

**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 : 2022-23

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 2019-23 batch available (VR17 Regulation).
2.	Stakeholders feedback collected; analyzed & action taken related to curriculum design (with evidences)	Consolidated Stakeholders feedback (Faculty, student, Parents, and Alumni inputs) is available. <ul style="list-style-type: none"> More industry-oriented courses More Elective courses With the approval of DAB and BOS members.
3.	Extent of stakeholders satisfaction with curriculum revision	<ul style="list-style-type: none"> 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 DAB & BOS members are considered and to be implemented for Curriculum revision.
4.	-New courses introduced -Courses upgraded with more than 25% of course, content	<ul style="list-style-type: none"> Program Elective- 4: Digital Design with FPGA (20EE7403) Skill Advanced Course: IOT Fundamental: Connecting Things (CISCO Certification) (20EE7607) (Approved in BOS2023 and implemented in AY 2023-24)
5.	Lab component - New labs added -No. of new experiments introduced -New Hardware/Software developed	New labs added: ---- No. of new experiments introduced: 1. Power Electronics Lab (20EE5351): Nil. 2. Microcontrollers Lab(20EE5352): Nil 3. IoT Lab (20EE5353): Total 12 new experiments introduced. 4. Data Structures Lab (20EE5607): Total 12 new tasks introduced. 5. Power Systems Lab(20EE6351) <ul style="list-style-type: none"> Active and Reactive power control of single machine connected infinite bus. 3-Zone protection of transmission line

		using <ul style="list-style-type: none"> Numerical distance relay Differential protection of Transformer using numerical relay 6.Simulation of Electrical Systems Lab(20EE6352) : Nil
6.	No & % of courses focusing on employability/ entrepreneurship/ skill development.	Employability:26, Entrepreneurship: 3 Skill development: 10 % of courses focusing on employability :26/53=49.05%
7.	No of students undertaken -full time field projects: -full time internships:	Full time field projects: Nil Full time internships: 113 students (6 Weeks) (without Stipend) Internships through placements (with Stipend):07

II. Faculty information and their contribution		
S. No	Criterion	Observations
1.	Teacher-student ratio	a.22.95:1 (Excluding first year faculty) as per NBA Guidelines. b.17:1 ((inclusive of UG and PG faculty and Students)
2.	Faculty Cadre ratio	2:4:21
3	Faculty experience & retention	More than 3 years:18 members More than one year but less than 3years: 9
4.	Faculty qualifications: Percentage of existing faculty with PhD Faculty awarded with PhD: Faculty submitted their PhD: Faculty pursuing PhD: Faculty registered for PhD:	Percentage of existing faculty with PhD :44.44% (12/27) Faculty awarded with PhD:01(Smt. J. Vimala Kumari) Faculty submitted their PhD: NIL Faculty pursuing PhD:09 Faculty registered for PhD: NIL
5.	Faculty with Post-Doctoral Fellowship or Pursuing it:	NIL
6	Faculty guiding/guided PhDs:	7 faculty members guiding Ph.D. (NIT Meghalaya, Mizoram University, JNTUK, Annamalai University)
7.	Percentage of faculty contributing inresearch publications:books:chapters:	Research publications:22/27=81.48% Books:0 Chapters:4/27=14.81%
8.	e-Content development / Lectures added to Web-resources	Lecture notes, ppts, Question banks, Tutorial sheets uploaded unit wise in LMS/Whats up groups/Group mails.
9.	Faculty contribution in professional organizations/ Reviewer /Editorial boards: (not mere memberships)	Refer Annexure-I 1.K.Dhanunjaya Rao (Professional coordinator IEI, Member in IEEE) 2.Dr.B.Srinivasa Rao (Senior member in IEEE) 3.Dr.Subhojit Dawn (Member in IEEE)

10.	Academic Awards/Rewards received:	1.Dr. Subhojit Dawn-Best Associate Editor Award -Journal of Electrical Engineering & Technology, Springer, December 2022.
11.	Faculty contribution in Industry/ Institute collaborative projects	NIL
12.	Faculty trained in Industry	NIL.
13	Faculty contribution in obtaining internships/ Placements / MoUs	Internships: Nil No.of Placements:29 1.Dr.PVRLN:29 (Stanadyne & PANDA ANALOG & DIGITAL SYSTEMS) MOUs:01(V.Hari Vamsi):Skilllync
14	Faculty as resource persons in webinars/ workshops/ key note speaker /training activities	Refer Annexure-II
15	National level events organized -Conferences: -Workshops/Seminars: - Webinars -FDPs: International level events organized -Conferences - Webinars -Workshops/Seminars	Conferences: NIL Workshops/Seminars:03 Webinars: NIL FDPs: NIL Conferences: NIL Webinars: NIL Workshops/Seminars: NIL
16	List of conferences/seminars/webinars/ workshops/FDPs attended for the enrichment of teaching – learning process	Conferences:22 Seminars/Webinars:25 Workshops:03 FDPs:26 Coursera: 01 NPTEL:4
17	Faculty interaction with outside world (BOS/NBA/Examiner for PhD evaluation / selection committee /Academic auditing/ Chairperson /Chief guest/etc.)	1.Dr PV R L Narasimham acted as BOS member in Dept. of EEE, Narayana Engg.College, Nellore.

