INTERNAL QUALITY ASSURANCE CELL (IQAC) V R SIDDHARTHA ENGINEERING COLLEGE

ACADEMIC AUDIT Evaluation Sheet

Department Name : ELECTRICAL & ELECTRONICS ENGINEERING

Programme Name : B.Tech

Academic Year : 2023-24

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 2020-24 batch is available (VR20 Regulation).
2.	Stakeholders feedback collected; analyzed & action taken related to curriculum design (with evidences)	 Feedback collected from Stakeholders (Faculty, Students, Parents & Alumni). Stakeholders suggestions of A.Y.2022-23 were analyzed and actin taken related to curriculun action was implemented in A.Y. 2023-24.
3.	Extent of stakeholders satisfaction with curriculum revision	 Curriculum will be revised by considering the inputs from stake holders (Faculty, student Parents& Alumni). The inputs are reviewed and forwarded to concern course coordinators through module coordinators. Suggestions & recommendations given by DAF & BOS members are considered implemented for Curriculum revision.
4.	-New courses introduced -Courses upgraded with more than 25% of course, content	 New courses introduced Program Elective- 4: Digital Design with FPGA (20EE7403C) Embedded Systems(20EE7403B) Skill Advanced Course: IOT Fundamental: Connecting Things (CISCO Certification) (20EE7607) Courses upgraded with more than 25% of course, content: Power System Analysis (20EE6301) Power System Protection(20EE6302) Power System Operation & Control (20EE7301).
5.	Lab component - New labs added -No. of new experiments introduced -New Hardware/Software developed	New labs added: EV Lab . No. of new experiments introduced: 1.Power Electronics Lab (20EE5351): 04. i. Implementation of single phase full bridge inverter using FPGA. ii. Implementation of three phase full bridge inverter using FPGA.

		 iii. Implementation of buck converter using FPGA. iv. Implementation of boost converter using FPGA. 2.Power Systems Lab(20EE6351): i.Active and Reactive power control of single machine connected infinite bus. ii.3-Zone protection of transmission line using iii.Numerical distance relay iv.Differential protection of Transformer using numerical relay
6.	No & % of courses focusing on employability/ entrepreneurship/ skill development.	 a.Employability:26 % of courses focusing on employability :26/53=49.05% b. Entrepreneurship: 3 % of courses focusing on entrepreneurship:3/53=5.66% c.Skill development: 10 % of courses focusing on / skill development:.10/53=18.86%
7.	No of students undertaken -full time field projects: -full time internships:	 Full time field projects: Nil III year Students: Full time internships: 131 students (6 Weeks) (without Stipend) Full time internships: 06 students (6 Weeks) (with Stipend) IV year Students: Full time internships:132 students (16 weeks) With Stipend:39 Without Stipend:93 Internships through placements (with Stipend):07

S. No	Criterion	Observations
1.	Teacher-student ratio	a.1:17.79 (Excluding first year faculty) as per NBA Guidelines. b.1:18.79 ((inclusive of UG and PG faculty and Students)
2.	Faculty Cadre ratio	2:3:21
3	Faculty experience & retention	Average Experience:15 years
4.	Faculty qualifications: Percentage of existing faculty with PhD Faculty awarded with PhD: Faculty submitted their PhD: Faculty pursuing PhD: Faculty registered for PhD: IQACACADEMICAUDIT	Percentage of existing faculty with PhD :46.15% (12/26) Faculty awarded with PhD:01(Sri.T.Naveen) Faculty submitted their PhD: S.N.V.S.K.Chaitanya Faculty pursuing PhD:10 Faculty registered for PhD: 01(V.Ravindranath Chowdary)
5.	Faculty with Post-Doctoral Fellowship or Pursuing it:	NIL

6	Faculty guiding/guided PhDs:	Faculty guiding PhDs:04 1.Dr.A.Rama Devi(JNTUK) 2.Dr.G.Srinivasa Rao(JNTUK, Annamalai University) 3.Dr.B.Venkateswara Rao(Annamalai University, JNTUK) 4 Dr Subbaiit Daum(NIT Machalaya MAKAUT)
7.	Percentage of faculty contributing in research publications: books: chapters:	4.Dr.Subhojit Dawn(NIT Meghalaya,MAKAUT) Research publications:18/26=69.23% Books:0 Chapters:6/26=23.07%
8.	e-Content development / Lectures added to Web-resources	Lecture notes, ppts, Question banks, Tutorial sheets uploaded unit wise in LMS/WhatsApp groups/Group mails.
9.	Faculty <i>contribution</i> in professional organizations/ Reviewer /Editorial boards: (not mere memberships)	Refer Annexure-I, Refer Annexure-III
10.	Academic Awards/Rewards received:	1.Dr. Subhojit Dawn-Best Associate Editor Award -Journal of Electrical Engineering & Technology, Springer, December 2023.
11.	Faculty contribution in Industry/ Institute collaborative projects	 a.Dr.T.Naveen Kumar involved in training students on Robotics domain with the technical and financial support from "Peepuls Agri Ventures LLP, Hyderabad". b.Dr.J.Vimala Kumari involved in training students on Drones domain with the technical support from by "Fopple Drone Tech Pvt.Ltd, Kankipadu". c.Dr.K.Dhanajay involved in training students on Electric vehicle domain with the technical support from "Sytiqhub,Surampalli, Vijayawada".
12.	Faculty trained in Industry	1.P.Venkatesh and S.N.V.S.K.Chaitanya trained- HiTech Automation Limited ,Tadigadapa,Vijayawada. 2.Dr.P.V.R.L.Narasimhan,Dr.J.Vimala Kumari,Dr.K.Dhanajay Rao and Dr.D.Indira- Kcombinator,USA
13	Faculty contribution in obtaining internships/ Placements / MoUs	Internships: Refer Annexure-VII No.of Placements:09 1.Dr. Dr. P. V. R. L. NARASIMHAM:06 (CONNEQT, RANDSTAD, Sai Constructions, OI TECH SOLUTIONS) 2.Dr.K.Dhananjay Rao:03(Sri Vidhyut Eco Tech India Pvt Ltd) MOUs:02,Skill Dezire(Sri.T. SUNEEL),Peepul Agri Ventures LLP(Dr. P. V. R. L. NARASIMHAM)
14	Faculty as resource persons in webinars/ workshops/ key note speaker /training activities	Refer Annexure-II 3 VRSEC

