SIDDHARTHA
ACADEMY OF HIGHER EDUCATION
An Institution DEEMED TO BE UNIVERSITY
(Under Section 3 of UGC Act, 1956)
(Sponsored by Siddhartha Academy of General & Technical Education, Vijayawada, A.P.)

ACADEMIC AUDIT

Evaluation Sheet

(With effect from 2020-21)

School Name : School of Engineering

Department Name : Electrical & Electronics Engineering

Programme Name : B.Tech

Academic Year : 2024-25

Annual department plan (enclose a separate sheet along with the previous 3 years planned & achieved data)

I. POs, PSOs and Curriculum		
S. No	**Criteria**	**Observations**
1.	POs & PSOs attainment along with sample calculation sheet	PO attainment for 2021-25 batch is available (VR20 Regulation).
2.	Stakeholders feedback collected, analyzed & action taken related to curriculum design (with evidences)	• Feedback is collected from Stakeholders. (Faculty, Students, Parents & Alumni) • Stakeholders suggestions for A.Y.2023-24 were analyzed and action was taken related to curriculum design and was implemented in A.Y. 2024-25.
3.	Extent of stakeholders satisfaction with curriculum revision	• Curriculum was revised by considering the inputs given by stake holders (Faculty, students, Parents & Alumni). • The inputs were reviewed and forwarded to concern course coordinators through module coordinators. • Suggestions & recommendations given by DAB & BOS members were considered and implemented for Curriculum revision.
4.	-New courses introduced -Courses upgraded with more than 25% of course content	**New courses introduced:** i) Python Programming lab (23EE3651) (VR23-III Sem) ii) Data structures using Python(23EE4651) (VR23,IV Sem) **Courses upgraded with more than 25% of course, content:**

		Refer Annexure -I
5.	Lab component - New labs added - No. of new experiments introduced - New Hardware / Software developed	No. of new experiments introduced: 6 new experiments are introduced in IOT lab. New Hardware: New equipment were purchased in Electrical Measurements & Control systems lab , HV , IOT , Power Systems labs and UG Computer lab. Details **Refer Annexure -II**
6.	No. & % of courses focusing on employability/ entrepreneurship/ skill development.	a.Employability:34 %of courses focusing on employability :34/63=53.96% b.Entrepreneurship:5 % of courses focusing on entrepreneurship:5/63=7.93% c.Skill development: 18 % of courses focusing on/skill development:18/63=28.57% **Refer Annexure -I**
7.	No. of students undertaken -full time field projects: -full time internships:	Full time field projects: Student internships opportunities in industry were increased and few of them are converted into major projects.Given below are list of projects done through internships and they are considered as major projects. 1.Four students of IV/IV EEE got internship opportunity to work at IIT Tirupathi NiF for the project titled "Precision Landing of the Drone" from January 2025 to May 2025. 2.Two students got an opportunity to do a paid internship at Peepuls Agri Ventures LLP, Hyderabad. 3.Three students got an opportunity to do a paid internship at Flyway Innovation Private Limited, Bhopal. III year Students: Fulltime internships (6Weeks):137students Without Stipend: 130 With Stipend: 07 IV year Students: Fulltime internships (16weeks):138students With Stipend:24 Without Stipend:114 Internships through placements (with Stipend):07

II. Faculty information and their contribution		
S.No	**Criterion**	**Observations**
1.	Teacher- student ratio	1:17.08 (Excluding first year faculty) as per NBA Guidelines.
2.	Faculty Cadre ratio	2:4:19
3	Faculty experience & retention	Average Experience: 9.85 yrs Retention ratio : 10.913 as per NBA guidelines
4.	Faculty with Post-Doctoral Fellowship or Pursuing it:	01- Dr. J.Vimala Kumari (Pursuing) 02- Dr.Subhojit Dawn (Completed) 03- Dr. K.Dhananjay Rao(Completed)
5	Faculty guiding /guided PhDs:	Faculty guiding PhDs:06 1.Dr.A.RamaDevi (JNTUK) 2. Dr.G.SrinivasaRao (JNTUK) 3. Dr.B.VenkateswaraRao (SAHE, JNTUK, Annamalai) 4. Dr.Subhojit Dawn (NIT Meghalaya, MAKAUT, SAHE) 5. Dr. K.Dhananjay Rao(SAHE) 6.Dr.D.Indira (SAHE). SNSVK Chaitanya was awarded with PhD under the guideship of Dr.B.Venkateswara Rao.
6.	Percentage of faculty contributing in … ……..research publications: ……..books: ……..chapters:	Research publications:19/23=82.60% Books: 0 Chapters: 7/23=30.43%
7.	e-Content development / Lectures added to Web-resources	Lecture videos of some subjects were added to youtube .
8.	Faculty ***contribution*** in professional organizations/ Reviewer / Editorial boards: *(not mere memberships)*	23 Faculty has IE membership Six of the Departmental Faculty were Reviewers/Members in Editorial board for various journals. **Details: ReferAnnexure-III**
9.	Academic Awards/Rewards received:	Dr.Subhojit Dawn received Best Associate Editor Award - Journal of Electrical Engineering &Technology, Springer, December 2024.
10.	Faculty contribution in Industry / Institute collaborative projects	• Dr.T.Naveen & V.Ravindranath Chowdary and students from the Robotics club completed the GPS location and image processing in the robot in association with Peepul Agri Ventures LLP project. • Dr.T.Naveen & V.Ravindranath Chowdary were involved inWeed identification and weed removal project that had been initiated

<table>
<tr><td></td><td></td><td>with Peepul Agri Ventures LLP

• Dr.J.Vimala Kumari and students from the Drones Club built two (Weather forecasting and Transmission line surveying) Autonomous Drones pertained to the real time applications in association with industry partner Mohan Shanmukh from Full Throttle RC India, Hyderabad.

• Dr. A. Rama Devi guided the project titled "Multipurpose Rock-bottom Compact Machinery for Agriculture Sector".

• Dr. G. Srinivasa Rao guided the project titled"Hybrid Convertible Bed".</td></tr>
<tr><td>11.</td><td>Faculty trained in Industry</td><td>9 Faculty in the Department underwent training in Industries.
Refer Annexure-IV</td></tr>
<tr><td>12.</td><td>Faculty contribution in obtaining internships/ Placements/ MoUs</td><td>Faculty contribution in obtaining Internships:
Seven of Departmental faculty contributed in obtaining internships.
For details Refer Annexure-V

Faculty contribution in obtaining Placements :
No.of Placements: 69
<table>
<tr><th>s.no</th><th>Company Name</th><th>Faculty</th><th>No of students</th></tr>
<tr><td>1.</td><td>Suntek</td><td>T.Suneel/Dr. SNSVK Chaitanya</td><td>30</td></tr>
<tr><td>2</td><td>Premier Energies Photovoltaic Private Ltd</td><td>T.Suneel</td><td>02</td></tr>
<tr><td>3</td><td>ECOREN</td><td>T.Suneel</td><td>01</td></tr>
<tr><td>4</td><td>Garuda Aerospace</td><td>Dr.J Vimala Kumari</td><td>01</td></tr>
<tr><td>5</td><td>Tata Electronics</td><td>T.Suneel/Dr. SNSVK Chaitanya</td><td>19</td></tr>
<tr><td>6</td><td>Vector Technics</td><td>T.Suneel</td><td>4</td></tr>
<tr><td>7</td><td>Peepul Agro Services Pvt Ltd</td><td>T.Naveen</td><td>1</td></tr>
<tr><td>8</td><td>Junna Solar Systems Ltd</td><td>T.Suneel</td><td>11</td></tr>
</table>
Faculty contribution in obtaining
MoUs: 06 faculty of Department are involved in making MoUs with different Organizations/ Industries</td></tr>
</table>

