purpose of the cell is to find out the gap between the need of the industry and the end product of the institute. The cell is the bridge between the industry, the real world and the institute. III Cell coordinates in liaison with industry-oriented persons to invite them to offer partial delivery of the course content to the students. Industrial exposure of the Faculty is very much helpful to guide the students about the latest industrial practices.

Functions of III Cell:

- To give industrial exposure to faculty members and students, thus enabling them to tune their knowledge
- To cope with the industrial culture
- To assist the departments in organizing workshops, conferences

and symposia with joint participation of the industries

- To encourage Engineers from industries to visit the institution to deliver lectures
- To promote the Participation of experts from industries in the curriculum development
- To organize industrial visits for faculty members and students
- To encourage faculty members to use their expertise in solving the problems faced by the industries, thus creating opportunities for consultancy
- Industrial testing by faculty and technicians at the site, or in the laboratory
- To organize in-plant training for students
- To identify the areas for executive development programs in the areas of recent technological advances
- To assist the Departments in establishing rapport with industries for taking up mini projects and projects
- To coordinate/ identify industrial partners for proposing the 'Centre for Excellence'.
- To strengthen Alumni relations
- To assist the Training and Placement Division
- To sign a Memorandum of Understanding between the institute and the industry to bring the two sides emotionally and strategically closer
- R&D Laboratories sponsored by industries at the institute

Table B.10.1.3n:Members of Industry Institute Interaction Cell

S.No.	Name of the member	Designation	Position
1	Dr. B. S. B. Reddy	Principal	Chairman
2	Dr. P. L. Madhava Rao	Dean, CGTP Cell	Convener
3	Mr. Kallam Mohan Reddy	President, Kallam Group	Member
4	Mr. P. Venkateswara Reddy	Vice – President, Kallam Group	Member
5	Dr. M.Satish Kumar	HOD, CE	Member
6	Dr. G.KishorBabu	Professor, EEE	Member
7	Dr. K.TejonadhaBabu	HOD, ME	Member
8	Dr. S. Suryanarayana	HOD, ECE	Member
9	Dr. V.Rajiv Jetson	HOD, CSE	Member
10	Dr.Sirajuddin Mohammed	HOD,IT	Member
11	Dr.Sk.Irshad	HOD,MBA	Member
12	Ms. G. Sravya(18X1A0206)	Student	Member
13	Mr. K. Durga	Student	Member

		Prasad(228X1A014)		

10.1.3.12 **Outreach Committee**

NSS Unit of KallamHaranadhareddy Institute of Technology bearing unit code: 90214704 is sanctioned by the affiliating University JNTUK, Kakinada, in 2017. NSS unit –KHIT receives funding from JNTUK, Kakinada on an annual basis for organizing regular as well as special camps. The NSS unit KHIT organizes various service activities by utilizing funds sanctioned by the University.

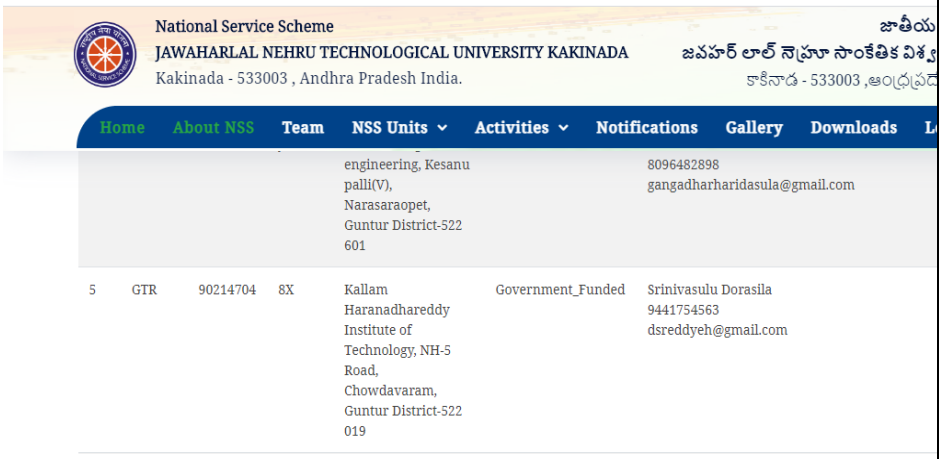


Fig.10.1.3b: NSS Unit-University Dashboard showing Institute

The Program Officer is one of the important persons in the NSS Organization, he/she plays a pivotal role and is responsible for the organization of NSS Unit, implementation of the NSS Program under the supervision and direction of the Chairman and the Principal of the College. He will be responsible for carrying the instructions issued by the Program Coordinator of the University. NSS Regional Centre and State Liaison Officer for the implementation of NSS activities as per the Action Plan given by the Program Coordinator, the Program Officer plays the role of an organizer, an educator, a motivator, a coordinator, a supervisor, an administrator, and public relation officer to improve the quality and magnitude of NSS Program in their institutions/ colleges. His/her functions can be stated as under.

As an Organizer:

- To interpret the scheme to the students / volunteers and other members of the college community and create awareness about the NSS Program.
- To provide information about the NSS motto, aims and objectives, philosophy and activities.
- To enlist cooperation and coordination of community agencies, government departments and non-governmental

agencies.

- To select or adopt a village/slum for service projects based on utility and feasibility.

As an Administrator:

- He is to keep the Principal or the Chairman of NSS, College Advisory Committee and the Program Coordinator of the University informed of the University informed of the program of the Unit.
- To run day-to-day administration of the program.
- To attend correspondence regularly between the college and the university.
- To prepare a progress report periodically for submission to the college and the university.
- To maintain a record of volunteer participation and the program undertaken.
- To keep accounts and stock in the prescribed forms.

Table B.10.1.3o: Members of Outreach Committee

S.No.	Name of the member	Designation	Position
1	Dr. B. S. B. Reddy	Principal	Chairman
2	Mr. D. Srinivasulu	Assoc. Prof, ME	Program Officer
3	Mr. Ch. Samsonu	Assoc. Prof, CSE	Member
4	Dr. J.V.K. Ratnam	Professor, ECE	Member
5	Dr. P. P. Sharma	Professor, EEE	Member
6	Mr. I. Rama Koteswararo	Asst. Prof, ECE	Member
7	Mrs. V. Revathi Devi	Assoc. Prof, S & H	Member

10.1.3.13 **Frequency of the Meetings and Attendance:**

Table B.10.1.3p: Frequency and Attendance in the Committee Meetings

S.No.	Type of Meeting	Membership	Frequency of meeting	Dates of Meeting	Members Attended
1	Governing Body	12	Half Yearly	25-10-2024 22-07-2023 01-09-2022	12 12 12
2	Academic Council	25	Half Yearly	22-06-2024 11-12-2023 18-07-2023 03-12-2022	25 25 25 25

					17-04-2021	25
	3	BoS	8	Half Yearly	31-07-2024 04-11-2023 15-07-2023 29-08-2022 16-11-2021 03-04-2021	8 8 8 8 8 8
	4	Staff Selection Committee	6	When and where necessary	10-03-2023 09-03-2023 18-07-2022 07-03-2022 16-09-2021	6 6 6 6 6
	5	CGTP Committee	12	Half Yearly	09-11-2024 11-05-2024 09-12-2023 08-07-2023 05-12-2022 14-02-2022	12 12 12 12 12 12
	7	Library Committee	10	Half Yearly	09-11-2024 11-05-2024 09-12-2023 08-07-2023 05-12-2022 14-02-2022	10 10 10 10 10 10
	8	R&D Committee	13	Half Yearly	09-11-2024 11-05-2024 09-12-2023 08-07-2023 05-12-2022 14-02-2022	13 13 13 13 13 13
	10	Internal Quality Assurance Cell	12	Half Yearly	11-01-2025 13-07-2024 09-12-2023 08-07-2023	12 12 12 12
10.1.3.14	**Service Rules, Procedures, Recruitment and Promotional Policies**					

A. SERVICE RULES

1.1 General

These rules shall be called as "KHIT Service Rules". These rules apply to all employees, in the service of KHIT, Guntur. The Governing Body of "KHIT", Guntur hereinafter called "GB" reserves the exclusive right, at any time hereafter and without notice, to amend, alter, modify, add or delete any provision(s) to all or any of these service rules, from time to time and, to bring such amendments, alterations, modifications, additions, deletions into effect from a date to be notified by the "GB". Such amendments, alterations, modifications, additions, deletions if any shall become binding on all the employees covered by these service rules from the date of their notification by the "GB". The Chairman "GB" shall have the exclusive power to clarify any issue or to remove any doubt relating to these "Service Rules" and/or their implementation.