15	National level events organized -Conferences: -Workshops/Seminars: - Webinars -FDPs:	Conferences: NIL Workshops/Seminars:06 Webinars: NIL FDPs: 01
	International level events organized -Conferences - Webinars -Workshops/Seminars	Conferences: NIL Webinars: NIL Workshops/Seminars: NIL
16	List of conferences/seminars/webinars/ workshops/FDPs attended for the enrichment of teaching – learning process	Conferences:09 Seminars/Webinars:05 Workshops:07 FDPs/STTP:40 Coursera: 09 NPTEL:15
17	Faculty interaction with outside world (BOS/NBA/Examiner for PhD evaluation / selection committee /Academic auditing/ Chairperson /Chief guest/etc.)	Refer Annexure-II

III. 7	III. Teaching-Learning Process and Evaluation				
S. No	Criterion		Observatio	ons	
1.	Student performance indices – Measures to reduce detentions -Attendance (detentions if any): -Exams (detentions if any):	 Senior Parents 	reduce detentions: faculty will interac s meet conducted eling by faculty.	t with students	
		Semester	No.of students	Reason	
		3	01	Attendance	
		4	01	Attendance	
		5	Nil		
		6	01	Attendance	
		7	Nil		
		8	Nil		
2.	Mechanism and activities for slow learners: Outcome:	got less than 5 II and S-I).	0% marks in interna	l for the students who al assessment of (A-I& ed, where groups are	
		formed with	slow learners in	which each group is	
		assigned to a 1	merit student in that	t course from the same	
		class.			
		Outcome: Th	e performance of t	few slow learners has	
		been improve	ed in continuous	assessments and end	
	IQACACADEMICAUDIT	semester exan	nination.	VRSEC	
3	Mechanism and activities for Fast learners to excel:			t learners so that they roject work or can do	
	Outcome:	their project			

		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.Allowed to attend full time internships.
		5.Honor and Minor degree courses have been
		introduced for fast learners so that they get more
		opportunities in different areas.
		Outcome:
		1. UG students have made 31 publications.
		2. Few students were placed in core industry based on
		the skills acquired by them during the training
		programs.
		No of students placed in Core Companies : 54
	Bridge courses:	Bridge courses:
4		• Conducted Bridge course for lateral entry
	Value added courses:	students in Mathematics Course (20BS3101)
		and Network Analysis-II course (20ES3104).
		Value added courses:
		Conducted Value added course for III semester
		students on fundamentals of MATLAB
		Programming and Simulink.
		Conducted Value added course for IV semester
		students on MATLAB Programming and
		Simulink by covering Electrical Networks,
		Electrical Machines, Control Systems and
		Electronic circuits
5	Quality circles and Practice:	Quality circles are conducted for the course EM-II in
	Outcome:	A.Y 2023-24.
		Outcome: The performance of some of the slow learner
		has been improved in continuous assessments and end
		semester examination.
6.		
0.	Student counseling/mentoring	1. Maintaining Proctor Dairy.
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	Mechanism Initiatives taken for innovative mini and Major projects	 Maintaining Proctor Dairy. For every 18 number of students one counselor is allotted. For every 15 days regularity of students are monitored by counselors and class teachers. Parents are informed about their wards who are having less than 75% attendance and less than 50% of marks in internal assessment. In A.Y. 2023-24 Whatsapp groups were created by counselors for their respective allotted students and communicating the necessary information whenever required. Attendance of every class is posted in the whatsapp groups and monitored by the respective counselors. Student group mail is created for circulating the information and placing e-content. Encouraging the students to participate training programs in reputed colleges.
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		• Students are motivated 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 addressing societal/environmental issues 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. Design and development of an affordable lightweight smart electric two-wheeler for sustainable urban mobility.(K.Mohan Murali Krishna Reddy,B.Avinash)-Electric Vehicle2. Automated multipurpose rock-bottom compact machinery for smart agriculture.(D.Guru Charan,V.Swapna,D.Aruna Sagar,A.Syam Sagar)- Electric Vehicle3.Energy Efficient Seminar Hall Automation Using Image Processing.(K.Devisri Bhanu Prasad,Sk.Imram,J.Nikhil Kumar,B.Prasanthi)-IOT
9.	Student Model developments:	Student Model developments: Various working
	Awards:	models are developed through mini-Project-1,2 and major project. Awards: 01(Through EPICS and Mini Project-1) (B.Rakesh,N.Sai Kiran,A.Naveen-won first prize and received a prize amount of Rs 9000/- at the INFINITUS 2024 National-Level Techno-Cultural Fest which was held on March 21–21, 2024, and was organized by SRM University–AP.)
10.	Student Innovation details: Awards:	Innovation day on 15-10-2023. Awards: First and Third prizes secured by IV/IV B.Tech students. (D. Gurucharan, Jalli Sreelekha) Fourth prize secured by II/IV B.Tech students. (Innovative Model)(K.Teja Sri)
11.	Student Publications (other than IV.1) -UG: -PG:	UG students:31 PG students:03
12.	Monitoring of teaching-learning process Mechanism for Assessment of teaching process in classrooms.	1. Assessment of teaching process in classrooms is monitored by Head of the Department through feedback and interaction.
	IQACACADEMICAUDITICation of evaluated answer papers and question paper during the semester. Innovative teaching methods	2. Random verification of approximately VRSEC20 answer scripts have been evaluated for 5 courses during the semester. The internal assessment question papers during the semester are verified.