		Refer Annexure-V
13.	Faculty as resource persons in webinars/ workshops / key note speaker / training activities	Three of the Departmental faculty were resource persons in FDPs. For details **Refer Annexure-VI**
14.	National level events organized -Conferences: -Workshops/ Seminars: - Webinars - FDPs: International level events organized - Conferences - Webinars -Workshops/Seminars - Hackathon	**Conferences:** NIL **Workshops:**06 1.Organized Five-day Workshop on Drone Dynamics and flying Hackathon- 1 from 08-11-2024 to 12-11-2024 in association with Garuda Aerospace Pvt Ltd, Chennai 2.Conducted Workshop on PLC Programming & Applications from 08-01-2025 to 09-01-2025, in association with Hitech Automation, Vijayawada. 3.Conducted 3-days Workshop on "FPGA-Based Controller Design for Electric Vehicles " and resource persons were Dr. V. Sandeep, Assistant Professor, NIT-AP & Dr. L N Sastry Varanasi, Director, M/s. NDEEP CONNECT Pvt. Ltd., Hyderabad from 12/02/2025 to 14/02/2025. 4. Organised two-day workshop on "Testing Electrical Apparatus Using 10kV Digital Insulation Tester" from 14th and 15th May 2025 and resource person was Mr. Sangram Simpi, CTO, Sistech HV Systems, Bangalore. 5.Conducted a 2-day offline workshop on "Aerial Drone Technology – Mastering the Future of Drones "from 03/04/2025 to 04/04/2025 6. Four-day workshop on EV Technology from 13/02/2025 to 16/02/2025 **Webinars:**02 1. Online Webinar was conducted on "Electronics for a career" by Dr. Roshan, Director, OI Tech solutions pvt ltd dated 30/01/2025. 2. Online Webinar on- "Job opportunities in VLSI/ Semiconductor Industry "was conducted by Ms.Apoorva, Physical Designer, Takshila VLSI, Bangalore, Karnataka dated 16/04/25. **FDPs**: 1. One-Week Online Faculty Development Program was organized (Joint-FDP) on "Smart Grid Integration & Renewable Energy for Electric Mobility from 2 nd to

		6th June 2025. **Conferences:**01 International Conference on Computational Intelligence for Green and SustainableTechnologies (ICCIGST-2024) was organized by EEE Department on18 th&19 th July, 2024 **Hackathon:**01 Drone Fusion Hackathon was conducted on 03/04/2025 & 04/04/2025. Chief guest for the event was Sri.V.Sadhasivan Girish, Chief Pilot Officer, Aarav Unmanned Solutions Pvt Ltd
15.	List of conferences/seminars/ webinars/ workshops/FDPs attended for the enrichment of teaching - learning process	Conferences:11 Seminars/Webinars:10 Workshops:19 FDPs/STTP:92 Coursera:12 NPTEL:23
16	Faculty interaction with outside world (BOS/NBA/Examiner for PhD evaluation / selection committee / Academic auditing / Chairperson /Chief guest /etc.)	**Refer Annexure-VII**

III. Teaching-Learning Process and Evaluation

S. No	Criterion	Observations
1.	Student performance indices Measures to reduce detentions -Attendance (detentions if any): -Exams (detentions if any):	Measures to reduce detentions: 1. Senior faculty will interact with students 2. Parents meet was conducted 3. Counseling by faculty Detention :

Semester	No.of students	Reason
3	Nil	----
4	01	Attendance
5	02	Attendance &Marks
6	03	Attendance &Marks
7	03	Attendance &Marks
8	Nil	----

2.	Mechanism and activities for slow learners: Outcome:	1.Remedial classes are conducted for the students who got less than 50% marks in internal assessment of(A-I& II and S-I) for the courses Electrical Machines-1, Power Generation and Transmission, Electrical Measurement Systems and Advanced Control Systems.

<table>
<tr><td></td><td></td><td>2.Quality circles are implemented, where groups are formed with slow learners in which each group is assigned to a merit student in that course from the same class.
Outcome: The performance of few slow learners has been improved in continuous assessments and end semester examination.</td></tr>
<tr><td>3.</td><td>Mechanism and activities for Fast learners to excel:
Outcome:</td><td>1.CBCS is implemented for fast learners so that they can concentrate more on their project work or can do their project at industry.

2.Guest lectures on advanced topics were conducted on recent trends so that the fast learners can work in that domains.

3.Fast learners were encouraged to publish their project work in reputed journals and conferences.

4.Students were allowed to attend fulltime internships.

5.Honor and Minor degree courses were introduced for fast learners so that they can gain multidisciplinary knowledge which makes them to adapt to different roles in their careers.
Outcome:
1. UG students have made 39 publications.
2. 132 students were placed in core industry based on the skills acquired by them during the training programs.</td></tr>
<tr><td>4.</td><td>Bridge courses:
Value added courses:</td><td>Bridge courses:
• Conducted Bridge course for lateral entry students in Transformation & Numerical Methods Course (23BS3101D) and Electrical Circuit Analysis-II course (23EE3304).
Value added courses:
Conducted Value added courses for students for the A.Y:2024-25 as shown below
<table>
<tr><th>S.no</th><th>Name of course</th><th>Duration in hours</th><th>No.of Students</th></tr>
<tr><td>1.</td><td>PLC Training on Siemens</td><td>33</td><td>39</td></tr>
<tr><td>2.</td><td>Industry Applications using PLC</td><td>36</td><td>30</td></tr>
<tr><td>3.</td><td>Hands-ON training on MATLAB</td><td>36</td><td>30</td></tr>
<tr><td>4.</td><td>Electrical Engineering</td><td>33</td><td>39</td></tr>
</table></td></tr>
</table>

			Applications using MATLAB& Simulink		
		5.	EV Technology	32	130
		6.	Hands –On Robotics training	50	35
		7.	Application of Drones in Agriculture	33	45
5.	Quality circles and Practice: Outcome:	Quality circles are conducted for the course Electrical Machines-II inA.Y: 2024-25. **Outcome:**The performance of some of the slow learners is improved in continuous assessments and end semester examination.			
6.	Student counseling /mentoring mechanism	1.Proctor Dairy is maintained by all faculty. 2.Each faculty counselor is allotted a group of 18 students.Regularity of students is monitored by their counselors and class teachers for every 15 days. 3. Parents are informed about their wards who have attendance < 75% and marks <50% in internal assessment reports.Parent meet is scheduled at the start of academic year and whenever needed. 4.Whatsapp groups were created by counselors for their allotted students and important information is shared in the group whenever required. 5. Attendance of every class is posted in the whats app groups and monitored by the respective counselors . 6. Student group mail is created for circulating the information and placing e-content.		
7.	Initiatives taken for innovative mini and major projects -Training for students & faculty	• Encouraging the students to participate in training Programs at reputed Institutions. • Conducted workshops and Guest lectures by inviting industry experts on latest technologies. • Students are explored to real time problems. • Students are encouraged to publish their projects in reputed Journals and Conferences.			
8.	Best student projects with awards	**Best student Projects:** **The criteria for selecting best project includes:** • Innovation in the project			

		• Latest technology implemented in the project • Whether societal/environmental issues are addressed • Extent of implementation • Publications from the project work The evaluation for the above mentioned points will be done as per the Rubrics developed below. Reviewers are requested to give the grading in terms of A, B, C and D. A= Excellent B=Good C= Average D=Below Average 1. PLC-Based Automation for Multi-Tank Water Management System - B. R.Venkata Kishore, B. Prudhvi Narayana, A. Kiran Sai, S. Priyamallika, P. Sowmya Sri ratna Kumari. 2. A ROS-2 Powered Robot For Chili Farming: Enhancing Productivity And Sustainability - N. Naga Lakshmi Pujitha, G. Guru kavya, M. GiridharBabu, A. Pramod 3. Implementation of Model Predictive Direct Torque Control for Switch Reluctance Motor Drive J. Ramyasri, N. Ganesh
9.	Student Model developments: Awards:	**Student Model developments:** No of working models developed through Mini-1: 12 Major : 7 Awards: NIL
10.	Student Innovation details: Awards:	1.P.Sai Rama Krishna of 4/4 EEE got First prize (Rs 50,000/-) for Smart Bed in Business Ideas Contest organized by BharatiyaYuva Shakti Trust, Vijayawada. 2.B.Avinash of 4/4 EEE got Second prize (Rs 30,000/-) for E-Bicycle in Business Ideas Contest organized by Bharatiya Yuva Shakti Trust, Vijayawada. 3.The project titled "Automated Multipurpose Rock-Bottom Compact Machinery for Smart Agriculture" is selected by Bihar Government under small scale industries program and an amount of Rs.19,00,000/- is sanctioned along with half acre of land in Patna .
11.	Student Publications (other than IV.1) -UG: -PG:	UG:39 PG:02