1.2 Definitions

The **KAES** means "**Kallam Academy of Educational Society"** registered under the Andhra Pradesh Registration of Societies Act 35 of 2001 with its headquarters located at KHIT, Guntur and bearing Society No. 24/2006 dated 17thJanuary, 2006, which is responsible for the establishment and management of KHIT, Guntur. The Institute means "KHIT" and its sections, wings, departments and centers at Guntur or any other location in India, established or managed by **KAES (Regd.).**

The "GB" means the Governing Body of "KHIT, Guntur" which has been constituted in accordance by the provisions laid down in this respect by theAll India Council of Technical Education. The Chairman of the "GB" shall be a member of **KAES.**

"Employee" includes all employees, without exception performing whatever function assigned to him/her.

"AICTE" stands for All India Council of Technical Education, which is an autonomous body of Ministry of HRD, Government of India.

"Affiliating University" means the JNTUK, Kakinada responsible for according affiliation to the KHIT, Guntur.

1.3 Code of Conduct

1.3.1 Application

The provisions contained in this schedule shall apply, without exception, to all employees of the Institute. Every employee of the Institute shall be governed by the Code of Conduct, as specified herein and every employee, without exception shall be liable to strict disciplinary action, including suspension and or termination, for the breach of any provision(s) of the Code of Conduct. The Principal shall initiate disciplinary proceedings for non-compliance of any employee

	related to the code of conduct/service rules/leave rules or any other rules of the Institute that may be in force from time to time and shall have the power to appoint an enquiry officer(s) to conduct an inquiry into the charges against such an employee. **1.3.2 General Guidelines** • Every employee should always maintain absolute integrity and devotion to duty, and also be strictly honest and impartial in his / her official dealings. • An employee should at all times be courteous in his / her dealings with other members of the staff, students and members of the public. • An employee shall be required to observe the scheduledhours of work, as may be notified from time to time, during which he/she must be present at the place of his/her duty. Unless and otherwise stated, all employees of the Institute are required to work effectively for at least 42 hours per week. • Except for valid reasons and/or unforeseen contingencies no employee shall absent himself/herself from duty without prior permission of the designated authority. • No employee shall leave station except with the prior permission of the designated authority. • All employees are expected to be exemplary in public and private life. Their loyalty, sense of dedication and integrity should alwaysbe a model and inspiration to the youth and other learners. • All employees are expected to behave according to the ideals of national integration showing love, concern and respect to all without any discrimination whatsoever of caste, religion or community. Any act or speech against this rule will be considered as a serious breach of discipline. • Every employee shall strive to instill in the students under his/her care a high sense of values, social conscientiousness, and Pride for their Institute and loyalty to the country. It is the sacred duty of all employees to work for the intellectual, moral, social and physical development of all the students. • Consumption or distribution of alcohol, drugs or any other intoxicant including smoking by whatsoever name called, by an employee within the Institute's premises, is strictly prohibited. Attending the college in aninebriated condition will be considered as a serious breach of discipline. • All correspondence addressed to an employee or by him/her or by the Institute including press and other such copies of correspondence, all vouchers, books including all notebooks

containing all notes or records or prices or other data and apparatus, samples and/or other goods belonging to the Institute, circulars and all other papers and document of any nature whatsoever, relating to the Institute's affairs which shall come into his/her possession in the course of his/her employment, shall be the absolute property of the Institute and he/she shall, at anytime, during service or termination thereof or upon his/her leaving the services of the Institute for any reason whatsoever deliver up the same to the Institute on demand and without claiming any lieu thereon.

- An employee shall receive all correspondence sent to him/her by KHIT and not refuse to receive it. Any such correspondence shall be deemed to have been served to him/her in the event of refusal or non-availability. It is the responsibility of the employee to ensure that the home address/telephone number, etc. are kept up to date in the office of the college.
- Employees shall only be relieved from their duties upon resignation, etc. at the end of the semester or upon fulfillment of their notice period whichever is later. For this purpose, end of semester shall be defined as the time when all attendance, marks, project evaluations etc. have been evaluated and submitted to the appropriate office.

1.3.3 Guidelines for Faculty Members

No Faculty Member is supposed to**:**

- Knowingly or willfully neglect his/her duties.
- Propagate through his/her teaching lesson or otherwise, a communal or sectarian outlook, or incite or allow any student to indulge in communal or sectarian activities.
- Discriminate against any student or any other person on grounds of caste, creed, sex, language, place of origin, social and cultural background, etc.
- Indulge in or encourage any form of malpractice connected with the examination or any other activity of the Institute.
- Show negligence in valuation of assessments or exam work of the students.
- Accept or give private tuition to any student of the Institute or any other person without the written permission of the Institute Governing Body.
- Hesitate to provide individual attentionto a student(s), if required. Besides academic problems, teachers are encouraged to solve personal and behavioral problems of student(s) as well.

1.3.4 Every Employee Shall:

- Be punctual in attendance and in respect of his/her class-work

	and also for any other work connected with the duties assigned to him/her by the Principal/ Head of the Department. • Abide by the rules and regulations of the Institute and also show due respect to his/her higher authority. • On every working day sign the staff attendance register, and be ready at least, five minutes before the commencement of classes. • Be responsible for the discipline of the students even outside the classrooms. Since supervision during the break or off time is vital for the protection of the property of the Institute, employees may, from time to time, be allotted such duties to maintain discipline and orderliness at the Institute. • Be responsible for disciplining students even outside the classrooms. Since supervision during breaks/off-hours is vital for protecting institute's property, employees may time-to-time, be allotted such duties to maintain discipline and orderliness on the campus. • Be responsible for disciplining students even outside the classrooms. Since supervision during breaks/off-hours is vital for protecting institute's property, employees may time-to-time, be allotted such duties to maintain discipline and orderliness on the campus. • Train the students to make extensive use of the library facilities and to take care of the property of the Institute including books, journals, equipment and machinery, furniture, fixtures and fittings. • Ensure that no student(s) indulge in ragging, canvassing and/or cause harassment of any kind to other student(s) by whatever name called, it isstrictly prohibited under law. • Not through any act of omission or any form of speech etc. disturb or deviate, in any manner whatsoever, the peace, dignity and harmony of the Institute. **1.3.5 Taking Part in Politics and Elections** • No employee shall take part in politics or be associated with any party or organization thattakes part in political activity, nor shall he / she subscribe and aid or assist in any manner any political movement or activity. • No employee shall canvass or otherwise interfere or use his influence in connection with or take part in any election to a legislative body or local authority. **1.3.6 Connection with press or radio or patents** • No employee shall, except with the prior sanction of the GB own wholly or in part, or conduct, or participate in the editing

	or managing of any newspaper or other periodical publications. • No employee shall, except with the prior sanction of the GB or any other authority empowered by him/heron this behalf, or in the bonafide discharge of his/her duties, participate in a radio broadcast or contribute any article or write any letter either unanimously or in his/her nameor the name of any other person to any newspaper or periodical. • Provided that no such sanction shall be required if such broadcast or such contribution is as a purely literary, artistic or scientific character. **1.3.7 Criticism of the Institute** • Criticism of any kind in radio broadcast or in any document published unanimously or his/her name or the name of any other person or any communication to the press or in any public utterance will be viewed seriously. **1.3.8 Unauthorized Communication of Information** • No employee shall, except by any general or special order of the Principal or the performance in good faith of the duties assigned to him/her, communicate, directly or indirectly, any official document or information to any person to whom he/she is not authorized to communicate such document or information. • During the term of his/her employment with the Institute, or at any time thereafter, an employee shall not use or disclose to any other society, firm, organization or person any information concerning the affairs of the Institute, or countenance any act prejudicial to the interest of the Institute. **1.3.9 Private Trade Employment** • No employee shall engage directly or indirectly, in any trade or business or any private tuition or undertake any employment outside his official assignments. • Provided that the above restrictions shall not apply to academic work and consultative practice undertaken with the prior permission of the Principal which may be given subject, to as regards acceptance of remuneration, as may be laid down by the"GB". **1.3.10 Insolvency, Habitual Indebtedness and Criminal Proceedings** • An employee shall so manage his/her private affairs as to avoid habitual indebtedness or insolvency. When an employee is found liable to arrest for debt or has recourse to insolvency or when a moiety of his/her salary is continuously being attached, he/she may be liable to dismissal. An employee who becomes the subject of legal proceedings for insolvency shall forthwith

report full facts to the Institute.