	presented, if any Verification of course files	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 have been verified by both Program coordinator and H.O.D.
13.	Student enrolment in CBCS	1.SOLAR PHOTOVOLTAICS (20EE5404B) -50 Students
14.	EPICS	
	Projects:	Projects:35
	Awards:	Awards: NIL
15.	Activities of students in professional bodies:	Total no:13
	Awards in co-curricular activities:	Refer Annexure-III
	Tiwards in co currentia activities.	 38 students participated in various events like quiz, master class, workshops etc. conducted by premier institutions.
		Awards: 01(B.Rakesh,N.Sai Kiran,A.Naveen-won first
		prize and received a prize amount of Rs 9000/- at the
		INFINITUS 2024 National-Level Techno-Cultural Fest
		which was held on March 21–21, 2024, and was
16.	Training programs/Seminars/workshops	organized by SRM University–AP.) Total no:13
10.	organized for students:	Refer Annexure III
17.	Guest lectures conducted for Students:	Total no:06
		Refer Annexure III
18.	MoUs with Industries for Research /	Department: Existing: 08, Newly added: 02, Total:10
10	Consultancy/ internship / placements, etc.	Central Level:02(1.NIT, Warangal 2. GMRIT, Rajam)
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	Yes. 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:	Self-learning platforms are NPTEL and Coursera and
	-Certificate courses-	edx.
22.	Online courses	265 Students completed using self-learning platforms.
	Cut-off rank(Admission): Cut-off rank Previous year:	There is a improvement in cut off Rank for the
	OC: BC: SC: ST: PH:	academic Year 2023 -2024, compared with the
	Audited year:	Academic Year $2022 - 2023$.
	OC: BC: SC: ST: PH:	Refer Annexure-IV
	Improvement and change / decline	7 VRSEC
	Note: If there is <u>no improvement</u> it needs to discussed & suitable measures are to be taken up.	

23 Range of CGPA&%of students 10-8 CGPA: 7-8 CGPA: 6-7 CGPA: 5-6 CGPA:	Performance of students in Marks of Batch wise of 2020-2024 Total no. of students:132 7.5-10 CGPA:69 (First class with distinction)
No. and percentage of failures: Success rate as per NBA guidelines:	First class:51 Second class:04 Pass percentage:124/132=93.93% No.& percentage of failures:08 & 08/132=6.06% Success rate as per NBA guidelines: Pass percentage without backlogs :76/132=57.57%

IV. I	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:13SCI / SCIE (Not ESCI):17Total:30h-index:Dept.:100 with reference to google scholar.Highest in the faculty:17: Dr.Subhojit Dawn
2.	 Publications in conferences: National (Scopus, SCI& equivalent) International (Scopus, SCI equivalent) Total: 	National (Scopus, SCI& equivalent):0 International (Scopus, SCI equivalent):34 Total=34
3.	Faculty contribution in: books: book chapters: (Books/Chapters with ISBN/ISSN only are considered)	Books: 0 Book chapters:06
4.	Paper Publications& Book chapters:	Q1:08, Q2:10, Q3:10, Q4:01 Total:29 Book chapters:06
5.	Government: Funded R&D projects	Applied:03, Total Amount: Rs 75,26,031/-(SERB SURE) 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 Consultancy& amount earned	Faculty involved Consultancy:Dr.P.V.R.L.Narasimham Amount earned:1 lakh
8.	Faculty intellectual property rights / Patents:	Filed:03, Published:03, Granted:01
9.	In-house R&D grants &projects and Their outcomes (Seed Grant)	In-house R&D grants &projects :02Outcome:One Indian Patent published
	IQACACADEMICAUDIT	 ⁸ Students secured second prize with cash prize of Rs.10,000/- in innovation fair organized by Design Innovation Center, JNTUK, Kakinada during 27-28, March 2024.