12.	Monitoring of teaching-learning process -- Mechanism for Assessment of teaching process inclassrooms. -- Random verification of evaluated answer papers and question paper during the semester. -- Innovative teaching methods presented, if any -- Verification of course files	1.Assessment of teaching process in classrooms is monitored by Head of the Department through feedback and interaction. 2.Random verification of approximately 10-20 answer scripts have been evaluated for 5 courses during semester.Internal assessment question papers during the semester are verified. Blooms taxonomy as well as cognitive levels are verified. 3.The innovative teaching methods. • Lab taken to class(LTC) • Quality circles 4.All the course files were verified by both Program coordinator and HOD.
13.	Student enrolment in CBCS	1.Utilisation of Electrical energy (20EE6404A) -27 students 2. HVDC & Facts (20EE6404C) -20 students
14.	EPICS (Engineering projects in community service) Projects: Awards:	EPICS : 33 Batches MINI-1: 33 Batches Major : 36 Batches Awards: NIL
15.	Activities of students in professional bodies: Awards in co-curricular activities:	Activities were conducted for students as a part of IE chapter For details **Refer Annexure-VIII** Awards in co-curricular activities:NIL
16.	Training programs / Seminars/ workshops organized for students:	**Refer Annexure- IX**
17.	Guest lecturers conducted for Students:	**Refer Annexure- IX**
18.	MoUs with Industries for Research / Consultancy/ internship / placements, etc.	**Refer Annexure- X** Existing: 15 (Active) :13, Newly added :9, Total:13
19.	Students feedback	• The feedback collected twice in every semester at the beginning of Semester and at the end of semester from students on faculty teaching performance • Course end survey collected at the end of semester for each course. • Student exit survey collected every year from the students of outgoing batch on the entire program.
20.	Feedback follow-up action	Appreciation letters will be given faculty whose feedback score is more than 4.8 on a scale of 5 and advisory letters are given to the faculty whose feedback Score is less than 3.5.
21.	Scope for Self-learning: -Certificate courses -Online courses	Self-learning platforms are NPTEL ,Coursera and edx. 137 Students completed courses using NPTEL

		platform.
22.	Cut-off rank (Admission): Cut-off rank Previous year:……. OC: BC: SC: ST: PH: Audited year: ……. OC: BC: SC: ST: PH: Improvement / no change / decline ***Note: If there is <u>no improvement</u> it needs to discussed & suitable measures are to be taken up.***	For the Academic Year 2025-26 admissions are based on Siddhartha Entrance Exam as the Institution got Deemed to be University status.
23.	**Range of CGPA & % of students** 10 -8 CGPA: 7 CGPA: 6 CGPA: 5 CGPA: No. & % of failures: Success rate as per NBA guidelines:	Performance of students in Marks of batchwise of 2021-2025 Total no. of students:134 7.5-10 CGPA:48 (First class with distinction) First class:54 Second class:09 Pass percentage:111/134=82.84% No & percentage of failures: 23 & 23/134=17.16% Success rate as per NBA guidelines: Pass percentage without backlogs:101/134=75.37% (no of students who got CGPA >=7.75 were awarded with first class since they have written supplementary exams and no of such students in EEE=10)

IV. Research, Consultancy and Extension		
S. No	**Criterion**	**Observations**
1.	Faculty publications in journals: (other than III.11) Scopus indexed: SCI / SCIE (Not ESCI): Total: h-index: Dept & Highest in the faculty.	Scopus indexed 04 SCI/ SCIE 19 ESCI 09 Total 32 h-index Dept: 105 with reference to Google Scholar. Highest h-index: 19 - Dr.Subhojit Dawn
2.	Publications in conferences: - National (Scopus, SCI & equivalent) - International (Scopus, SCI equivalent) - Total:	National (Scopus, SCI & equivalent): NIL International (Scopus,SCI equivalent):56 Total: 56
3.	Faculty contribution in: ……..Books: ……..Book chapters: (Books/Chapters with ISBN/ISSN only are considered)	Books: 0 Book chapters:12
4.	Paper Publications & Book chapters:	Q1……5……, Q2…18…….., Q3……6……, Q4……1……Total…30……

5.	Government: Funded R&D projects	Applied:…06…….. Total Amount: Rs 2,75,00,000/- Ongoing: nil Total Amount: nil Completed: nil Total Amount: nil
6.	Non- Government: Funded R&D projects / Industry sponsored projects	Applied: nil Total Amount: nil Ongoing: nil Total Amount: nil Completed: nil Total Amount:nil
7.	Faculty involved in Consultancy & amount earned	Faculty involved in Consultancy: Dr.P.V.R.L.Narasimham Amount earned: 5,500/-
8.	Faculty intellectual property rights / Patents:	Filed: Published: 01, Granted:
9.	In-house R&D grants & projects and their outcomes	1. Dr. A. Rama Devi received an amount of Rs.1,40,000/- towards the project titled-" Multipurpose Rock-bottom Compact Machinery for Agriculture Sector". Outcome: This project was selected by Bihar Government under small scale industries program and an amount of Rs.19,00,000/- is granted along with half acre of land in Patna . 2. Dr. G. Srinivasa Rao received an amount of Rs. 1,50,000/- towards the project titled-" Hybrid Convertible Bed". Outcome: This project emerged as startup named as Pranayuv Technologies Pvt.Ltd
10.	New research facilities/ laboratory facilities added	1. Institution purchased Matlab online software from Mathworks which is renewed every academic year to provide technical computing and programming facilities for researchers, faculty and students. ThingSpeak , a cloud-based platform provided by MathWorks is also available in the Department Computer lab.
11.	MOU's with industries/ R&D/ Premier Institutes Details of activities:	There are 13 active MoUs in the Department **Refer Annexure-X**
12.	Research centers of excellence established: Outcome in research centers:	JNTUK recognized the Department as Research centre. Outcome: Six of the Departmental faculty are guiding research scholars.
13.	Skill development centers established: outcome:	1.Department has SEIMENS Lab setup through APSSDC which is considered as skill centre .There are 3 labs in SEIMENS skill centre . They are i)Energy Studies lab ii)Low voltage switchgear lab iii)Drives lab **Outcome:** Training programs for staff and students

		were organized in this centre.Lab experiments can be conducted in SEIMENS lab for PLC, SCADA based Projects/experiments. 2.To enhance skill development among students Robotics club is established Uchchaihshrava Agro Pilot was the product developed by students of the club. **Outcomes**: • Five students from the robotics club got paid internships. • Two students got an opportunity to do a paid internship at Peepuls Agri Ventures LLP, Hyderabad, with a pay of 15,000 per month. • Three students got an opportunity to do a paid internship at Flyway Innovation PrivateLimited, Bhopal, with a pay of 12,000 per month. • Two students got placed at Peepuls Agri Ventures LLP, Hyderabad, with a pay of 4 LPA. • One student got placed at Flyway Innovation Private Limited, Bhopal, with a pay of 4LPA. 3.Two autonomous drones Power Transmission Line survey and weather forecasting drones were built by students of Drones club. **Outcomes**: i) Four of the club students got a 16-week internship opportunity from Garuda Aerospace, Chennai. ii) One student got placed in Garuda Aerospace Pvt Ltd.
14.	Incubation centers: - Established with outside Industries : -Status of incubation:	Through Incubation lab two models –E-bike and Smart bed were developed and they were evolved as start-ups
15.	Start-ups & Entrepreneurships: No of Start-ups & status: Awards from outside platforms:	No of Start-ups: 03 Status: 1.Start-up registered - Chitti Motors Private Limited.This is related to manufacturing of low cost local mobility E -cycles and bikes. . 2.Start-up is in pre- commercial status- Pranayuv Technologies Pvt.Ltd .This is the Hybrid Convertible Smart Bed cum Wheelchair is designed for hospital in-patients and bedridden patients. . 3.Syncpedia Technologies Private Limited incorporated as a Private Limited Corporation on 06-05-2025 is recognized as a startup by the Department for Promotion of Industry and Internal Trade.The startup is working in IT Services Industry and IT Consulting sector.

V. Infrastructure and Learning Resources		
S. No	**Criterion**	**Observations**
1.	Addition of infrastructural facilities to improve the teaching learning process Class rooms / Laboratories /ICT class rooms / e- class rooms/ Seminar halls / Syndicate rooms /Innovation center:	Infrastructure to support Lab taken to class (LTC), Zoom, Google meet and Webex. ClassRooms:05 EE111,EE112, E113,EE201, E202) All classrooms have Overhead Projector and wifi facility. Laboratories:10+1 (Project room+Innovation center) Seminar halls: 02 (210A,210B) *Seminar halls are also used for ICT classrooms Syndicate rooms: Nil
2.	Internet facilities for faculty & Students:	1. The College has 2Gbps (Leased Line connections) Internet bandwidth to facilitate entire college with redundancy . The bandwidth is sourced from TATA Tele Services and Power Grid. 2. Presently, 200 access points have been installed to provide 24×7 Wi-Fi facility in the entire Campus & Hostels. All the Access Points are managed with wireless controller with licences. 3. The high-quality persistent bandwidth offers high speed and uninterrupted Internet connectivity from anywhere on the campus through the campus LAN& WiFi with Load Balancing & Network Redundancy Technology.The Campus has 2Gbps OFC backbone support with underground cabling . All Departments have CISCO network switches, which are connected to the central server room. No.of Wi-Fi points: 11 in the department
3.	Technical manpower support added:	Recruited one technical non- teaching staff
4.	Modern / new equipment added in Laboratories:	1. Battery Impedance Tester was added in Electrical Measurements Lab which costs Rs. 4,79,032/- and it can be availed by those working for Electric Vehicle Technology Lab 2. 10kV Digital Insulation Tester was added in HV Lab which costs Rs. 4,97,960/- 3. Texas instruments development boards &kits (TMS -320) were added to Power Electronics lab which costs Rs. 26,620/- that can be used by those working in Power Electronics area.