- An employee who gets involved in criminal proceedings shall immediately inform the Principal through the Head of Department to which he/she is attached, irrespective of the fact whether he/she has been released on bail or not
- An employee who is detained in police custody whether on criminal or otherwise for a period longer than 8 hours shall not join his/her duties at the Institute unless he/she has obtained written permission to that effect from the GB of the Institute.

1.3.11 Vindication of Acts and Character of Employees

- No employee shall, except with the previous sanction of the Principal, have recourse to any court of law or to the press to vindicate any official act that has been the subject of adverse criticism or an attack of defamatory character.

1.3.12 Representation

- Whenever an employee wishes to put forth any claim, or seeks redress of any grievance or of any wrong done to him/her, he/she must forward his/her case through proper channel to Grievance &Redressal Cell.

1.3.13 Jurisdiction

- Dispute(s) if any, arising out of these Service Rules or any other rules that may be enforced from time to time will be resolved at the appropriate institutional board.

1.3.14 Identification

- It shall be mandatory for every employee of the Institute to carry on his/her person, at all times, when at the Institute and produce the same on demand, an identity card or any other mark of identification, as may be prescribed by the "GB" from time to time.
- An employee shall resign and/or termination from the services of the Institute, immediately hand over such identity card and/or mark of identification to the Principal of the Institute or any other official designated for the purpose.
- The use of such identity card and/or mark of identification shall be governed by the terms and conditions of the Institute from time to time.

1.3.15 Disciplinary Action / Suspension

The Principal may place a member of the staff appointed at the Institute under suspension:

- Where a disciplinary proceeding against him is contemplated or is pending or;
- Where a case against him in respect of any criminal offence is under investigation or trial.

- An employee against whom disciplinary action is proposed or likely to be taken shall be given a charge sheet setting forth the circumstances appearing against him/her, and a date shall be fixed for the inquiry.
- Sufficient time of not less than one week shall be given to him/her to prepare and to give his/her explanation, as also to produce any evidence that he/she may wish to tender in his/her defence. He/she shall be permitted to appear before the officer conducting the inquiry, to cross-examine any witness on whose evidence the charge rests. The employee will be permitted to produce evidences/witnesses in his/her defence.
- At the conclusion after inquiry, the inquiry officer shall be appointed by the Principal.
- The Principal shall consider the findings of the inquiry and propose to the Chairman "GB" to impose a major penalty, a minor penalty or no penalty at all. The action taken by the Principal shall necessarily need to be ratified by the Chairman "GB".

1.4 General Procedure of Recruitment (HR Policy)

a) The qualifications required for filling a post shall be as per the norms prescribed by AICTE/UGC/JNTUK/Government of Andhra Pradesh.

b) The Governing Body shall have the power to decide whether a particular post will be filled by open an advertisement, invitation, or from amongst the members of the existing staff in conformity with University Rules and Regulations.

c) All teaching staff posts from Assistant Professor and above and any other posts classified as teaching staff shall be filled by open competition. The selection will be based on the recommendations of the Staff Selection Committee duly constituted as per the norms of the Affiliating University.

d) All non-teaching posts, all temporary and adhoc appointments of Teaching and Non-Teaching staff shall be based on the recommendations of the Staff Selection committee duly constituted by Governing Body from time to time.

e) The Staff Selection Committee will interview the candidates invited for interview and make their recommendations to the Governing Body, arranging the names of the selected candidates being arranged in order of merit. The Selection Committees may recommend more names than the number of posts for which applications are invited or may reject all the applicants. However, the appointment orders are issued in the order of merit.

f) The experience of any candidate appearing at the interview is reckoned by the guidelines specified below.
- Teaching experience at an Engineering College – 100% weightage.
- Teaching experience at institutes other than Engineering colleges – 0% weightage.
- Industrial Experience – 50% of the period worked in any relevant industry.

g) No act or proceedings of any Selection Committee shall be questioned on the ground, merely, of the absence of any member of the Selection Committee.

h) The procedure adopted by the Selection Committee in selecting the candidates shall not be questioned as improper, irrelevant or unfair.

i) The Governing Body may in special circumstances, appoint persons (eg. Retired Persons) on a contract basis, year after year up to the age of 65 years, in case of teaching posts.

j) Any other instruction given, or rule prescribed, from time to time, by Govt. of Andhra Pradesh/Affiliating University/AICTE/UGC regarding the selection procedure will automatically form part of the rules/procedure of selection.

1.5. Classification of Members of the Staff

The members of staff of the Institute shall be classified

- **Academic** – which term shall include Principal(s), Vice Principal(s), Dean, Professor, Associate Professor, Assistant Professor, TPO, Librarian, Physical Director and such other academic posts as may be decided by the "GB".
- **Technical** – which term shall include Superintendent, Foreman, Supervision (Workshop), Lab Technician, Electrician, Mechanic, Store Officer and other staff as may be decided by the "GB".
- **Administrative and others** – Administrative Office, Office Superintendent, Accounts Assistant, Office Assistant Wardens / Matron and such other administrative and other staff as may be decided by the "GB".
- **Cleaning and other Staff** – which term shall include Security Guards, Gardeners,
  Sweepers, Scavengers, Skilled and Unskilled Attendants, Peons etc. and such other staff as may be decided by the "GB".
- **Probation –**Appointment of all employees will ordinarily, be made on probation for aperiod of one year. In case of unsatisfactory performance, the period of probation of an employee may be extended for such periods of time by the

Chairman "GB", if recommended by the Principal. The "GB" shall have the power to extend the period of probation of any employee of the Institute for such periods as may be found necessary, provided that if, after the period of probation, the official is not confirmed, and, his/her probation is also not formally extended, he/she shall be deemed to have continued on a temporary basis and that his/her services may then be terminable on a month's notice or on payment of a month's salary thereof.

- **Termination –**The "GB" shall have the power to terminate the services of any members of the staff without any cause assigned during the period of probation. However, due notice shall be given for this.
    a. The notice period for non-probationary staff is as under
    b. Principal(s), Deans, Faculty members and AO: 3 months
    c. All other staff: one month
- The "GB" shall have the power to terminate the services of any member of the staff by giving appropriate notice or on payment of salary for the notice period in lieu thereof. An employee of the Institute may terminate his/her engagement by giving appropriate notice in writing. In the event of any act prejudicial to the interests of the Institute by an employee, his/her services may be terminated by the Chairman "GB" without any notice or payment in lieu of notice. Service of an ad-hoc, temporary, contractual or part time employee shall come to an end on completion of the specified work for which he/she was employed or on the expiry of the period for which he/she was appointed, whichever is earlier. But, before the expiry of the said period or work, as the case may be, services of the employee could be terminated by the Chairman "GB" by giving one month's notice or one month's salary in lieu of notice, without assigning any reason whatsoever.
- **Retirement**
  Every employee of the Institute shall retire on attaining an age as provided for by regulatory bodies like the AICTE and in force from time to time. Extension or reemployment may also be given according to such provisions, at the discretion of the "GB" only, on such terms and conditions as deemed fit.
- **Terms of Temporary Employment**
  The service of a temporary employee shall be liable to termination at any time by notice in writing given either by the employee to the "GB" or by the "GB" to the employee. The

period of such notice shall be one month, unless otherwise agreed to by the Institute and the employee. The other terms and conditions of service of such employee shall be such as may be specified by the "GB" in his/her letter of appointment.

- **Appointments on Contract**
  Notwithstanding anything contained in these Service Rules, the "GB" may, in special circumstances, appoint an eminent person on contract for an initial period not exceeding five years, with a provision of renewal for further period, on such terms and conditions as it may deem fit.

1.6. Salaries and Allowances:

- AICTE guidelines shall be followed for pay fixation in general.
- The management reserves the right to offer special pay to deserving employees.
- The allowances shall be decided by the management on case-to-case basis.
- For TA and DA, AP state government rules shall be used as guidelines
- In matters of medical insurance, the employees shall be governed by regulations/procedures as may be decided by the management from time to time.