10.	New research facilities/laboratory Facilities added	Laboratory facilities added: Refer Annexure –V
11.	MOU's with industries/R&D/Premier Institutes Details of activities:	 02(1.Peepuls Agri Ventures LLP 2.Skill Desire) Details of activities: 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 from Peepuls Agri Ventures LLP come on holidays to train the students.
12.	Research centers of excellence established: Outcome in research centers:	JNTUK R&D Center. Outcome: The faculty are guiding PhD scholars.
13	Skill development centers established: outcome:	Yes APSSDC -01 SEIMENS Lab:03 labs related to EEE 1.Energy Studies lab 2.Low voltage switchgear lab 3.Drives lab Outcome: Lab experiments was done by students (PS lab, PLC and SCADA lab)
14	Incubation centers: - Established with outside Industries: -Status of incubation:	 Entering into MOU with OI Tech Solutions, Vijayawada. The space has been allocated in the college campus.
15	Start-ups & Entrepreneurships: No of Start-ups & status: Awards from outside platforms:	No of Start-ups:01 Status: Start-up registered(Chitti Motors Private Limited)

V. In	V. Infrastructure and Learning Resources			
S. No	Criterion	Observations		
1.	Addition of infrastructural facilities to improve the teaching learning process Classrooms / 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) Laboratories:10+1(Project room+ Innovation center) Seminar halls: 02(210A,210B) *seminar halls are also used for ICT class rooms		
2.	Internet facilities for faculty &Students:	 Syndicate rooms: Nil The College has 1030Mbps Internet bandwidth to facilitate entire college with redundancy leased-line connections. The bandwidth is sourced from Reliance Jio, Tata Tele Services and BSNL (NMEICT). Presently, 100+ CISCO access points have been installed to provide 24×7 Wi-Fi facility in the entire Campus & Hostels. All the Access Points are Licensed. The high-quality persistent bandwidth offers high speed and uninterrupted Internet connectivity from 		

3.	Technical manpower support added:	& Wi-Fi with Load Balancing & Network Redundancy Technology. The Campus has 1Gbps 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 NIL
4.	Modern/new equipment added in Laboratories:	Refer Annexure-V
5.	New research facility /Computing facilities/ laboratory added:	laboratory added :EV Lab
6.	Dept. Newsletter/magazine:	Prepared Annually
7.	Department library: New additions Text books / References / Journals	Text Books /References:00 Magazines:02(Electronics for you, Electrical India) Journals: 01(ieema journal)
	Student information, Support and Progr	
S. No	Criterion	Observations
1	Industrial visits	Three Industrial visits were arranged.
2	Internships	III year Students: Full time internships: 131 students (6 Weeks) (without Stipend) Full time internships: 06 students (6 Weeks) (with Stipend) IV year Students: Full time internships:132 students (16 weeks) With Stipend:39 Without Stipend:93 Internships through placements (with Stipend):07
3	Dept. student clubs: Activities:	 Siddhartha Electrical Association (SEA) Clubs: Electric Vehicle Club (EV Club): This club has 30 active members. Training programs conducted in regular intervals. Faculty in charge of this club is Dr. K. Dhananjay Rao. 2.Drone Club: This club has 25 active members. Training programs conducted in regular intervals From the Drones club, two Drones were developed in the institute. Faculty in charge of this club is Dr. J. Vimala Kumari
	IQACACADEMICAUDIT	 3.Robotics Club: 1 VRSEC This club has 25 active members. 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 from Peepuls Agri Ventures LLP come on holidays to train the students. Faculty in charge of this club is Dr. T. Naveenkumar
4	Details of coaching provided for GATE /GRE/any other competitive exams	
6	Students qualified in -GATE -GRE/etc.	Total 16 students qualified in different competitive examinations. GATE:03 GRE/TOEFL/IELTS:13
7	Students admitted for Higher studies (No & %):	Total 07 Students admitted for Higher studies Percentage:07/132=5.3% Refer Annexure VI
8	Total Placements (No & %) in the Dept: 2 - 4 Lakhs (No.) 4 Lakhs-5Lakhs (No.): 5 Lakhs above (No.): Highest salary (No.): Median salary:	Total No of Students: 132Total No of eligible Students: 109Total No of Placements: 106Total No of Selected students: 77% Placements with respective Eligible Students:77/109=70.64%% Placements with respective intake: 58.33%2 LPA to 4 LPA:664 LPA to 5LPA:335 LPA ABOVE:7Highest Package: 8 LPAAverage Salary: 4.16 LPANo of students placed in Core Companies: 54
9	Student prizes:	No of students placed in Core Companies 1:34 NSS/NCC01Cultural0 Sports0 National Level, if any0 Technical Prizes:04 1.Drones contest,2. Innovation Fair, 3. Quiz,4. Quiz. Nontechnical Prizes:02
10	Student Scholarships:	 Siddhartha Sahaya Scholarships :10 North-South foundation Scholarships:11 South Central railwaya:02 R.C.M.church:01 Mother Theresa Trust:01 Dr.Y.V.S.Murthy Charitable Trust:02 Akhila Bharata Maha Mandal,Hyd:01

VII.	VII. Governance, Leadership and Management				
S. N O	IQACACADEMICAUL	1	Observations	VRSEC	
1			ts the goals of faculty from every sed on the goals set for the departr		