5.	New research facility /Computing facilities / laboratory added:	1. Institution purchased Matlab online software from Mathworks which is renewed every academic year to provide technical computing and programming facilities for researchers, faculty and students. Rs.14,43,435/- was the amount spent for the renewal. 2. ThingSpeak , a cloud-based platform provided by MathWorks is also available in the Department Computer lab. 3. Texas instruments development boards &kits (TMS -320) were added to Power Electronics lab that can be used by those working in Power Electronics area. 4. 10kV Digital Insulation Tester was added in HV Lab which can be used for testing Insulation of Electrical equipment. 5. Battery Impedance Tester was added in Electrical Measurements Lab which lets you perform simple tests to evaluate SoH of lead – acid, NiCd and lithium-ion batteries used in EV technology.BITE5 tester can perform tests on modules upto 200V.
6.	Dept. News letter / magazine:	Prepared Annually
7.	Department library: New additionsText books / References / Journals	Text Books/References : 35 Text books are added in the following areas i) Electric Vehicle Technology ii)Artificial Intelligence iii) Machine learning iv) Programming in Python v) Data Structures and Algorithms in Python Magazines:03 1.Electrical India 2.Electronics for U 3. IEEMA Journals: e- Journals IEEE: 90 ELSVIER:30

VI. Student information, Support and Progression

S. No	Criterion	Observations
1	Industrial visits	Four Industrial visits were arranged. 1. Kumar pumps & Motors, Tenali on 03-10-2024 &04-10-2024 for III year students 2. Electric Loco shed, Vijayawada on 30-09-2024 &01-10-2024 for II year students
2	Internships	III Year Students (6Weeks) Fulltime without Stipend : 130 Fulltime with Stipend :07

		IV year Students (16weeks) Fulltime with Stipend:24 Fulltime without Stipend:114 Internships through placements with Stipend :02
3	Dept. student clubs: Activities:	**Siddhartha Electrical Association(SEA)** **Clubs:** **Electric Vehicle Club (EV Club):** • Faculty incharge of this club is Dr.K. Dhananjay Rao • This club has 35 active members. . • Organised Three-day Workshop on "FPGA-Based Controller Design for Electric Vehicles" from 12/02/2025 to 14/02/2025 in which 40 students participated. • Value Added Course and Four-day workshop on -EV Technology was conducted from 13/02/2025 to 16/02/2025 in which 120 students participated. **Drones Club:** • Faculty incharges of this club are Dr.J.Vimala Kumari & B.Swarupa Rani • This club has 50 active student members from the departments of EEE, ECE & Mechanical.Training programs and workshops were conducted in regular intervals. • The Department has MOU with Garuda Aerospace Private Limited and Dronehub Technologies Private limited. • Two autonomous drones Power Transmission Line survey and weather forecasting drones were built by students of Drones club . • EEE Department organized a five -day workshop on Drone Dynamics and Drone Flying in collaboration with Garuda Aerospace for students of EEE,ECE and ME departments from 08-11-2024 to 12-11-2024 • Conducted a Two -day offline workshop on "Aerial Drone Technology – Mastering the Future of Drones "from 03/04/2025 to 04/04/2025

		• Drone Fusion Hackathon was conducted on 03/04/2025 & 04/04/2025. **Robotics Club:** • Faculty incharges of this club are Dr.T. Naveenkumar and V.RavindranathChowdary • This club has 40 active members with 20 students from EEE and 20 students from Mechanical Engineering. • Department has the MoU with Peepuls Agri Ventures LLP. • According to MoU company will provide 5 Lakhs per year to develop AGROBOT (Developing the robot in agricultural applications) • Resource persons fromPeepuls Agri Ventures LLP come during weekends to train the students. • **Uchchaihshrava Agro Pilot and Weed removal tool** projects are ongoing in the club.
4.	Details of coaching provided for GATE/GRE/any other competitive exams	----------
5.	Students qualified in -GATE -GRE/etc.	**Refer Annexure-XI**
6.	Students admitted for Higher studies (No & %):	One Student was admitted for Higher studies Percentage:01/134=0.74%
7.	Total Placements (No & %) in the Dept: 2 - 4 Lakhs (No.) 4 Lakhs above (No.): 5 Lakhs above (No.): Highest salary (No.): Median salary:	Total No of Students 134 Total No of eligible Students 111 Total No of Placements 184 Total No of Selected students 105 %Placements with respective Eligible Students: 105/111=94.59% % Placements with respective intake : 78.35% (105/134) 2 LPA to 4 LPA :154 4 Lakhs above (No.) (below 5LPA) :17 5 Lakhs and above (No.) :13 Highest Package : 7.5 LPA Average Salary : 3.87 LPA No of students placed in Core Companies : 132
8.	Student prizes:	NSS/NCC……..Cultural……..., Sports…… National Level, if any: NIL

9.	Student Scholarships:	• North-South foundation Scholarships: 07 • Central Government Scholarships : 02

VII. Governance, Leadership and Management		
S. No	**Criterion**	**Observations**
1.	Setting of annual goals by individual faculty for their academic improvement.	HoD collects the goals of faculty from every faculty member based on the goals set for the department for that academic year once in a semester.
2.	Setting of departmental annual goals by HOD for the improvement of dept.	• Improvement in Pass percentage, • Number increase in good quality of Publications, research funding from Industry/ alumni/ Non Govt., • Number increasing in filing patents • Improvement in placements and higher studies Incubation,startups and entrepreneurs etc.
3.	Teaching staff attended for skill development/ Industry training/ any professional development programs	1.Dr. P.V.R.L Narasimham , Dr. VimalaKumari J, Dr. D.Indira, Dr.K.DhananjayRao (K-Combinator, Manteca-95336, USA) 2.Dr.T.Naveen Kumar, V.Ravindranath Chowdary (e Yantra, IIT, Bombay) 3.T.Suneel(Tessolve Semiconductors Bangalore)
4.	Non-teaching staff attended for skill development programs	• Two-Day Skill Enhancement Program for Technical Non-Teaching staff (EEE, ECE,EIE,Mech, Civil, CSE,IT) on- Best Practices in Cable Jointing & Earthing Techniques is held on 18th&19th November-2024. • Two-Day Training Program on " PLC Programming & Applications" is held on 8th&9th January 2025 for all the non-teaching staff. • Two members of non teaching staff attended the Training Program on Cyber Guard Awareness& Protection Strategies Organised by Computer Science and Engineering Department SAHE, Vijayawada on March 1st, 2025.
5.	Financial support received from the Management: Seed Grant for faculty: Incentive for Sponsored projects: Incentive for paper publications: Attending FDPs/ Seminars/ etc:	Seed Grant for faculty: Incentives for Sponsored projects: 1. Dr. A. Rama Devi received an amount of Rs.1,40,000/- towards project titled- Multipurpose Rock-bottom Compact Machinery for Agriculture Sector.(for 3 years)