B.LEAVE RULES

2.1. Definitions

- **Holiday:** A Holiday means a day declared by a notification of the Institute to be a nonworking day for all employees except those otherwise specifically asked to attend the institute.
- **Salary:** Salary means the monthly remunerations drawn by an employee including basic pay, dearness allowance, personal pay, special pay, HRA etc.
- **Retirement**: The term refers to superannuation after attaining the age of 65 years. It has all other connotations as applied to a government department including pre-mature retirement.

2.2 General

- **Leave is a privilege and not a right:** It may be refused or revoked by the authority empowered to grant it. It would, however, generally be granted unless the exigencies of service demand otherwise.
- **Leave Application:** The Application shall be submitted on the prescribed form well in advance and shall be sanctioned before availing of the leave. The faculty members shall make alternate arrangements/internal adjustments among the faculty members of his/her or any other department to keep the students engaged.
- **No leave can commence unless it has been sanctioned:** Mere

submission of leave applications does not authorize an employee to avail the leave applied for. Availing of leave without getting the same sanction makes the employee liable to disciplinary action besides penal deductions.

- **No leave will be sanctioned by telephone** except in case of extraordinary circumstances/sudden illness etc. This shall however be regularized immediately upon joining the duty in writing.
- **Continued absence** of more than six days or repeated irregularity without intimation of any kind may render an employee liable to disciplinary action including termination of services.

2.3 Kinds of Leave:

2.3.1 CASUAL LEAVE:

- Staff members at KHIT can avail a maximum of 15 days of Casual Leave in a calendar Year. Under normal circumstances, staff can avail a maximum of 2 days Casual Leave in any month. Casual Leave availed more than 2 days in a month can be treated as leave availed on loss of pay.
- Public Holidays and Sundays can be prefixed and/or suffixed with Casual Leave. However, caution must be exercised to see that not more than 10% staff in the department avail leaves with suffixes and prefixes at a time

2.3.2 COMPENSATORY CASUAL LEAVE:

- Any employee detailed for duty on a holiday may be granted a Compensatory Casual Leave on a 1:1 basis, which must be availed before the end of the Academic Year.

2.3.3 VACATION:

- Members of the Teaching Staff who have completed one year or more of service in KHIT are eligible for a summer vacation of 4 weeks. Members of Non-Teaching Staff who have completed one year or more service in KHIT are eligible for 2 weeks of Summer Vacation.
- If a Staff member is recalled and assigned work during vacation he/she will be awarded one day earned leave for every two days of vacation forfeited.

2.3.4 EARNED LEAVE:

- Members of the Teaching Staff are eligible for 6 days earned leave for each year of service rendered in KHIT.
- Members of the Non-Teaching Staff are eligible for 12 days of Earned Leave for each year of service rendered in KHIT.
- Staff members with an accumulated earned leave of 120 days or more are entitled to encashment of 120 days earned leave at the

time of retirement of service in KHIT. The accumulated earned leave in excess over 120 days will be paid as a Gratuity to the staff member. Staff Members having less than 120 days of earned leave to their credit are not eligible for encashment of earned leave.

2.3.5 MATERNITY LEAVE:

- All Women Employees who have completed their period of probation are entitled to 3 months of Maternity Leave. Maternity Leave can be availed by women employees only twice during their service.

2.3.6 EDUCATIONAL LEAVE:

- Members of the Teaching Staff who have put in 2 years or more service in KHIT are encouraged by Management to take up higher education and research. Study Leave is granted to those staff who sign an agreement or execute a financial bond to serve the institute for a specified period after availing study leave. The financial bond required will be for the amount of salary drawn during the period of Study Leave.
- Staff with less than 2 years of service at the institution can avail Study Leave of 2 years for a regular postgraduate course or 3 years for a regular PhD Program without pay.

2.4. OTHER AUTHORISED ABSENCE FROM THE INSTITUTE:

- **'ON DUTY':** Member of Teaching Staff permitted to attend seminars/conferences/workshops will be considered as 'ON DUTY'. Staff presenting peer-reviewed papers at International Conferences and subsequently published in Journals of repute may be considered for financial assistance.
- A Staff Member detailed by the University to perform the duties as an Observer, Evaluator of University Examination Scripts or an Examiner for conducting a Laboratory Examination/Evaluation of Project Work will be considered as 'ON DUTY'. This facility is applicable only for duties assigned by JNTUK.
- **'PERMISSIONS':** A Staff Member can be granted 2 permissions in a month by the Principal each of less than 2 hours duration to leave the campus provided he/she is not assigned any class work during that period.
- A Staff Member desirous of availing 'Permission' should submit an application to the Principal through the proper channel. All permissions granted are to be registered in the concerned Department Register held in the Principal's Office.

B. PERFORMANCE INCENTIVES AND PROMOTION POLICY:

1.1. Definitions:

Experience: "Experience", means the "teaching experience" in the AICTE approved engineering institutes/institutions or in UGC recognized institutes. The "experience" gained by working in Companies/Industries may also be considered partially/fully by the GB of KHIT, in exceptional cases, depending upon the "quality" and "relevance" (to teaching) of the experience, "nature" of the job, designation/post held and the reputation of the company/industry at National/International level.

1.2. Performance Incentive:

Faculty Annual Performance Appraisal – APIs

1. Name :
2. Designation :
3. Department :
4. Qualifications :
5. Ratification Details :

CATEGORY: I. TEACHING, LEARNING AND EVALUATION RELATED ACTIVITIES

(i) Lectures, Seminars, Tutorials, Practical's, Contact Hours (give semester –wise details, where necessary)

S.No.	Course/Paper	Level	Mode of Teaching*	Hours per week allotted	% of classes taken as per documented record
1					
2					
3					

Lecture (L) Seminars (S), Tutorials (T), Practical (P), Contact Hours (C)

		API Score
(a)	Classes Taken (max 50 for 100% performance & Proportionate Score up to 80% performance, below which no score may be given)	
(b)	Teaching Load in excess of UGC norm (max score :10)	

ii) Reading / Instructional material consulted and additional knowledge resources provided to students.

S.No.	Course /Paper	Consulted	Prescribed	Additional Resource provided
1				
2				
3				
API Score based on preparation and imparting of knowledge /Instruction as per curriculum & syllabus enrichment by providing additional resource to Students (max. score: 20)				**API Score**

iii) Use of Participatory and innovate Teaching –Learning Methodologies, Updating of subject content, Course Improvement etc.

S.No	Short Description	API Score
1		
2		
3		
	Total Score (Max. Score: 20)	

iv) Examination Duties Assigned and Performed

S.No	Type of Examination Duties	Duties Assigned	Extent to which carried out (%)	API Score
1				
2				
3				
	Total Score (Max.25)			

CATEGORY:II CO-CURRICULAR, EXTENSION, PROFESSIONAL DEVELOPMENT RELATED ACTIVITIES

S.No	Type of Activity	Average Hrs./Week	API

.			Score
	(i) Extension, Co-curriculum & Field based activities.		
1			
2			
3			
	Total (Max. 20)		
	(ii) Contribution to Corporate Life and Management of the Institution	Yearly/Semester wise responsibility	API Score
1			
2			
3			
	Total (Max. 15)		
	(iii) Professional Development Activities		
1			
2			
3			
	Total (Max. 15)		
	Total Score (i + ii + iii) (Max. 25)		

CATEGORY III: (Research, Publications & Academic Contributions)

Note: Please read the instructions given at the end of Proforma for calculating API Score in each category.