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): IQACACADEMICAUDIT	1. Senior faculty interaction with students 2. Parents meet 3. Counseling by faculty. Detention: 3 rd sem:det: 01 4 th sem det:0 5 th sem:det: 0 6 th sem det:0 7 th sem: det:0 8 th sem det:0 VRSEC

2.	Mechanism and activities for slow learners: Outcome:	<ol style="list-style-type: none"> 1. Remedial classes are conducted for the students who got less than 50% marks in internal assessment of (A-I& II and S-I). 2. Quality circles were 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. 3. Guest lectures on advanced topics were conducted on recent trends so that the slow learners can improve their performance. <p>Outcome: The performance of some slow learners has been improved in continuous assessments and end semester examination.</p>
3	Mechanism and activities for Fast learners to excel: Outcome:	<ol style="list-style-type: none"> 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 area. 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. <p>Outcome:</p> <ol style="list-style-type: none"> 1. UG students have made 37 publications. 2. Few students were placed in core industry based on the skills acquired by them during the training programs. <p>No of students placed in Core Companies : 52</p>
4	Bridge courses: Value added courses:	<ul style="list-style-type: none"> • Conducting Bridge course for lateral entry students in Mathematics Course (20BS3101) and Network Analysis-II course(20ES3104). • A Two Day Workshop on Electronic component Testing and PCB design conducted for I year EEE Students. • Robotics
5	Quality circles and Practice: Outcome:	<p>Quality circles are conducted for courses EM-I&EM-II in A.Y 2022-23.</p> <p>Outcome: The performance of some of the slow learner has been improved in continuous assessments and end semester examination.</p>
6.	Student counseling/mentoring Mechanism IQACACADEMICAUDIT	<ol style="list-style-type: none"> 1. Maintaining Proctor Dairy. 2. For every 18 number of students one counselor is allotted. 3. For every 15 days regularity of students are monitored by counselors and class teachers and will be informed to parents about their wards who are having less than 75% attendance and less than 50% of marks in internal assessment. <p>In A.Y. 2022-23</p> <ol style="list-style-type: none"> 1. Whatsapp groups were created by counselors for

		<p>their respective allotted students and communicating the necessary information whenever required.</p> <ol style="list-style-type: none"> 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.
7.	<p>Initiatives taken for innovative mini and major projects</p> <p>-Training for students& faculty</p>	<ul style="list-style-type: none"> Conducted workshops and guest lectures from industry experts on Latest technologies. Students are explored to real time problems. Students are motivated to publish their projects in reputed Journals and Conferences.
8.	<p>Best student projects with awards</p>	<p>Best student Projects:</p> <p>The criteria for selecting best project includes:</p> <ul style="list-style-type: none"> Innovation in the project Latest technology implemented in the project Whether addressing societal/environmental issues Extent of implementation Publications from the project work <p>The evaluation for the above mentioned points will be done as per the rubrics developed Below.</p> <p>Reviewers are requested to give the grading in terms of A, B, C and D. A= Excellent B=Good C= Average D=Below Average</p> <ol style="list-style-type: none"> Profit Maximization of a Solar-Integrated Deregulated System by Optimal Placement of TCSC and UPFC. Effect of Common Mode Voltage in Transformer Less Inverters. Monitoring System for Solar Panel Using IOT
9.	<p>Student Model developments:</p> <p>Awards:</p>	<p>Student Model developments: Various working models are developed through mini-Project-1 and major project.</p> <p>Awards: 03(Through EPICS and Mini Project-1)</p>
10.	<p>Student Innovation details:</p> <p>Awards:</p>	<p>Innovation day on 15-10-2022.</p> <p>Awards: First and Second prizes secured by III/IV B.Tech students.</p> <p>(Innovative Model)</p>
11.	<p>Student Publications (other than IV.1)</p> <p>-UG:</p> <p>-PG:</p>	<p>UG students:37</p> <p>PG students:05</p>
12.	<p>Monitoring of teaching-learning process</p> <p>--Mechanism for Assessment of teaching process in classrooms.</p> <p>--Random verification of evaluated answer papers and question paper during the semester.</p> <p>--Innovative teaching methods presented, if any</p> <p>--Verification of course files</p>	<ol style="list-style-type: none"> Assessment of teaching process in classrooms is monitored by Head of the Department through feedback and interaction. Yes. Random verification of approximately 10-20 answer scripts have been evaluated for 5 courses during the semester. The internal assessment question papers during the semester are verified and also verified Blooms taxonomy as well as cognitive levels.