	Attending overseas seminars: Interaction with R & D personnel: Others:	2. Dr. G. Srinivasa Rao received an amount of Rs.1,50,000/- towards project titled- Hybrid Convertible Bed. (for 3 years) Incentives for paper publications: Department faculty received an amount of Rs.3,11,500/- towards incentives for paper publications for the A.Y:2024-25.
6.	Financial support received from the Management: Student Projects: Model developments & exhibition: Student Innovations & exhibition:	Financial support received from the Management: Student Projects: 1.Robotics club received an amount of 3,54,000/- from management to join eLsi program offered by eYantra IIT Bombay during the A.Y :2024-25. 2. Drones club was sanctioned an amount of Rs.9,15,900/- for conducting workshops and Hackathon in the A.Y :2024-25. 3.EV Club was sanctioned an amount of Rs. 90,000/- for conducting Hands on training session for students during A.Y:2024-25. For Model developments & exhibition: Received a total amount of Rs. 8000/- towards first prize(Rs.5000/-) and second prize (Rs.3000/-)winners of models exhibited as part of Innovation day celebrations on 15th Oct,2024.
7.	Quality policy & Quality objectives Committees & duties: Cells & duties:	**Quality Policy:** VRSEC strive to impart Knowledge, Skills and Attitude through continuous improvement to meet the ever-changing needs of Industry and for the Sustainable Development of society. **Quality objectives:** 1.Excellence in Teaching and Learning. 2.Comprehensive professional growth of students. 3.Enhancing R&D activities. 4.Revising the curriculum according to industry needs. 5.Involving an industry in academic activities of the department. **Committees:** 1.Program Assessment Committee (PAC) 2.Department Advisory Board (DAB) 3.Board of Studies(BOS) 4.Module coordinator committee 5.Course coordinator committee

8.	Maintenance -General -Laboratory -Others	• Periodical maintenance of Academic facilities and physical facilities are well maintained. • Budget utilized for laboratory maintenance : Rs 3,83,104/-(Recurring)
9.	Financial support/ leaves for qualification/ skill up- gradation:	1 Financial support: An amount of Rs.36,942/- was received for conducting training programs to non-teaching staff as a part of skill updation. 2.Leaves: Special Casual leaves and OD will be provided for faculty pursuing P.hD.
10.	Risk evaluation/ safety measures:	The following safety measures are incorporated to mitigate the risk. • First aid kit, • Fire extinguisher • Electrical safety mats Display of emergency phone nos.

…….. **…….** **…….**

Dept. IQAC In-charge **Academic Auditor** **Head of the Dept.**

Academic Audit Report (Consolidated)

1. **Name of Department :** Electrical & Electronics Engineering Year: **2024-25**
2. **No. of full time permanent faculty**: 25
3. **No. of Visiting/Adjunct faculty**: 01
4. **No. of PG / UG courses**: PG:01, UG:63
5. **Curriculum Revisions Information**: UG : VR20,VR23, SU24
   Major changes: Nil
   New courses: Nil Modified courses (min 20-25% change) :38 Employable courses : 41
6. **Research**: Ph.D. Theses submitted: nil awarded:01
   Faculty guiding / guided Ph.Ds:06/
   Publications in Jrs: SCI/SCIE: 19 Scopus:4 ESCI: 9 Total: 31, UG-01
   Publications in Conferences: SCI/SCIE: nil Scopus:56 Total:56
   Student Publications
   -UG: SCI/SCIE: nil Scopus: 39 WoS: Others: Total
   -PG: SCI/SCIE: nil Scopus: 02 WoS: Others: Total.
   Dept H-index (Scopus data base): 105 Highest H-Index of faculty: 19
   Publications: Q1 :5, Q2:18, Q3:6 , Q4:1 Total 30
7. **Sponsored projects: A**mount: Rs.2,75,00,000/- Applied:6 Ongoing: nil ,completed: nil
8. **Consultancy Amount earned:** 5,500/-
9. **Start-ups & Entrepreneurship**: No:03 Awards from outside platforms: Nil
10. **Incubation centers:** established: Two working models were developed , Status of incubation: 3 start-ups were initiated.
11. **Patents**: Filed: Published: 01 Granted: nil
12. **Innovations**:Three Projects, Awards from outside platforms (reputed Institutions only) : Nil.
13. **Books / Book chapters** (with ISBN/ISSN only are considered): Nil/ 12
14. **e-Content developed:** Lectures added to Web-resources: Lecture videos for few subjects were available on youtube channel.
15. **Placements:** No: 184 Percentage:78.35, Median salary: 3.87 LPA , Highest salary: 7.5LPA
16. **Higher Education:** GATE No: 01, GRE No: Nil , Others (specify): Nil %:,
17. **New Equipment and Infrastructure** added: Rs.44,05986/- towards **Equipment**
    Rs.3,64,462/- towards **Infrastructure**
18. **Student feedback** on Curriculum, infrastructure and facilities: Yes
19. **Strengths**:

(1) Faculty members are actively contributing in Industry Collaborations.
(2) Students placements are more in number and more faculty are contributing in placementsfor students.
(3) Department has introduced seven value added courses for AY:2024-25
(4) Department is maintaining good Teacher-Student ratio and Cadre ratio,faculty experience and retention ratio are also good.

20. **Weaknesses** (mandatory field to fill) :

(1) No faculty contributions in Institute (IIT's /NIT's) Collaborative projects.
(2) No funded R&D Projects in the Department this needs to be focused.

21.**Suggestions for improvement** (mandatory field to fill):

(1) GATE coaching classes may be organized .
(2) MoUs with Premier Institutions IIT's /NIT's may be executed.

18. Document addressing previous academic year weaknesses and suggestions for improvement.
Enclosed: **Yes / No**. If '**yes**' enclose an appropriate document. If "**No**" furnish proper explanation.
Yes

……..	**…….**	**…….**
Dept. IQAC In-charge	Academic Auditor	Head of the Dept.

IQAC Coordinator…… Dean IQAC: …….

Annexure –I

New Subjects Introduced and modified for A.Y: 2024-25

S.no	Programme Code	Year of revision, if any	Course Name	If revision has been carried out in the syllabus during the year, percentage of content added or replaced
1	23EE5301	2024-25	Microcontrollers	25 %
2	23EE5302	2024-25	Power Generation and Transmission	10 %
3	23EE5303	2024-25	Power Electronics	10 %
4	23EE5404A	2024-25	Advanced Control Systems	00 %
5	23EE5404B	2024-25	Solar Photovoltaics	30 %
6	23EE5404C	2024-25	Artificial Neural Networks and Fuzzy Logic	50 %
7	23EE5404D	2024-25	Data Communication and Networking	00 %
8	23EE5205A	2024-25	Waste to Energy Conversion Technology	20 %
9	23EE5205B	2024-25	Energy Conservation & Audit	20 %
10	23EE5351	2024-25	Microcontrollers Lab	50%
11	23EE5352	2024-25	IOTLab	50 %
12	23EE5153	2024-25	Data Systems	100 %
13	23EE5354	2024-25	Epics	00 %
14	23TP5106	2024-25	Personality Development	60 %
15	23EE6301	2024-25	Power System Analysis	20 %
16	23EE6302	2024-25	Industrial Drives	00 %
17	23EE6303	2024-25	Power System Protection	15 %
18	23EE6404A	2024-25	Electrical Distribution system	30 %
19	23EE6404B	2024-25	Programmable Logic	00 %

			Controller	
20	23EE6404C	2024-25	Optimization Techniques	10 %
21	23EE6404D	2024-25	Digital Signal Processing	10 %
22	23EE6405A	2024-25	VLSI design	00 %
23	23EE6405B	2024-25	Embedded Systems	15 %
24	23EE6405C	2024-25	Digital Design with FPGA	5 %
25	23EE6453D	2024-25	Digital Controllers	00 %
26	23EE6351	2024-25	Power Electronics Lab	10 %
27	23EE6352	2024-25	Power Systems Lab	60 %
28	23HS6153	2024-25	Advanced Communication Skills Lab	100 %
29	23TP6107	2024-25	Quantitative Aptitude	35 %
30	23MC6107B	2024-25	Technical Paper Writing & IPR	100 %
31	24MA202	2024-25	Complex Analysis, Transform Techniques & Statistics	100 %
32	24EE201	2024-25	AC Network Analysis	30 %
33	24EE202	2024-25	Analog Electronics	55 %
34	24EE203	2024-25	DC Machines & Transformers	20 %
35	24EE204	2024-25	Digital Electronics	10 %
36	24EE281	2024-25	DC Machines & Transformers Lab	30 %
37	24EE282	2024-25	Analog & Digital Electronics Lab	30 %
38	24UC201	2024-25	Universal Human Values-II	00 %

Courses focusing on employability/ skill development/entrepreneurship (63 courses):

S No	Course	Number	Percentage
1	Employability	34	34/63 = 53.96
2	Skill development	18	18/63 = 28.57
3	Entrepreneurship	5	5/63 = 7.93

Courses offered by University

Name of the Course	**Course Code**	**Activities/Content with a direct bearing on Employability/ Entrepreneurship/ Skill development**
Transformation and Numerical Methods	23BS3101D	Employability
Universal Human Values – Understanding Harmony	23HS3102	Entrepreneurship
Electronic Circuits	23EE3103F	Employability