	improvement.	that A.Y. 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 increase 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	 Venkatesh and S.N.V.S.K.Chaitanya trained- HiTech Automation Limited ,Tadigadapa,Vijayawada. 2.Dr.P.V.R.L.Narasimhan,Dr.J.Vimala Kumari,Dr.K.Dhanajay Rao and Dr.D.Indira- Kcombinator
4	Non-teaching staff attended For skill development programs	 3- Non teaching staff attended Three day workshop on "Electric Vehicle", organized by the Sytiqhub Educational Services Pvt.Ltd. in department of EEE, VRSEC, Vijayawada. All Non-teaching staff have participated in product demos given by the suppliers during the delivery of the equipment and got trained on that equipment.
5	Financial support received from the Management: Seed Grant for faculty: Incentive for Sponsored projects: Incentive for paper publications: Attending FDPs/ Seminars/etc: Attending overseas seminars: Interaction with R & D personnel: Others:	 Seed Grant for faculty: Rs.2.9 Lakhs Incentive for Sponsored projects: Nil Incentive for paper publications: Rs.43,500/- Attended FDPs/Seminars/R & D interactions through online:
6	Financial support received from the Management: Student Projects: Model developments& exhibition: Student Innovations& exhibition:	 Student Projects, Model developments& exhibition: Drone Club: An amount of Rs. 2,02,000/- was sanctioned for the Drone Club by the management in the A.Y. 2023-24. (Training programs conducted in regular intervals.From the Drones club, two Drones were Developed in the institute.). EV Club: An amount of Rs. 72,000/- was sanctioned for the EV Club by the management in the A.Y. 2023-24. Utilized for EV training by industry ("Sytiqhub,Surampalli, Vijayawada").
	IQACACADEMICAUDIT	 Student Innovations & exhibition: An amount of Rs. 70,000/- was sanctioned for the student innovations by the management in the A.Y. 2023-24. Utilized for development of low cost smart electric two wheeler.(Chitti Pi 15). An amount of Rs 2.5 lakhs was sanctioned in the A.Y: 2019-20 under seed Money. The above amount is being utilized for model developments like

		 Development of Inverter. Design of multifunction meter is in progress (Prototype model is Completed) by utilizing same amount for the A.Y 2021-22.
	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: Excellence in Teaching and Learning. Comprehensive professional growth of students. Enhancing R&D activities. Revising the curriculum according to industry needs. Involving an industry in academic activities of the department. Committees: Program Assessment Committee (PAC) Department Advisory Board (DAB) Board of Studies (BOS) Module coordinator committee
8	Maintenance -General -Laboratory -Others	 Periodical maintenance of Academic facilities and physical facilities are well maintained. Budget utilized for laboratory maintenance :Rs 3,29,656/- (Recurring)
9	Financial support/leaves for qualification/skill up-gradation:	 1 Financial support: An amount of Rs 43,500/- was received by faculty as an incentive towards paper publication in reputed journals and conferences. 2. Skill up-gradation: Special Casual leaves for P.hD reviews (SCL),OD etc.
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.I QAC In-charge

Academic Auditor

Head of the Dept.

	Academic Audit Report (Consolidated)
1.	
2.	No: of full time permanent faculty : 26
3.	No: of Visiting/Adjunct faculty : 01
4.	No: of PG/UG courses : PG:01 UG:01
5.	Curriculum Revisions Information: UG:VR20,VR23 PG:M.Tech19
	Major changes: Introducing minor program and Honor program in VR20
	New courses: 1: Design Thinking,
	Program Elective 1: Artificial Neural Networks and Fuzzy Logic/
	Data Communication and Networking(20EE5404),
	Open Elective-2/ Job oriented elective-2: Machine Learning using Python/Electric Vehicles(20EE6205)
	Modified courses (min 20-25% change) :07/53=13.20%
	Employable courses:26
6.	Research: Ph.D. Theses submitted:00awarded:01
	Faculty guiding Ph.Ds: 04
	Publications in Jrs: SCI/SCIE17Scopus13Total30.
	Publications in Conferences: SCI/SCIE 0 Scopus: 34 Total: 34.
	Student Publications:
	-UG: SCI/SCIE: 0 Scopus: 31 WoS:0 Others:00Total: 31
	-PG: SCI/SCIE:0 Scopus: 03 WoS: 0 .Others: 00 Total: 03
	Dept H-index (Scopus data base): 100 . Highest H-Index of faculty: 17
	Publications: Q1 : 08 Q2: 10, Q3:10 Q4:01, Total: 29
7.	
8.	Consultancy Amount earned: Rs 1,00,000/-
9.	Start-ups & Entrepreneurship: No: 01, Awards from outside platforms: 0.
10	. Incubation centers: established: A.Y.2017-18, Status of incubation: The dept. has
	developed many working models.
	. Patents: Filled: 03, .Published: 03, Granted: 01.
	. Innovations : 02, Awards from outside platforms (reputed Institutions only) : 04.
	. Books / Book chapters (with ISBN/ISSN only are considered): 06
14	. e - Content developed: Lectures added to Web-resources: 100% in LMS/WhatsApp groups/Group
15	mails.
	. Placements: No: 106, Percentage: 70.64%, Median salary: 4.16 Lakhs., Highest salary: 8 lakhs.
	. Higher Education: GATE No: 03., GRE No: 04, Others (specify):09 . New Equipment and Infrastructure added: (Name: EV Lab & amount: Rs.10,50,320/-)
	8. Student feedback on Curriculum, infrastructure and facilities: Yes or NoYES
	9.Strengths:
1	a) Revised curriculum meets the requirement for students' knowledge growth in terms of
	advancement and interdisciplinary.
	b) Effective teaching-learning process and evaluation is being implemented.
-	c) Good governance and management are followed to achieve the quality metrics.
2	0.Weaknesses (mandatory field to fill):
	a) Online programs / webinars are not conducted.b) No international event is conducted.
	a) No new text hashe are added to department library

- c) No new text books are added to department library
 d) No field projects executed by the students
 IQACACADEMICAUDIT

- 20. Suggestions for improvement (mandatory field to fill):
- a) Collaborative events shall be planned with industries / government organizations.
- b) More number of extra / co-curriculum activities of students should be encouraged effectively.
- c) Faculty should apply for sponsored project grants to enhance their research profile.