(A) Published Papers in Journals

S.No.	Title with page no.	Journal	ISSN / ISBN No.	Whether peer reviewed. Impact factor, if any	No. of Coauthors	Whether you are the main author	API Score

1							
2							
3							

B (i) Articles / Chapters published in Books

S.No.	Title with page no.	Book Title, editor & publisher	ISSN / ISBN No.	Whether peer reviewed	No. of authors and date of publications	Whether you are the main author	API Score
1							
2							
3							

B (ii) Full papers in Conference Proceedings

S.No.	Title with page no.	Details of conference Publications	ISSN / ISBN No.	No. of Co-authors and date of publication	Whether you are the main author	API Score
1						
2						
3						

B. (iii) Books published as single author or as editor

S.No.	Title with page no.	Type of Book &Authorship	Publisher ISSN / ISBN No.	Whether peer reviewed	No. of Co author and date of publications	Whether you are the main author	API Score
1							
2							
3							

C (i& ii) Ongoing Research projects and consultancies

S. No	Title	Agency	Period	Grant/Amount Mobilized (Rs Lakhs)	API Score
1					
2					

3					

C (iii& iv) Completed Projects and Consultancies

S. No	Title	Agency	Period	Grant/Amount Mobilized (Rs Lakhs)	Whether Policy Documents / Patent as outcome	API Score
1						
2						
3						

(D) Research Guidance

S.No	Number Enrolled	Thesis Submitted	Degree Awarded	API Score
M.Phil or Equivalent				
Ph.D or Equivalent				

E (i) Training Courses, Teaching –Learning - Evaluation Technology, Faculty Development Programmes

S.No	Programme	Duration	Organized by	API Score
1				
2				
3				

E (ii) Papers presented in Conferences, Seminars, Workshops, Symposi

S. No	Title of the paper presented	Title of Conference / Seminar etc	Date (s) of the event	Organized by	Whether International/ National/State/Regional / University or college Level	API Score
1						

2						
3						

E (iii) Invited Lectures and Chairmanships at National or international Conference / Seminars

S. No	**Title of Lecture / Academic Session**	**Title of Conference / Seminar etc**	**Date (s) of the event**	**Organized by**	**Whether International/ National/State**	**API Score**
1						
2						
3						

SUMMARY OF API SCORES

S. No	**Criteria**	**Last Academic Year**	**Total – API Score for Assessment period**	**Annual Av. API Assessment period**
I	Teaching, Learning and Evaluation related activities			
II	Co-curricular, Extension, professional development etc.,			
	Total I + II			
III	Research and Academic Contribution			

Promotions:

(a) Open Selection: AICTE norms, as applicable from time to time, shall be followed for open selection.

(b) If he/she deserves promotion based on their experience and extra-ordinary performance or the skills which are useful to fill

the gap between Industry and Institute where GB approval is must.

(c) Professor of Eminence post may be filled as per AICTE norms.

Table B.10.1.3q:List of the published rules, policies and procedures, year of publications, awareness among the employees/students

S.No.	Rules/ Policies/ Procedures	Year of Publication	Employee Awareness	Students Awareness	Available in Web
1	Service Rules	2012	Yes	NA	Yes
2	Students Rules and Regulations	2010	Yes	Yes	Yes
3	Alumni	2014	Yes	Yes	Yes
4	Placement Policy	2014	Yes	Yes	Yes
5	Industry Institute Interaction Policy	2010	Yes	Yes	Yes
6	Research and Development Policy	2014	Yes	Yes	Yes
7	Grievance Redressal Cell Policy	2010	Yes	Yes	Yes
8	Right to Information Act Procedures.	2010	Yes	Yes	Yes

10.1.4. Decentralization in working and grievance redressal mechanism (5)

10.1.4.1	**De-Centralization in Working**
	A core team of about 20 members owns and leads the major processes in the institute to see that all these processes are intact. The responsibilities of the decision makers are discussed in the Table B.10.1.4a. In decentralization every member has freedom to meet his/her responsibilities, which helps in speedy completion of assigned tasks.

Table B.10.1.4a: Administrative Responsibilities

Position	Responsibilities

		Principal	• Design & define organization structure • Delegate responsibilities of various positions in the organization • Ensure periodic monitoring & evaluation of various processes& sub processes • Ensure effective purchase procedure • Define quality policy and objectives • Conduct periodic meetings of various bodies such as the Governing Body, the Academic Council, ICC, the Grievance Redressal Cell etc. • Monitor the Assessment and Evaluation • Propose Institutional Budget • Employee recruitment process
		Dean	• Deans are the nodal officers for coordination across the programs in the institution
		Head of the Departments	• Planning, executing and monitoring academic activities of the department • Maintaining discipline and culture in the department. • Promote the strength of students / faculty / staff. • Propose Department Budget. • Maintain records of departmental activities and achievements
		Administrative Officer	• Propose admission policy and execute the admission process. • Maintenance of college website • Maintenance all official records (AICTE, JNTUK and State Govt.) • College roster and Service Books • Faculty personal files • Recruitment process • Maintaining minutes of meeting • Coordinating day to day activities of office
		Placement Officer	• Liaison with industry • Identify and providing for training to students • Arranging campus interviews. • Proposing annual T & P budget
		Librarian	• Planning and executing modus operandi of routine activity of the library

			• Planning and proposing expansion / development • Maintain library discipline and culture • Prepare annual budget for library
		PhysicalEducation Director	• Ensuring smooth conduct of sports • Ensure proper use of gymnastics • Purchasing of sport items • Encouraging students to participate in zonal tournaments • Creation and upkeep of sports facilities • Proposing annual budget
		Conveners, Committees	• Convening the committee meetings • Reviewing the activities by the committee • Maintaining minutes of the meetings

10.1.4.2 **Grievance Redressal Mechanism:**

A well laid grievance redressal mechanism is available in the institute. This consists of a Grievance Redressal Committee and a Women Empowerment / Sexual harassment/Gender Equalization and Anti-Ragging Committee.

a. Anti-Ragging Committee:

Ragging of juniors by senior students is a very sensitive and serious issue to be curbed with an iron hand. It should be nipped in the bud as per the directions of Central and State Governments, Supreme Court, UGC, AICTE and JNTUK etc. All Possible steps are to be initiated, including the help of the local Police to tackle this menace On/Off Campus. The committee constituted is to take measures for creating awareness among the senior students about the consequences and penal punishments to be imposed on such students indulging in any kind of ragging, by way of Posters, Police lectures and by taking an undertaking from all seniors, etc. It has to oversee the appointment of the faculty vigilance teams for regular visits to vulnerable places, conduct its meeting periodically to get updated of the campus situation, imbibe confidence in the juniors and take appropriate disciplinary action against intransigent senior students.

Functions:

- To eradicate the menace of ragging by creating awareness among all the stakeholders and display posters explaining consequences penal punishments to conduct campaign against the Ragging
- To invite local Police for conducting awareness lectures on Ragging and its consequences
- To constitute Anti-Ragging squad and organize Fresher's day
- To instill confidence among all the stakeholders.

Table B.10.1.4b: Members of Anti Ragging Committee

S.No.	Name of the member	Designation	Position
1	Dr. B. S. B. Reddy, Principal	Principal	Chairman
2	Dr. G. Sreenivasulu	Dean, Freshman	Convener
3	Mr.D. Srinivasulu	Assoc. Prof, ME	Member
4	Dr. B. Lakshmi	Prof, BS&H	Member
5	Mr. A. Rajasekhar Reddy	Asst Professor, ECE	Member
6	Mr.V.S. R. PavanKumar	Assoc. Prof, CE	Member
7	Mr. MVN Murthy	Asst Prof, EEE	Member
8	Mr. Doppalapudi Naveen Kumar, F/O D. Navya Sri 248X1A0425	Parent Representative	Member
9	Mr. Y Sambi Reddy F/O Y. Lakshmi prasanna 238X1A42H3	Parent Representative	Member
10	Mr. B. Srinivasa Reddy F/O B. Ramesh Reddy 228X1A1239	Parent Representative	Member
11	Ms. D. Navya Sri 248X1A0425	Student Representative	Member
12	Ms. Y Lakshmi Prasanna 238X1A42H3	Student Representative	Member
13	Mr. KalumuriAkash 228x1A0213	Student Representative	Member
14	Mr. D. Naresh Kumar	Circle inspector, Nallapadu Police station	Member
15	Sri AllaVeeraBhadra Rao Reporter, Surya Daily newspaper	Media Representative	Member
16	Mrs.G.Vijaya Lakshmi	NGO Representative	Member

b. GrievanceRedressal Cell: Grievance Redressal cell deals with all types of grievances, complaints and malpractices including those received from Students, Faculty and other Stakeholders.

Any organization having a number of employees shall cater to a mechanism to address their grievances. Hence Grievance redressal cell is constituted for periodical hearing of employee grievances, and to recommend measures for its redressal to the higher authority within the frame work of the service rules and procedures of the college. This kind of mechanism helps a lot for

maintaining the peace and harmony between the employees and employer.