Electrical Circuit Analysis-II	23EE3304	Employability
Electrical Machines-I	23EE3305	Employability
Logic and Reasoning	23TP3106	Entrepreneurship
Environmental Science	23MC3107	Entrepreneurship
Python Programming lab	23EE3651	Skill Oriented
Electrical Machines-I lab	23EE3352	Employability
Electronics lab	23EE3353	Employability
Innovation, IPR & Entrepreneurship	20MC5108B	Entrepreneurship
Data Structures Lab	20EE5607	Skill Oriented
Waste to Energy Conversion Technology	20EE5205	Employability
Energy Conservation & Audit	20EE5205	Employability
Power Electronics	20EE5302	Employability
Microcontrollers	20EE5301	Employability
Power Generation and Transmission	20EE5303	Employability
Personality Development	20TP5106	Skill Oriented
Power System Analysis	20EE6301	Employability
Power System Protection	20EE6302	Employability
Advanced Communication Skills Lab	20HS6153	Skill Oriented
Quantitative Aptitude	20TP6106	Skill Oriented
Power System Operation & Control	20EE7301	Employability
Optimization Techniques	20EE7402A	Skill Oriented
Introduction to Smart Grid	20EE7402B	Employability
Industrial Drives	20EE7402C	Employability
VLSI Design	20EE7403A	Employability
Embedded Systems	20EE7403B	Employability
Digital Design with FPGA	20EE7403C	Employability
Electrical Distribution System	20EE7404A	Skill Oriented
High Voltage Engineering	20EE7404B	Skill Oriented

Power Quality	20EE7404C	Skill Oriented
Advanced Control Systems	20EE5404A	Employability
Solar Photovoltaic's	20EE5404B	Employability
Artificial Neural Networks and Fuzzy Logic	20EE5404C	Employability
Data Communication and Networking	20EE5404D	Employability
IoT Lab	20EE5353	Skill Oriented
Data Structures Lab	20EE5607	Skill Oriented
Utilization of Electrical Energy	20EE6404/A	Skill Oriented
Programmable Logic Controller	20EE6404/ B	Employability
Hvdc & Facts	20EE6404/C	Skill Oriented
Machine Learning Using Python	20EE6205/A	Skill Oriented
Electric Vehicles	20EE6205/ B	Skill Oriented
Power Systems Lab	20EE6351	Employability
Simulation of Electrical Systems Lab	20EE6352	Employability
Foreign Language	20MC6107	Employability
Basic Electrical and Electronics Engineering	23ES1103B	Skill Oriented
Basic Electrical and Electronics Workshop	23ES1153	Skill Oriented
Electric circuit analysis	23PC2104D	Employability
Design Thinking	23MC2106	Employability
Basic Electrical and Electronics Engineering	23ES2103B	Skill Oriented
Electric circuit analysis lab	23PC2152D	Skill Oriented
Electric circuit analysis	23ES2153	Employability
Engineering Economics and Management	23HS4101	Entrepreneurship
Electrical Measurements and Sensors	23ES4102D	Employability
Electrical Machines-II	23EE4303	Employability
Linear Control Systems	23EE4304	Employability
Linear Integrated Circuits & Applications	23EE4305	Employability
English for Professionals	23TP4106	Skill Oriented
Data structures using Python	23EE4651	Skill Oriented
Design Thinking & Innovation	23ES4152	Entrepreneurship
Electrical Machines-II lab	23EE4353	Employability

Linear Integrated Circuits Lab	23EE4354	Employability

Annexure-II

New Lab equipment details Academic Year :2024-25

S.no	Name of existing/ New Laboratory	Details of equipment(along with count)	Total Amount spent	New experiments introduced if any (name)	New Hardware/ Software introduced(name)
1.	Robotics lab in association with eYantra team IIT Bombay	ATmega2560 Development Board ------1 LPC2148 Development Board ------1 P89V51RD2 Development Board ------1 Raspberry-Pi 3 ------6 Micro SD card (16 GB) ------6 USB Adapter 2A ------6 NRF24L01 ------4 Zigbee Modules 100m range ------6 Zigbee Modules Adapter ------6 TCS 3200 based color sensor module ------4 GY87 ------4 Servo motor based Gripper Kit ------1 HD USB WebCam ------2 Metal-gear Servo Motors ------10 ESP8266 Development Board ------4 ESP32 Development Board ------6 2-Channel Relay Board (12 volt) ------2 2-Channel Relay Board (5 volt) ------2 STM32 Nucleo boards ------2	Rs.3,54,000/-	-----	-----

		Tiva Launchpad ------2 Motor Driver Module(Rating: 8amp and 6V-36V) ------6 Quad Encoder Geared DC Motor 200 RPM, 12 V DC ------8 Micro Servo motor ------5 Altera Cyclone IV FPGA , DE0-Nano -----2			
2	HV Lab	10kV Digital Insulation Tester	Rs.4,97,960 /-	-----	-----
3	Electrical Measurements and Control systems lab	Battery Impedance Tester.	Rs.4,79,032.80/-	-----	Battery Impedance Tester.
4	Computer center III/ IoT lab	Raspberry pi5 with screen, casing and connections---27	Rs.4,61,870/-	1.LED blinking using Raspberry Pi 2.Temperature monitoring with Raspberry Pi using IoT 3.Moisture content detection in soil using Raspberry Pi 4.ON/OFF control of DC motor using Raspberry Pi 5.Security system with PIR sensor using Raspberry Pi 6.Weather monitoring system with Raspberry Pi using IoT	
5	UG Computer Lab	HP pro Tower 400 G9 (Intel i5-13th gen, 16 Gb RAM, 512Gb SSd, Nvidia Gt710 Gb Graphic card)	Rs.24,76,575/-	-----	-----

6	Power Electronics Lab	Texas instruments development boards &kits - TMS -320	Rs. 26,620/ -	-----	------
7.	Power Systems lab	Fluke 117 True-rms Digital Multi meter	Rs.38,138/-		
		1.Portable Analog UPF Wattmeter, 150V/300V/600V, 5A/10A Make: AE-2 2.Portable Analog LPF Wattmeter, 75V/150V/300V, 1A/2A Make: AE-2 3.Portable Analog Voltmeters (MI) -15V/30V Make: AE-2 4. Portable Analog Voltmeters (MI) - 75V/150V/300V Make: AE-2 5. Portable Analog Ammeter (MI)-1A/2A Make: AE-4 6. Portable Analog Ammeter (MI)-2.5A/5A Make: AE-4 7. Portable Analog Ammeter (MI)-5A/10A Make: AE-4. 8.Portable Analog Ammeter (MI)-20A/30A Make: AE-2	Rs.71,791/-		

Annexure - III
Faculty as Editors / Reviewers A.Y : 2024-25

S.no	Faculty Name	Journal name (Scopus/SCI)	ISBN/ISSN	Editorial/ Reviewer
1	Dr.G. Srinivasa rao	Transactions on Consumer Electronics (SCI)	0098-3063	Reviewer
2	Dr.G. Srinivasa rao	Journal of The Institution of Engineers (India): Series B (IEIB) (SCOPUS)	2250-2114	Reviewer
3	Dr. B. Venkateswara rao	Alexandria Engineering Journal (SCI)	1110-0168	Reviewer
4	Dr. B. Venkateswara rao	Applied Energy (SCI)	0306-2619	Reviewer
5	Dr. B. Venkateswara rao	Energy Reports (SCI)	2352-4847	Reviewer
6	Dr. B. Venkateswara rao	International Journal of Electrical Power & Energy Systems (SCI)	0142-0615	Reviewer
7	Dr. B. Venkateswara rao	Journal of Engineering Research (SCOPUS)	2307-1885	Reviewer
8	Dr. B. Venkateswara rao	International Journal of Research Publication and Reviews (IJRPR)	2582-7421	Editorial Board Member
9	Dr. B. Venkateswara rao	Journal of Advance Research in Electrical & Electronics Engineering	2208-2395	Editorial Board Member
10	Dr. B. Venkateswara rao	Journal of Advances in Electrical Devices	-	Editor-in-Chief
11	Dr. Subhojit Dawn	Journal of Electrical Engineering & Technology (Springer) (SCI)	2093-7423	Associate Editor
12	Dr. Subhojit Dawn	Smart Grids and Sustainable Energy (Springer) (ESCI)	2731-8087	Associate Editor
13	Dr. Subhojit Dawn	IET Energy Systems	2516-8401	Reviewer