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

Dept. IQAC In-charge

Academic Auditor

Head of the Dept.

IQAC Coordinator

Annexure-I

Editor-ships /Reviewer-ships

S.No	Name of the Faculty	Journal, Issue &No/ Proceedings	ISBN/ ISSN	Reviewer/ Editorial Board Member
1	Dr.G. Srinivasa Rao	Journal of the Institution of Engineers Springer Series B (Scopus)	2250-2114	Act as a Reviewer
2	Dr. B. Venkateswara Rao	Electrical Power and Energy Systems (SCI)	0142-0615	Act as a Reviewer
		COMPEL - The International Journal for Computation and Mathematics in Electrical and Electronic Engineering (SCI)	0332-1649	
		IET Renewable Power Generation (SCI)	1752-1416	
		Advances in Electrical Devices	-	Editor-in-Chief
		Journal of Controller and Converters	-	Editorial Board Member
		International Journal of Advanced Electrical Technology and Research	2278-8948	Editorial Board Member
3	Dr. Subhojit Dawn	IEEE Transactions on Power Systems (SCI)	0885-8950	Act as a Reviewer
		Energy (SCI)	0360-5442	
		Renewable Energy (SCI)	0960-1481	
		IET Renewable Power Generation (SCI)	1752-1416	
		IET Generation, Transmission & Distribution (SCI)	1751-8687	
		Electrical Power and Energy Systems (SCI)	0142-0615	
		Applied Energy (SCI)	0306-2619	
		Renewable & Sustainable Energy Reviews (SCI)	1364-0321	
		IEEE Access (SCI)	2169-3536	
		Sustainability (SCI)	2071-1050	
		Journal of Electrical Engineering & Technology (Springer) (SCI)	2093-7423	Associate Editor
		Journal of Electrical and Power System Engineering	2582-5712	Editor
		American Journal of Electrical Power and Energy Systems	2326-9200	Editorial Board Member
IQA	CACADEMICAUDIT	International Journal of Energy Policy and Management	2472-9493	Editorial Board ^{RS} Member

Journal of the Institute of	2643-8240	Editorial Board
Electronics and Computer		Member

Annexure-II

Faculty as resource persons in webinars/workshops/ key note speaker /training activities

A.Y.2023-2024					
S.No	Name of the Faculty	Designation	Name of the Event	Duration	Organized by
1.	P.Venkatesh	Assistant Professor	MATLAB EXPO 2023 India	20-07-2023	P.B.Siddhartha College of Arts &Science
2.	S.V.R.L Kumari	Associate Professor	MATLAB EXPO 2023 India	20-07-2023	P.B.Siddhartha College of Arts &Science
3.	V.Ravindranath Chowdary	Assistant Professor	Amazon Web Services (MLops)	07/06/23 to 07/07/23	IETE Ranchi and Pantech e learning
4.	V.Ravindranath Chowdary	Assistant Professor	Battery Management System	16/09/23 to 16/10/23	IETE Ranchi and Pantech e learning
5.	V.Ravindranath Chowdary	Assistant Professor	Machine Learning	01/09/23 to 30/09/23	IETE Ranchi and Pantech e learning
6.	Dr.G.Srinivasa Rao	Associate Professor	Regional Meet Institutions Innovation Council MoEs Innovation cell	06-01-2024	Koneru Lakshmiah Education Foundation
7.	Dr.G.Srinivasa Rao	Associate Professor	Innovative Bharat- IIC Regional Meet 2023	06-01-2024	Koneru Lakshmiah Education Foundation
8.	V.Bindu	Assistant Professor	PPT on Energy conversion Technologies	13-12-2023	SDMSM Kalasala, Vijayawada
9.	K.Lalitha	Assistant Professor	Expert talk on Master Class in Technical writing	04/03/2024 to 08/03/2024	OP Jindal University, Raigarh
10	Dr.Indira	Assistant Professor	Reviewer in the conference "2024 IEEE Students Conference on Engineering and Systems (SCES- 2024)	June 21-23, 2024	Motilal Nehru National Institute of Technology Allahabad
11	IQACACADEMICAUDI ⁻ Dr.G.Srinivasa Rao	Associate Professor	1 "Inspire to Invite" as part of IIC impact lectures	28/6/2024	D M S S V H College of Engineering, Machilipatnam

Annexure-III

Activities of students in professional bodies

Sl.No	Professional Chapter	Date	Event Name	No. of Students Participated
1	IE(I)	16/08/23	A Seminar on Electric Vehicle	81
2	IE(I)	23/08/23	Awareness on Professional Societies (IEEE, IE, ISTE)	100
3	SEA	30/08/23	Facility of Project room and library in the Dept.	123
4	IE(I)	13/09/23	A Workshop on Technical Speech	45
5	IE(I)	20/09/23	A Guest Lecture on Fuel Cells based Electric Vehicles	85
6	IE(I)	27/09/23	A Seminar on Cutting-edge agricultural robot	101
7	IE(I)	30/09/23 To 02/10/23	A Hands-on training on Electric Vehicles	80
8	IE(I)	18/10/23	A Seminar on Tech Debate	38
9	IE(I)	04/11/23	A Guest Lecture on Power Grid Operation and Control	115
10	IE(I)	14/12/23	Energy awareness rally, organized by Govt. of AP	100
11	IE(I)	19/12/23	A Guest Lecture on Save Energy and save world conducted in association with State Centre of IE(I),Vijayawada Resource Person:Er. R.V.Ramana	90
12	IE(I)	24/01/24	A Guest Lecture on Career Awareness Program	37
13	IE(I)	31/01/24	A Guest Lecture on Multilevel Inverter design for EV Applications	82