Functions:

- To receive the Grievances of students/faculty/stakeholders of AICTE approved Technical Institutions.
- To redress the Grievance received
- To receive and redress the Complaints of Ragging
- To receive the Complaints of violation of Norms & Standards by the AICTE approved Institutions

MISC Matters:

- Court Matters related to PGRC
- RTI matters

Table B.10.1.4c: Members of Grievance and Redressal Cell

S.No.	Name of the member	Designation	Position
1	Dr. B. S. B. Reddy	Principal	Chairman
2	Dr. J. V. K. Ratnam	Professor, ECE	Convener
3	Dr. S. R. K. Reddy	Professor, S & H	Member
4	Mr. G. Raju	Assoc. professor, ME	Member
5	Mr. D. Ramanaidu	Assoc. professor, ECE	Member
6	Mrs. B. Ramajyothi	Asst. professor, CSE	Member
7	Dr. M. Pallavi	Assoc. professor, CSE	Member
8	Mrs. K. Navya	AO	Member

c. Internal Complaints Committee (Gender Sensitization Committee against Sexual Harassment-GSCASH)

As per section IV AICTE (Gender Sensitization, Prevention and Prohibition of Sexual Harassment of Woman employees and students and the redressal of grievances in Technical Institutions) regulation 2016, GSCASH is constituted for preventing unfair practice and to ensure safety and security of the girl students and other women employees. The committee will act as a dedicated task force which can constantly monitor the existing (security) arrangements and suggest additional security measures to be put in place. It also organizes workshops and sensitization Programs both for staff and students by eminent Psychologists and social workers. The committee also addresses similar kind of issues on various occasions like: Women's day, Mother's Day, etc.

Functions of Internal Complaints Committee (ICC) or GSCASH:

The Internal Complaints Committee shall:

- Provide assistance if an employee or a student chooses to file a complaint with the police.
- Provide mechanisms of dispute redressal and dialogue to anticipate and address issues through just and fair conciliation without undermining complainant's right and minimize the need

for purely punitive approaches that lead to further resentment, alienation or violence.

- Protect the safety of the complainant by not divulging the person's identity, and provide the mandatory relief by way of sanctioned leave or relaxation of attendance requirement or transfer to another department or supervisor as required during the pendency of the complaint, or also provide for the transfer of the offender.
- Ensure that victims or witnesses are not victimized or discriminated against while dealing with complaints of sexual harassment
- Ensure prohibition of retaliation or adverse action against a covered individual because the employed or the student is engaged in protected activity.

Table B.10.1.4d: Members if Internal Complaints Committee (Gender Sensitization Committee against Sexual Harassment-GSCASH)

S. No	Name of the member	Designation	Position
1	Dr. B. Anupama	Professor, S&H	Presiding Officer
2	Mrs. V. Revathi Devi	Assoc. Professor	Member
3	Mrs. G.V.Vijaya Lakshmi	Asst. Professor	Member
4	Mr. M. SrinuNaik	Asst. Professor	Member
5	Dr. S. Sri jayalakshmi	Assoc Professor	Member
6	Ms. K. Prasanthi (248X1A0413)	Student Representative	Member
7	Ms. Y. Lakshmi Prasanna (238X1A42H3)	Student Representative	Member
8	Ms. A.VijayaDurga (228X1A0403)	Student Representative	Member
9	Ms. Ch. Lakshmi Jahnavi (218X1A4215)	Student Representative	Member
10	Mr N Anil Kumar (Founder of NGO) Women development and Empowerment	Nandini welfare society 6/2, Brodiepet Guntur Regd No: 351/1992 Unique Id: AP/2009/0000206	Member

Frequency of the Meetings and Attendance:

Table B.10.1.4e:Frequency and Attendance in the Committee Meetings

S.No.	Type of Meeting	Membership	Frequency of meeting	Dates of Meeting	Members Attended
1	Anti-Ragging Committee	16	Yearly	07-08-2024 04-09-2023	16 16
2	Grievance Redressal Cell	8	When and where necessary	10-01-2025 15-11-2024 06-08-2024	8 8 8
3	Internal Complaints Committee	10	When and where necessary	03-02-2025 19-11-2024 12-08-2024	5 10 7

10.1.5. Delegation of financial powers (5)

10.1.5 **Finance Committee**

Finance Committee of the institution shall be the key body which will monitor and manage the financial sustainability of the institution. Finance committee is an advisory body to the Governing Body and reports / recommends from time to time regarding the matters related to budget estimates, income from fees, etc. The term of the members of the finance committee will be for two years and shall be reconstituted by the Principal.

Functions of the Finance Committee

The functions of Finance Committee are as follows:

- To monitor and manage the budget estimates relating to the income from fees, etc. collected
- To manage the annual budgets and utilization reports submitted by the individual departments
- Audited account for the above
- Financial Delegation Department level
- Finance Committee Structure (Institute Level)

Table B.10.1.5a: Members of Finance Committee

Sl. No.	Name of the member	Designation	Position
1	Dr. M. Umasankara Reddy	Director	Management Representative
2	Mr. K. Mohan Reddy	Chairman	Management Representative
3	Dr. B. S. B. Reddy	Principal	Chairman
4	Mrs. K. Navya	AO	Convener
5	Mr. Y.Suresh Reddy	Office Superintendent	Member
6	Mr. M.NagaSeshu	Accountant	Member

Financial Utilizations by the Principal and HODs

- The Principal has no specific financial limit. However, expenses above 5 lakhs have to be ratified by finance committee.
- Heads of the Departments can spend uptoRs 5000/- for department developmental activities

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

10.1.6	**Information in Public Domain**
	All the Information is available with the departments and on the Website of the College, **www.khitguntur.ac.in.** Information Cell with the Principal as the Chief Information Officer in accordance by the provisions of Right to Information Act, 2005 is instituted favoring the following: • Academic and Administrative Transparency • Policies defined by the Institute are uploaded in the website for the stakeholders to access. There are notice boards in all the blocks through which information is made available to the staff and students and every significant circulars are sent to the classrooms.

10.2 Budget Allocation, Utilization, and Public Accounting at Institute level (15)

Table B.10.2a1: **CFY 2024-25**

Total Income in CFY:290279110				**Actual expenditure in CFY (December 2024): 203123824**			**Total No. of students in CFY:4487**
Fee	**Govt.**	**Grant(s)**	**Other Sources (specify)**	**Recurring including Salaries**	**Non-recurring**	**Special Projects/Any other, specify**	**Expenditure per student**
238467900			700000	109612411	874910		45269

Table B.10.2a2: **CFYm1 2023-24**

Total Income in CFY: 290279110				**Actual expenditure in CFY (December 2024): 203123824**			**Total No. of students in CFY: 4487**
Fee	**Govt.**	**Grant(s)**	**Other Sources (specify)**	**Recurring including Salaries**	**Non-recurring**	**Special Projects/Any other, specify**	**Expenditure per student**

238467900			700000	109612411	874910		45269

Table B.10.2a3: **CFYm1 2022-23**

Total Income in CFY: 290279110				**Actual expenditure in CFY (December 2024): 203123824**			**Total No. of students in CFY: 4487**
Fee	**Govt.**	**Grant (s)**	**Other Sources (specify)**	**Recurring including Salaries**	**Non-recurring**	**Special Projects/Any other, specify**	**Expenditure per student**
238467900			700000	109612411	874910		45269

Table B.10.2a4: **CFYm1 2021-22**

Total Income in CFY: 290279110				**Actual expenditure in CFY (December 2024): 203123824**			**Total No. of students in CFY: 4487**
Fee	**Govt.**	**Grant (s)**	**Other Sources (specify)**	**Recurring including Salaries**	**Non-recurring**	**Special Projects/Any other, specify**	**Expenditure per student**
238467900			700000	109612411	874910		45269

Table B.10.2b: Summary of institution level budget and actual expenditure

ITEMS	Budgeted in 2024-25	Actual Expenses in 2024-25 Till December 2024	Budgeted in 2023-24	Actual Expenses in 2023-24	Budgeted in 2022-23	Actual Expenses in 2022-23	Budgeted in 2021-22	Actual Expenses in 2021-22
Infrastructure Buit-up	30000000	25000000	20000000	17188639	20000000	18316258	25000000	24367968
Library	2000000	577617	3000000	2704949	500000	311012	500000	382912
Laboratory Equipment	1000000	2000000	500000	109462	1500000	1049090	500000	323416
Laboratory Consumables	2000000	527310	1000000	842175	2000000	1453033	1500000	1239707
Teaching and non-Teaching staff salary	145000000	112547562	135000000	128889880	120000000	109129263	88000000	79367158
Maintenance and Spares	30000000	22883306	30000000	28323650	30000000	22763888	20000000	14791892
R&D	5000000	5000000	5000000	4618410	5000000	4900450	3000000	2651910
Training and Travel	5000000	2088029	5500000	5740377	1000000	713891	1500000	1030278
Miscellaneous Expenses	50000000	32500000	40000000	42874048	40000000	35252412	70000000	79591946
Others, Specify								
Total	**270000000**	**203123824**	**240000000**	**231291590**	**220000000**	**193889297**	**210000000**	**203747187**

10.2.1. Adequacy of budget allocation (5)

10.2.1	Adequacy of budget allocation
	The Budget proposal for the academic year is prepared by the individual departments as per the guidelines from the financial committee constituted by the Principal. The collective budget proposals are scrutinized by the same for approval and sanction of the budget. Once it is sanctioned, the Principal will inform the department to utilize it as per the requirement.