		Integration (SCI)		
14	Dr. Subhojit Dawn	IEEE Access (SCI)	2169-3536	Reviewer
15	Dr. Subhojit Dawn	IEEE Transactions on Industrial Informatics (SCI)	1551-3203	Reviewer
16	Dr. Subhojit Dawn	IET Power Electronics (SCI)	1755-4543	Reviewer
17	Dr. Subhojit Dawn	IET Generation, Transmission & Distribution (SCI)	1751-8687	Reviewer
18	Dr. Subhojit Dawn	IEEE Transactions on Sustainable Energy (SCI)	1949-3029	Reviewer
19	Dr. Subhojit Dawn	Energy Exploration & Exploitation (SCI)	2048-4054	Reviewer
20	Dr. Subhojit Dawn	IEEE Transactions on Intelligent Transportation Systems (SCI)	1524-9050	Reviewer
21	Dr. Subhojit Dawn	Environmental Claims Journal (ESCI)	1040-6026	Reviewer
22	Dr. Subhojit Dawn	Energy & Environment (SCI)	2048-4070	Reviewer
23	Dr. Subhojit Dawn	Energies (SCI)	1996-1073	Reviewer
24	Dr. Subhojit Dawn	Processes (SCI)	2227-9717	Reviewer
25	Dr. Subhojit Dawn	Electronics (SCI)	2079-9292	Reviewer
26	Dr. Subhojit Dawn	Sustainability (SCI)	2071-1050	Reviewer
27	Dr. K Dhananjay Rao	IEEE Access (SCI)	2169-3536	Reviewer
28	Dr. K Dhananjay Rao	IEEE Transactions on Transportation Electrification (SCI)	1524-9050	Reviewer
29	Dr. K Dhananjay Rao	International Journal of Ambient Energy (SCI)	2045-2322	Reviewer
30	Dr. K Dhananjay Rao	Scientific Reports (SCI)	2045-2322	Reviewer
31	Dr. K Dhananjay Rao	Ionics (SCI)	1862-0760	Reviewer
32	Dr. D. Indira	e-Prime - Advances in Electrical Engineering, Electronics and Energy (ESCI)	2772-6711	Reviewer
33	Dr. D. Indira	International Journal of Circuit	1097-007X	Reviewer

		Theory and Applications (SCI)		
34	V. Bindu	e-Prime - Advances in Electrical Engineering, Electronics and Energy (ESCI)	2772-6711	Reviewer
35	V. Bindu	Discover Journal (ESCI)	2730-7719	Reviewer
36	V. Bindu	Fraklinopen (ESCI)	2773-1863	Reviewer

Annexure - IV
Faculty trained in Industry

S.No	Name of the Faculty	Designation	Name of the Training program	Duration	Name of the Industry
1	Ravindranadh V	Assistant Professor	Introduction to Embedded Systems and Robotics	2 Days	Eyantra
2	Naveen Kumar T	Assistant Professor	Introduction to Embedded Systems and Robotics	2 Days	Eyantra
3	Ravindranadh V	Assistant Professor	eLSI: Basics of Embedded Systems and Robotics	3 Months	Eyantra
4	Naveen Kumar T	Assistant Professor	eLSI: Basics of Embedded Systems and Robotics	3 Months	Eyantra
5	Dr.A.Veera Reddy	Assistant Professor	Training and Orientation Program on Drone Technology	12/05/2025 to 18/05/2025 (7 days)	Garuda Aerospace Pvt Ltd.
6	T Suneel	Assistant Professor	STE-SDC Training	02/12/2024 to 07/12/24	Tessolve Semiconductor Pvt.Ltd.
7	Dr. Vimala Kumari J	Assistant Professor	Neuromorphic Engineering	08/06/2024 to 24/09/2024	K-Combinator, Manteca-95336, USA
8	Dr.D.Indira	Assistant Professor	Neuromorphic Engineering	08/06/2024 to 24/09/2024	K-Combinator, Manteca-95336, USA
9	Dr.K.Dhanajaya Rao	Assistant Professor	Neuromorphic Engineering	08/06/2024 to 24/09/2024	K-Combinator, Manteca-95336, USA

Annexure – V
Faculty contributions for making MOUs

S.no	Faculty name	Organisation name
1	Dr.J.Vimala Kumari	Garuda Aerospace Pvt Ltd, Chennai
2	T.Suneel	Tessolve Semiconductor Pvt.Ltd
3	Dr.PVRL Narasimham	OI tech solutions
4	Dr.D.Indira/K Dhananjay Rao	Sytiqhub EV Pvt Ltd
5	Dr.D.Indira	SRM University AP
6	Dr.D.Indira / Dr.SNVK Chaitanya	Hitech Automation
7	Dr.D.Indira	Jesvid Cryo Technologies Pvt. Ltd
8	Dr.J.Vimala Kumari /Dr.N.Vamsi Krishna	Soft Houz, Hyderabad
9	Dr.J.Vimala Kumari	Drone Hub Technologies Pvt Ltd, Vijayawada

Faculty Contribution for Arranging Internships in A.Y 2024-2025

S.no	Faculty Name	Organisation Name	No of Students
1	Dr.PVRL Narasimham	KCP Limited	6
2	Dr.D.Indira	NIT-AP	10
3	Dr.SNVK Chaitanya	Hitech Automation	15
4	Dr.D.Indira	Ndeep Connect Pvt.Ltd	26
5	Dr.PVRL Narasimham	SYTIQHUB EV Solutions PVT Ltd	6
6	Dr.D.Inidra	Radhanu Technologies Pvt Ltd	3
7	Dr.J.Vimala Kumari	Garuda Aerospace	4
8	Dr.J.Vimala Kumari	IIT TirupatiNiF	4
9	Dr.N.Vamsi Krishna	Soft Houz Pvt.Ltd.	2
10	Dr.T.Naveen Kumar	Peepul Agri Ventures LLP	4
11	T.Suneel	Siri power system Pvt .Ltd	3
12	Dr.D.Indira	Premier energies Pvt Ltd	6
		AICTE-Eduskills	6
		Skill dezire	63

Annexure – VI

Faculty as Resource Persons in STTPs/FDPs

S.no	Name of the Faculty as Resource Person	Name of the STTP/FDP	Dates	Organised by
1	Dr.K Dhananjay Rao	A 13 days ATAL FDP on "Navigating the Future: A Deep Dive into Autonomous Vehicles – Theory to Practice"	02/12/24 to 14/12/24	ATAL FDP, Dhanekula Institute of Engineering & Technology (DIET) Vijayawada
2	Dr.K Dhananjay Rao	ElectricVehicles, Challenges and Job Opportunities	13/08/2024	Usha Rama College Of Engineering And Technology Vijayawada
3	Dr G Srinivasa Rao	FDP on Design Thinking and Innovation	05/12/24 to 06/12/24	BVC College of Engineering Amalapuram
4	Dr G Srinivasa Rao	FDP on Design Thinking and Innovation	15/07/24 to 20/07/24	V R Siddhartha Engineering College Vijayawada
5	Dr G Srinivasa Rao	Inspire to Innovate	6 th July 2024	APRDC Nagarjuna sagar
6	Ravindranadh Chowdary V	FDP on Problem Solving with Python	12/06/24 to 02/07/24	Dyanahitha Educational Society Hyderabad

Annexure – VII

Faculty interaction with outside world for AY: 2024-25

S.no	Name of the Faculty	Designation	Name of the Event	Duration	Organized by
1	Dr.G.Srinivasa Rao	Associate Professor	BOS Member	16-07-2024	RK College of Engineering
2	Dr.G.Srinivasa Rao	Associate Professor	BOS Member	18-09-2024	Mother Teresa Institue of Science and Technology
3	Dr.G.Srinivasa Rao	Associate Professor	Acted as subject expert for ratification of Asst prof, Assoc prof	27-12-2024	RK College of Engineering
4	Dr.G.Srinivasa Rao	Associate Professor	Acted as member of Vocational intermediate Curriculum revision	16/12/2024 & 17/12 2024	Director of Intermediate Education

S.no	Professional Chapter	Type of Event	Date	Topic	No of students
1	IE(I)	Workshop	06-11-24	Group discussions	18
2	IE(I)	Seminar	09-11-24	Technical quiz	43
3	IE(I)	Guest Lecture	16/11/24	Electric vehicles, challenge and opportunities	35
4	IE(I)	Guest Lecture	17/12/24	Efficiency and Energy Conservation	60
5	IE(I)	Workshop	09-01-25	Tech Fest (UTSAV-25)	200
6	IE(I)	Outreach Program	07-02-25	Awareness camp on Energy Conservation	29