Annexure –IV	
Cut-off rank Previousyear:2022-23 and Cut-off rank in A.Y.:2023-24	

		EAMCET		
Category	Category General			nale
	2022-23	2023-24	2022-23	2023-24
OC	49272	36696	47315	36589
BC-A	97100	78754	100028	77745
BC-B	102383		124255	69102
BC-C	_	_	_	_
BC-D	54417	50108	67719	49880
BC-E	-	61605	102124	111103
SC	116916	105277	162793	99331
ST	137628	132143	-	132099
CAP	-		-	
NCC				
PH	-		-	
SPORTS	-		-	
EWS	61913	52834	58814	54690
		ECET		
OC	37	150	-	305
BC-A	-	345	-	
BC-B	-	204	_	410
BC-C	_		_	
BC-D	157	-		
BC-E	-		-	
SC	-	718	-	
ST	1438		-	

Annexure –V 2023-24 Utilization Non-Recurring

Expenditure on purchase of equipment- Total Rs: 23,08,020.14/-

1. Electrical Measurements and control systems lab 1.Digital Storage Osciloscope-3 1.59,268.14/- 2. Power Systems Lab (UG) 1. Vector Grouping of three Phase Transformers. 2.05,320/- 3. Electronics Lab 1.Function of under-ground cable. (Murray-loop test) 3. Determination of string efficiency of string insulator. 2,85,518/- 3. Electronics Lab 1.Function Generator-7 2,85,518/- 4. Digital Soldering Iron, Sponge (Weller)5. Soldron 740 Station (3 In 1)-2 8 1.01/2 6. Analog Boards Trainer Kits 8.Digital Ammeters -0-200mA- DC (variable) - Multirange 9.Digital Ammeters -0-200mA- DC (fixed) 10.Digital Ammeters -0-200mA- DC (fixed) 12.Analog Ammeters -0-200mA- DC (fixed) 12.Analog Ammeters -0-200mA- DC (with Stand MR 100 Model 4. Electrical Machines Lab 1.Wattmeters And Digital Multi Range Meters 1.95,358/- 4. Electrical Machines Lab 1.Vector Grouping of three Phase 1.95,358/-	S.No	Laboratory in which it is used or if a new lab is set up -details	Nature of the equipment	Amount spent Rs
2. Power Systems Lab (UG) 1. Vector Grouping of three Phase Transformers. 2.05,320/- 2. Fault location of under-ground cable. (Murray-loop test) 3. Determination of string efficiency of string insulator. i) Without guard ring ii) With guard ring. 3. Electronics Lab 1.Function Generator-7 2.Universal ICtester-1 3.Clamptester-1 4. Digital Soldering Station - Voltage - 120 Volts Wattage - 70 Watts ; Included Components, Soldering Iron, Sponge (Weller)5. Soldron 740 Station (3 In 1)-2 6. Analog Boards Trainer Kits 7.Digital boards Trainer Kits 8.Digital Ammeters -0-200mA- DC (variable) - Multirange 9.Digital Ammeters -0-200mA- DC (variable) - Multirange 11.Digital Ammeters -0-200mA- AC (Variable) - Multirange 11.Digital Ammeters -0-200mA- AC (Variable) - Multirange 11.Digital Ammeters -0-200mA- AC (with Stand MR 100 Model 13.Analog Ammeters -0-200mA- AC with Stand MR 100 Model 4. Electrical Machines Lab 1.Wattmeters And Digital Multi Range Meters 2.Non-Contact Voltage Detector 3.Powerguard 4. Vector Grouping of three Phase	1.		1.Digital Storage Osciloscope-3	1,59,268.14/-
2. Universal ICtester-1 3. Clamptester-1 4. Digital Soldering Station - Voltage - 120 Volts Wattage - 70 Watts ; Included Components, Soldering Iron, Sponge (Weller)5. Soldron 740 Station (3 In 1)-2 6. Analog Boards Trainer Kits 7. Digital boards Trainer Kits 8. Digital Ammeters -0-200mA- DC (variable) - Multirange 9. Digital Ammeters -0-200mA- DC (fixed) 10. Digital Ammeters -0-200mA- AC (Variable) - Multirange 11. Digital Ammeters -0-200mA- AC (fixed) 12. Analog Ammeters -0-200mA- AC with Stand MR 100 Model 13. Analog Ammeters -0-200mA- AC with Stand MR 100 Model4.Electrical Machines Lab1.Wattmeters And Digital Multi Range Meters 2. Non-Contact Voltage Detector 3.Powerguard1.95,358/- Range Meters 4. Vec∨ Grouping of three Phase	2.		 Transformers. 2. Fault location of under-ground cable. (Murray-loop test) 3. Determination of string efficiency of string insulator. i) Without guard ring ii) With 	2,05,320/-
IQACACADEMICAUDIT Range Meters 2.Non-Contact Voltage Detector 3.Powerguard 4. Vector Grouping of three Phase	3.	Electronics Lab	 2.Universal ICtester-1 3.Clamptester-1 4. Digital Soldering Station - Voltage - 120 Volts Wattage - 70 Watts ; Included Components, Soldering Iron, Sponge (Weller)5. Soldron 740 Station (3 In 1)-2 6. Analog Boards Trainer Kits 7.Digital boards Trainer Kits 8.Digital Ammeters -0-200mA- DC (variable) - Multirange 9.Digital Ammeters -0-200mA- DC (fixed) 10.Digital Ammeters -0-200mA- AC (Variable) - Multirange 11.Digital Ammeters -0-200mA- AC (fixed) 12.Analog Ammeters -0-200mA- DC with Stand MR 100 Model 13.Analog Ammeters -0-200mA- 	2,85,518/-
Transformers			Range Meters2.Non-Contact Voltage Detector3.Powerguard4. Vector Grouping of three Phase	1,95,358/- VRS
5.IOT labNuclei F446Re Boards1,13,752/-	5	IOT lab	Transformers.	1 13 752/