10.2.2. Utilization of allocated funds(5)

10.2.2	Utilization of allocated funds

Financial year	2023-24	2022-23	2021-22
Utilization of the budget (%)	95.31	88.09	96.26

Table B.10.2c: Utilization of Funds – Institute Level

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

10.2.3	Audited statements on the institute's website
	The audit statements of all the Financial years are available on the institute web site.URL: www. khitguntur.ac.in

10.3 Program Specific Budget Allocation, Utilization (30)

Table B.10.3a: **For CFY: 2024-25**

Total Budget in CFY:2400000		**Actual expenditure in CFY (till December 2024):**2197649		**Total No. of students in CFY**:157
Nonrecurring	**Recurring**	**Non Recurring**	**Recurring**	**Expenditure per student**
150000	3000000	111366	2474495	16470

Table B.10.3b: **For CFY: 2023-24**

Total Budget in CFYm1: 4200000		**Actual expenditure in CFYm1:** 3603681.357		**Total No. of students in CFYm1**: 169
Nonrecurring	**Recurring**	**Non Recurring**	**Recurring**	**Expenditure per student**
100000	4100000	53101	3550580	21324

Table B.10.3c: **For CFY: 2022-23**

Total Budget in CFYm2: 1840000		**Actual expenditure in CFYm2:** 3281797		**Total No. of students in CFYm2**: 159
Nonrecurring	**Recurring**	**Non Recurring**	**Recurring**	**Expenditure per student**
1500000	1800000	125864	3155933	20640

Table B.10.3d: **For CFY: 2021-22**

Total Budget in CFYm3: 6230000		**Actual expenditure in CFYm3:**5232946		**Total No. of students in CFYm3**:155
Nonrecurring	**Recurring**	**Non Recurring**	**Recurring**	**Expenditure per student**
100000	6130000	16956	5215991	33760

Table B.10.3b: Summary of program specific budget allocation and actual expenditure

ITEMS	**Budgeted in 2024-25**	**Actual Expenses in 2024-25 Till December 2024**	**Budgeted in 2023-24**	**Actual Expenses in 2023-24**	**Budgeted in 2022-23**	**Actual Expenses in 2022-23**	**Budgeted in 2021-22**	**Actual Expenses in 2021-22**
Laboratory Equipment	150000	111366	100000	53101.33	150000	125864	100000	16956
Software	0	0	0	0	0	0	0	0
Laboratory consumable	50000	17332	50000	36289.54	100000	70458	80000	65115
Maintenance and Spares	1000000	752150	1500000	1220473	1200000	1103830	800000	776938
R & D	150000	157278	250000	199008.5	250000	237625	150000	139290
Training and Travel	100000	68631	300000	247354.3	50000	34617	600000	54115
Miscellaneous Expenses	1700000	1479103	2000000	1847454	2000000	1709403	4500000	4180533
Total	3150000	2585861	4200000	3603681	3750000	3281797	6230000	5232946

10.3.1 Adequacy of budget allocation (10)

10.3.1	**Adequacy of budget allocation**
	The yearly budget is prepared according to the needs & requirements of the department taking into consideration of annual intake of students, laboratory & infrastructure developments. The budget is progressively increased to meet the new facilities for equipment, replacement of outdated equipment and new labs due to revision in syllabus.

10.3.2 Utilization of allocated funds(20)

10.3.2	**Utilization of allocated funds**
	Table B.10.3b: Utilization of Funds- Program Level

Financial year	**2023-2024**	**2022-23**	**2021-22**
Utilization of the budget (%)	85.8	87.5	84

10.4 Library and Internet (20)

10.4.1 Library as a Learning Resource

About the Library:

Fig. 10.4.1a: Central Library

Table B.10.4.1a: Library Information

S.No	Description	Particulars
1	Carpet area of the library	1400 sqm
2	Reading space	400 sqm
3	Number of seats in reading space	200
4	Number of visitors per month	3150
5	Number of users issue & returns per month	2640
6	Ratio of library books to students enrolled	8:1
7	Average number of books added during last three years	4323
8	Average number of login to e-resources per month	660
9	Timings	8:00AM TO 6:00PM
10	Number of library staff	4

11	Number of library staff with degree in library Science	3
12	Computerization for search indexing issue /return records	YES
13	Bar-coding of books	YES
14	Library service on internet /intranet	YES
15	IEEE, J-GATE & N-LIST similar membership	YES
16	NPTEL and other multimedia courses	YES
17	Number of volumes	37300
18	Number of titles	5081
19	Number of reference books	4737
20	Print journals	132
21	Project reports	507
22	CDROMs	1242
23	E-books	1313
24	Digital library	YES
25	Number of computers in digital library	30
26	Number of information literacy training organized	3

A. Library Services:

1**. Circulation Services**

- All the books can be borrowed on automation in the library and barcode scanners are used in the circulation counter for the transaction of books.
- Students can be issued three regular books for a period of 15 days.
- For the staff numbers, 8 books would be given in each semester.

2.**Reference Services:**

- Journals, magazines, project reports, encyclopedias and dictionaries are furnished under this section and can be used inside the library only.

3. **Internet Facilities:**

- 30 computers with internet facility are exclusively provided in the Digital Library for both students and staff members

4. **E- resources:**

- IEEE,N-List, J-Gate subscriptions and NPTEL videosare made available in the Digital Library.

5**. Question Papers:**

- Gate Question papers, Gate previous question papers are readily available for reference.

6. **Reprography Services:**

- Xerox facility is available in the central library.

7. **Bibliographic Services:**

- In this division a list of all books is displayed in the central library for the students to make a search easier with regard to title, author and the company of the book published.

8. **OPAC:**

- In this section students are facilitated with status of books that can be easily found out with the software available on 2 computers in the central library.

9. **Library committee:**

- The library possesses an advisory committee in which Principal acts as a Chairman, Librarian as a coordinator, the Asst. Librarian as another coordinator along with seven other professors as members. The committee assembles and discusses different aspects with regard to formulating policies and procedures for efficient use of library resources. It also prepares budget and proposals for the development of the library.
- For Information deployment and notification, notice boards are displayed in both the central and digital libraries.
- For feedback /suggestions /complaints, a box is kept available in the central library to staff and students from time to time.

10.Digital Library:

Fig.10.4.1b. Digital Library

- **E-journals:**

  E- Journals which are subscribed from IEEE, J-Gate and N-LIST can be accessed by faculty members and students during the library working hours.