Annexure- VIII
Activities of Students in Professional bodies A.Y:2024-25

7	IE(I)	Outreach Program	10-02-25	Awareness camp on renewable energy	29
8	IE(I)	Workshop	13/02/25-16/02/25	Hands on training on Electric Vehicles	120

Annexure- IX

Training programs / Seminars/ workshops Organized by the Department for Students AY. 2024-25

S. No	Name of the Program	Date of the Program	Duration of the Program	Name of the Speaker & Designation and Organization	No. of People Attended
1.	2024 International Conference on Computational Intelligence for Green and Sustainable Technologies (ICCIGST)	18-19 July 2024	2 days		
2.	Guest Lecture on Advanced	14-09-2024	1 day	Dr.Kiran Kumar Nallamekala, Assistant Professor, Dept. of EEE,	54

	Power Converters for EV Applications			SRM University, AP	
3.	Guest Lecture Guest Lecture on Evolution of Power Sector and Commercial Issues	21-09-2024	1 day	Sri. B. Ramachandra Rao, Ret. Chief General Manager, NTPC	42
4.	Five-day Workshop on Drone Dynamics and flying	08-11-2024 to 12-11-2024	5-days	Garuda Aerospace, Chennai	30
5.	Skill Enhancement Program on *Best Practices in Cable Jointing & Earthing Techniques*	18-11-2024 to 19-11-2024	2-days	Sri M. Narayana Prasad	45
6.	Energy Efficiency & Energy Conservation by	17-12-2024	1 day	Mr. KOLLA CHINNI BABU, manager of Energy Efficiency Services Limited (EESL)	50
7.	Endowment Lecture on Defence Technologies -The Role of Electrical and Electronics Engineers"	04-01-2025	1 day	Dr. Sriram Sista, Scientist G in DLRL-DRDO, Project Director for Radar Signal Seeker RudraM2 missile, Pune	62
8.	Workshop on PLC Programming & Applications	08-01-2025 to 09-01-2025	2-days	Hitech Automation, Vijayawada	36
9.	Guest lecture on Design	10/01/2025	1 day	Sri.M.Srivardhan sarma, Junior Electronics Engineer,	48

	and Implementation of Power Converters			OI Tech solutions pvt ltd	
10.	Online Webinar on Electronics for a career	30/01/2025	1 day	Dr. Roshan, Director, OI Tech solutions pvt ltd	32
11.	7-day training program on employability skills by Nandhi foundation	27/01/2025 to 03/02/2025	7 days	Taluri Madhu babu Trainer, Nandhi foundation	35
12.	3-days Workshop on "FPGA-Based Controller Design for Electric Vehicles	12/02/2025 to 14/02/2025	3 days	Dr. V. Sandeep, Assistant Professor, NIT-AP & Dr. L N Sastry Varanasi, Director, M/s. NDEEP CONNECT Pvt. Ltd., Hyderabad.	40
13.	Value Added Course-EV Technology Four-day workshop on EV Technology	13/02/2025 to 16/02/2025	4 days	SYTIQHUB EV PVT LTD	120
14.	Drone Fusion Hackathon	03/04/2025 & 04/04/2025	2 day	Sri.V.Sadhasivan Girish, Chief Pilot officer, Aarav Unmanned Solutions Pvt.Ltd	43 teams
15.	2-DAY OFFLINE WORKSHOP ON Aerial Drone Technology – Mastering the Future of Drones	03/04/2025 to 04/04/2025	2 days	Kvanttik Solutions	63
16.	Online Webinar on Job	16th April 2025	1 day	Ms.Apoorva, Physical Dsigner, Takshila VLSI, Bangalore, Karnataka	104

	opportunities in VLSI/ Semiconductor Industry				
17.	Skill Development Program on Operation and Maintenance of High Voltage Engineering Laboratory for Technical Staff	13th May 2025	1 day	Mr. Sangram Simpi, CTO, Sistech HV Systems, Bangalore	9
18.	A two-day workshop on "Testing Electrical Apparatus Using 10kV Digital Insulation Tester"	14th and 15th May 2025	2 days	Mr. Sangram Simpi, CTO, Sistech HV Systems, Bangalore.	8
19.	One-Week Online Faculty Development Program (Joint-FDP) on "Smart Grid	2nd to 6th June 2025	One week	1. Dr. D.Raveendhra, NIT Allahabad, Uttar Pradesh 2. Dr P.E.S.N Raju, IIT, Guwahati 3. Mr. Ch.Sreekanthreddy Ford, Michigan, USA 4. Dr. Manohar Mishra, SoA University, Bubaneswar 5. Dr. Sonti Venu NIT,	50

	Integration & Renewable Energy for Electric Mobility			Raipur	
20.	Training & Project Development Programme on Drone Technology	Saturdays and Sundays from February to March	9:30AM-5:00PM	Mr.Mohan Shanmukh Tech Lead & Trainer from Full Throttle RC India.	78

ANNEXURE- X

LIST OF ACTIVE MoU'S

S.No.	MoU With	Purpose of MoU	Date of MoU	Duration of MoU & Status
1.	APSSDC – Siemens	To provide Infrastructure in college laboratories, skill up-gradation of faculty and students, update course curriculum to suit modern industrial practices and promotes research and development and innovation for existing industries.	11/11/2017	**Till date**
2.	Energy Efficiency Services Limited (EESL), Noida	To Provide training, awareness meeting, workshops and promotion of energy efficiency appliances on mutually exclusive basis	28/08/2017	**Till date**
3.	Peepul Agri Ventures LLP, Guntur	student internships/Major projects	Sep 2023	**5 years**

4.	Skilldzire Technologies private ltd, Hyderabad	student internships/Placement	Sep 2023	**5 years**
5.	GARUDA AEROSPACE PVT LTD, Chennai	To train the students and faculty, provide placement opportunities, conducting National Drone Events/Competitions.	09/08/2024	**3 years**
6.	Tessolve Semiconductor Pvt.Ltd	To offer STE-SDC course to ECE/EEE/IE undergraduate students	01/11/2024	**3 years**
7.	Hitech Automation	Conducting training programme, internships, workshops, and other events for the benefit of the faculty and students. provide placement assistance to the students as needed.	07/12/2024	**6 years**
8.	OI tech solutions	Offering jobs to students, provide technical free/paid internships, offering the final year projects to the students, training to the faculty on designing industrial products and offering of R&D projects, conducting state and national level Robotics/Electronics design contests and hackathons.	08/02/2025	**6 years**
9.	SytiqHub	Conducting training programme, internships, workshops, and field trips for the benefit of the faculty and students. To train the students at their project sites.	15/02/2025	**6 years**
10.	SRM University AP	Conducting internships, workshops, and other events for the benefit of the faculty and students.	23/01/2025	**3 years**
11.	JESVID CRYO Technologies Pvt. Ltd	Conducting training programme, internships, workshops, and other events for the benefit of the faculty and students. To train the students in their project.	17/03/ 2025	**6 years**
12.	Soft Houz, Hyderabad	Conducting training programme, internships, workshops, provide placement opportunities, providing inputs to enhance the curriculum and be an advisory from the capacity of an industry expert in Aeronautical field (Drones).	30/04/2025	**6 years**
13.	Drone Hub Technologies Pvt Ltd, Vijayawada	Conducting training programme, internships, workshops, provide placement opportunities, providing inputs to enhance the curriculum and be an advisory from the capacity of an	24/03/2025	**3 years**

		industry expert in advancing autonomous drone applications.		

Annexure- XI

No. of Students cleared GATE/CAT/any other Competitive Examinations

Academic Year 2024-25

S.No.	Roll No	GATE H.T.No.	Name	Score	Rank	Exam Qualified
1	228W5A0214	EE25S46118331	Venkatesh Varma	31.33	4523	GATE
2	228W1A0221	EE25S46114170	Teja Sri(III/IV)	28.67	5846	GATE
3	238W5A0233	EE25S46115170	Tadikonda Sai Siddhardha(III/IV)	25.67	7724	GATE
4	218W1A0265	EE25S46115082	Ele Nishanth	20.6	12647	GATE
5	218W1A0246	EE25S46115329	Tirumanapalli Akesh	19.33	14452	GATE
6	218W1A0203	EE25S46118067	BanavathuKarthik Naik	16.67	19014	GATE
7		501552	M.V.V.S.K.Akash			IELTS
8	218W1A0211		G.Swathi			Duolingo

Higher Studies

S.No	Roll No	Name of the Student	Higher Study Program Name	Admission Details (Name of the Institution/University)	Place	Score	Rank
1	228W1A0203	B.Karthik Naik	M.Tech	NIT,Calicut	India	16.67	19014