E	Down Electronics Lab	1 Single Dhage As Valters	2 09 1911
6.	Power Electronics Lab	1.Single Phase Ac Voltage	2,98,484/-
		Controller With R &Rl Loads	
		And Firing Circuit:	
		2. Buck/Boost Chopper Module	
		And Firing Circuit:	
		3. Boost Chopper Module And	
		Firing Circuit	
		4. 1-Phase Mosfet Based H-	
		Bridge Inverter:	
		Ii) 1-Phase Igbt Based H-Bridge	
		Inverter	
		5. Static Characteristics Of Scr,	
		Triac, Diac, Mosfet And Igbt:-	
		6. Driver Unit – 6 Inputs Using	
		Fast Switching Opto Isolator	
		(3.3 V To 15v) For Firing The	
		Mosfet	
		7. Single Phase Fully Controlled	
		Bridge Rectifier With R & Rl	
		Loads With External Firing	
		Circuit (Switches Mosfet Based)	
		8. Single Phase Fully Controlled	
		Bridge Rectifier With R & Rl	
		Loads With External Firing	
		Circuit (Switches Scr Based):	
		9. Three Phase Fully Controlled	
		Bridge Rectifier with R & Rl	
		Loads	
		10.Digital storage oscilloscope	
		probes	
7.	EV Lab	1. Battery charge discharge test	Rs.10,50,320/-
		setup	1
		2. E-Vehicle two wheeler trainer	
		setup (Battery with BMS)	
		3. Battery Operated Electric	
		Vehicle-Four wheel	

Annexure –VI Higher Studies Academic Year 2023-24

S.No	Roll No	Name of the	Higher	Admission Details	Place	Rank	QS
		Student	Study	(Name of the			Rank
			Program	Institution/University)			
			Name				
1	208W1A0264	B.Sumanth	M.Tech	VIT, Vellore campus	India		
2	208W1A0256	Sandeep	M.Tech	VNUT No serve	India		
2		Ventrapragada		VNIT, Nagpur	India		
3	208W1A0249	THARUN SRIRAMULA	M.Tech	VNIT, Nagpur	India		
5					mula		
	208W1A0208	B.Gayatri Rama	PGDM	Siva Sivani Institute of			
4	208W1A0208	dit Tejaswini	I ODM	2 Management	India		VRSEC
5	208W1A0299	N.Sailaja	MS	Saint Louis University	US		
	208W1A0B6		MS	Florida Atlantic			
6	200 W IAUDU	T.V.N.Hanumanth	MD	University	US		

	V. R. SIDDHARTHA ENGINEERING COLLEGE :: VIJAYAWADA (AUTONOMOUS) DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING Faculty Contribution for Arranging internship in A.Y 2023-2024				
Sl NoName of the EmployeeOrganization Name(Number of students)		Organization Name(Number of students)			
1	Dr. P. V. R. L. NARASIMHAM	Skill Dzire Technologies Pvt. Ltd (15)			
2	Dr. A. RAMA DEVI	Schneider Electric India Pvt.Ltd (07)			
3	Sri.S N V S K CHAITANYA	PEGA,(08) vem technologies Pvt Ltd(03) Viswasamudra Engineering Pvt ltd(02)			
4 Sri.T. SUNEEL BIST Technologies Pvt Ltd (35)		BIST Technologies Pvt Ltd (35)			
5	Sri. V. HARI VAMSI	Adept Talent Acquisition India Pvt Ltd(8)			
6	Dr. K. DHANANJAY RAO	SytiqHub Educational Services Private Limited(3)			

Annexure –VII Faculty contribution in obtaining internships

4/4 B.Tech

Faculty Contribution for making MOU'S in A.Y 2023-2024

Sl No	Name of the Employee	Organization Name
1	Dr. P. V. R. L. NARASIMHAM	Peepul Agri Ventures
		LLP,Guntur
2	Sri.T. SUNEEL	Skill Dzire Technologies Pvt. Ltd

3/4 B.Tech

5/4 Direch				
Sl. No	Name of the Employee	Organization Name (Number of students)		
1	Dr. P. V. R. L. NARASIMHAM	Skill Dzire Technologies Pvt. Ltd (12)		
		N-deep Technologies (22)		
		AICTE-EDUSKILLS Virtual Internship (6)		
2	Dr. P. V. R. L. NARASIMHAM	KCP Limited. (7)		
3	Dr.D.Indira	NIT-AP (10)		
4	Sri.S N V S K CHAITANYA	PLC Hi-Tech Automation (23)		
5	Dr. K. DHANANJAY RAO	SytiqHub Educational Services Private		
		Limited (5)		