  - **J- Gate:**

    Web: https://jgatenext.com

    J-Gate username: kallamuser

    J-Gate password: kallamuser537023526

  - **IEEE (Institute of Electrical and Electronics Engineers)**

    IP:103.42.251.38

    IP:202.53.82.82

  - **N- LIST**

IEEE username: harikrishnaketha81@gmail.com
IEEE password: 344943

- NPTEL lectures
- E-Books
- List of CDs available

Table B.10.4.1b: Program wise library books statistics

S.No.	Department	Program	Titles	Volumes
1	ECE	B.Tech.	621	3701
		M.Tech.	75	373
2	CSE	B.Tech.	883	6221
		M.Tech.	83	533
3	EEE	B.Tech.	524	3272
4	CE	B.Tech.	441	2968
		M.Tech.	82	655
5	ME	B.Tech.	411	4441
		M.Tech.	62	660
6	CSE (AI & ML)	B.Tech.	81	938
7	CSE (AI & DS)	B.Tech.	90	936
8	CSE (DS)	B.Tech.	81	938
9	IT	B.Tech.	169	1472
10	S&H	B.Tech.	479	3312
11	MBA		313	2150
12	MCA		275	2236
Total			**4670**	**34746**

Table B.10.4.1c: Program-wise Library Book bank Statistics

S.No.	Program	Titles	Volumes
1	B.Tech. ECE	75	373
2	B.Tech. CSE	83	533
3	B.Tech. EEE	34	162
4	B.Tech. CE	82	441
5	B.Tech. MECH	62	411
6	B.Tech. S&H	75	634
Total		**411**	**2554**

Table B.10.4.1d: Department-wise library books information

S.No	Department	Titles	Volumes
1	ECE	771	4447
2	CSE	1049	7327
3	EEE	558	3434

4	CE	605	3964
5	ME	535	5512
6	CSE (AIML)	81	938
7	CSE(AI&DS)	90	936
8	CSE(DS)	81	938
9	IT	169	1472
10	S&H	554	3946
11	MBA	313	2150
12	MCA	275	2236
TOTAL		**5081**	**37300**

Table B.10.4.1e: Department library

S.No	Department	Titles	Volumes
1	ECE	98	205
2	CSE	42	105
3	EEE	154	228
4	CE	49	105
5	ME	60	105
6	S&H	48	105
TOTAL		**451**	**853**

Table B.10.4.1f: Department-wise Journal Information

S.No	Branch	No. of National Journals	No. of International Journals	Total no of Journals
1	ECE	12	6	18
2	CSE	12	6	18
3	EEE	6	-	6
4	CE	12	6	18
5	ME	12	6	18
6	CSE (AI&ML)	6	-	6
7	CSE(AI&DS)	6	-	6
8	CSE(DS)	6	-	6
9	IT	6	-	6
10	S&H	6	-	6
11	MBA	6	6	12
12	MCA	6	6	12
TOTAL		**96**	**36**	**132**

Table B.10.4.1g:Department-wise CDs information

S.No	Branch	No of available
1	ECE	235
2	CSE	125
3	EEE	69
4	CE	78
5	ME	79
6	CSE (AI&ML)	59
7	CSE(AI&DS)	44
8	CSE(DS)	42
9	IT	62
10	S&H	412
11	MBA	5
12	MCA	32
TOTAL		**1242**

C. Library Expenditure

Table B.10.4.1h: Information about addition of Titles & Volumes per Year

Year	No of Titles Added	No of New Volumes Added	No of Reference Books Added	Expenditure in Rs.
2023-2024	183	2093	66	1294021
2022-2023	168	1190	54	266609
2021-2022	46	1040	58	262797

Table B.10.4.1i: Journal Information

Year	No of Journals & Magazines	Expenditure in Rs.
2023-2024	124	953728
2022-2023	124	906605
2021-2022	124	945453

Table B.10.4.1j: Library Expenditure

Year	Books Expenditure Rs.	Journals / Magazines Budget Rs.	Total Expenditure in Rs.
2023-2024	1294021	953728	2247749

	2022-2023	186228	906605	1092833
	2021-2022	262797	945453	1208250

10.4.2 **Internet**

Table B.10.4.2a: Internet Details

Name of the Internet provider	Net links, Blue Web
Available bandwidth	1000 Mbps (1:1)
Access speed	1000Mbps
Availability of Internet in computer center	Yes
Availability in computer lab	Yes
Availability in Departments and other units	Yes
Availability in Faculty rooms	Yes
Institute own-mail facility to faculty/students	Yes
Security/privacy of e-mail/internet users	Yes

ANNEXURE I

(A) PROGRAM OUTCOMES

Engineering Graduates will be able to:

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

comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.

11. **Project management and finance**: Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.
12. **Life-long learning**: Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

(B) PROGRAM SPECIFIC OUTCOMES (PSOs)

PSO1: Apply the knowledge of electrical engineering, investigate and solve the complex electrical engineering problems to meet the specified needs with appropriate considerations for the society.

PSO2: Analyze, design and integrate electrical systems and apply modern tools and techniques to the complex engineering problems and create passion for life-long learning.

PSO3: Acquire skills through hands-on experience and work effectively alone or with a team, demonstrating expertise and entrepreneurial mindset.

ANNEXURE II

Name of the Faculty Member	Qualification			Association with the Institution	Designation	Date on which Designated as Professor/Associate Professor	Date of Joining the Institution	Department	Specialization	Academic Research			Currently Associated(Y/N) Date of Leaving (Incase Currently Associated is("No")	Nature of Association(Regular/Contract)
	Degree(highest degree)	University	Year of attaining higher qualification							Research Paper Publications	Ph.D. Guidance	Faculty Receiving Ph.D. during the Assessment Years		
Dr. K. Hari Krishna	Ph.D	ANU	2017	YES	Professor & HOD	30.10.2017	05.06.2014	EEE	Power Systems	16	YES		Y	Regular
Dr. L. Shanmukha Rao	Ph.D	JNTUH	2016	YES	Professor	01.06.2016	01.06.2016	EEE	Power Systems	38	YES		Y	Regular
Dr.G. Kishor Babu	Ph.D	ANU	2017	YES	Professor	08.08.2022	08.08.2022	EEE	Control Systems	28	YES		Y	Regular
Dr. P.P. Sharma	Ph.D	AU	2024	YES	Professor	17.05.2024	03.06.2013	EEE	Power Systems & Automation	28		YES	Y	Regular
Mr. R.Subba Reddy	M.Tech (Ph.D)	JNTUK	2008	YES	Associate Professor	04.06.2011	04.06.2011	EEE	Power Systems				Y	Regular
Mr. M.V.N. Murthy	M.Tech (Ph.D)	JNTUA	2010	YES	Assistant Professor		06.06.2011	EEE	Power Systems	6			Y	Regular
Mr.V.Rajesh	M.Tech	JNTUK	2012	YES	Assistant Professor		07.02.2022	EEE	Power & Industrial Drives				Y	Regular
Mr.P.Venu	M.Tech	JNTUA	2011	YES	Assistant		14.03.2022	EEE	Control	7			Y	Regular

Babu	(Ph.D.)				Professor				Systems					
Mr.M.Ranjith Kumar	M.E (Ph.D)	AU	2011	YES	Assistant Professor		01.08.2022	EEE	Power Systems & Automation	5			Y	Regular
Mrs.P.Kavitha	M.Tech	JNTUH	2008	YES	Assistant Professor		23.08.2022	EEE	Power & Industrial Drives				Y	Regular
Mr.D.Sambasivarao	M.Tech	JNTUK	2015	YES	Assistant Professor		21.10.2021	EEE	Power Systems& High Voltage Engineering	1			Y	Regular
Mr.J.Sunil Babu	M.Tech	ANU	2008	YES	Assistant Professor		19.06.2023	EEE	Power Systems& Engineering	3			Y	Regular
Mrs.P.Nagadivya	M.Tech	JNTUK	2017	YES	Assistant Professor		18.04.2022	EEE	Power Electronics				Y	Regular
Mrs.B.Lavanya	M.Tech	JNTUK	2019	YES	Assistant Professor		15.06.2024	EEE	Power Electronics &Electrical Drives				Y	Regular
Mr.D.Joseph Abhishek	M.Tech (Ph.D)	JNTUK	2021	YES	Assistant Professor		25.11.2024	EEE	Power Systems & Automation	1			Y	Regular
Dr. M. S. Naik	Ph.D	ANU	2022	YES	Associate Professor	30.09.2022	22.06.2015	EEE	Power Electronics & Drives				27.02.2024	Regular
Mr.K.Gopi Krishna	M.Tech	JNTUK	2013	YES	Assistant Professor		11.07.2023	EEE	Power Electronics				27.02.2024	Regular
Mrs. P. Naga Jyothi	M.Tech	JNTUK	2019	YES	Assistant Professor		01.06.2019	EEE	Power Electronics				06.05.2024	Regular
Mrs. SK.Kousar Sana	M.Tech	JNTUK	2017	YES	Assistant Professor		01.06.2019	EEE	Power Electronics & Drives				06.05.2023	Regular

Mr. K. Nagaraju	M.Tech	NIT CALICUT	2011	YES	Assistant Professor		01.06.2011	EEE	Instrumentation & Control Systems				31.12.2022	Regular