		<p>3. The innovative teaching methods presented through lab taken to class (LTC).</p> <p>4. Yes. All the course files have been verified by both Program coordinator and H.O.D.</p>
13.	Student enrolment in CBCS	<p>1. Optimization Techniques(17EE4702D)-32 Students</p> <p>2. Digital Controllers Lab (17EE4755D)-51 Students</p> <p>3. Solar Photovoltaic (17EE4801A)-38 Students</p> <p>4. Energy Conservation & Audit (20EE5205B)-20 Students</p> <p>5. Data Analytics with Python (20EE7205B)-14 Students</p> <p>6. Cloud Computing (20EE7205C)-64 Students</p> <p>7. Operation and Planning of Power Distribution Systems(20EE7206B)-73 Students.</p>
14.	EPICS Projects: Awards:	<p>Projects:34</p> <p>Awards: NIL</p>
15.	Activities of students in professional bodies: Awards in co-curricular activities:	<p>Refer Annexure-III</p> <ul style="list-style-type: none"> 116 students participated in various events like quiz, master class, workshops etc. conducted by premier institutions.
16.	Training programs/Seminars/workshops organized for students:	A Two Day Workshop on Electronic component Testing and PCB design conducted for I year EEE Students.
17.	Guest lectures conducted for Students:	Refer Annexure III
18.	MoUs with Industries for Research / Consultancy/ internship / placements, etc.	Department: Existing: 09, Newly added: 01, Total:10 Central Level:02(1.NIT, Warangal 2. GMRI, Rajam)
19.	Students feedback	<ul style="list-style-type: none"> 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: -Certificate courses- Online courses	Self-learning platforms are NPTEL and Coursera. 221 Students completed using self-learning platforms.
22.	<p>Cut-off rank(Admission):</p> <p>Cut-off rank Previous year:</p> <p>OC: BC: SC: ST: PH:</p> <p>Audited year:</p> <p>OC: BC: SC: ST: PH:</p> <p>Improvement / no change / decline</p> <p>Note: If there is <u>no improvement</u> it needs to be discussed & suitable measures are to be taken up.</p>	<p>No change</p> <p>Refer Annexure-IV</p>

23	Range of CGPA&%of students 10-8 CGPA: 7-8 CGPA: 6-7 CGPA: 5-6 CGPA: No. and percentage of failures: Success rate as per NBA guidelines:	Performance of students in Marks of Batch wise of 2019-2023 7.5-10 CGPA:59 (First class with distinction) First class:62 Second class:2 Pass percentage:123/136=90.44% No.& percentage of failures:13 & 13/136=9.55% Success rate as per NBA guidelines: Pass percentage without backlogs :62/136=45.58%
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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:09 SCI / SCIE (Not ESCI):19 Without Indexing:01 Total:29 h-index: Dept & Highest in the faculty: Dept.:93 with reference to google scholar. Highest in the faculty: 13: 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):39 Total=41
3.	Faculty contribution in:books:book chapters: (Books/Chapters with ISBN/ISSN only are considered)	Books: 0 Book chapters:07
4.	Paper Publications& Book chapters:	Q1:10, Q2:9, Q3:6, Q4:4 Total:29 Book chapters:07
5.	Government: Funded R&D projects	Applied:01, Total Amount: Rs 1 Crore 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	NIL
8.	Faculty intellectual property rights / Patents:	Filed:07, Published:09, Granted:0
9.	In-house R&D grants & projects and Their outcomes	NIL
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:	01 7 VRSEC

12.	Research centers of excellence established: Outcome in research centers:	JNTUK R&D Center. Outcome: Two Scholars awarded P.hD under the guidance of Dr.P.V.R.L.Narasimham and Dr Subhojit Dawn. Name of Scholars: T. Naga Durga (JNTUK), Arup Das (Mizoram Central University)
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:	NIL
15	Start-ups & Entrepreneurships: No of Start-ups & status: Awards from outside platforms:	NIL

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.
2.	Internet facilities for faculty &Students:	1. 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). 2. 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. 3. The high-quality persistent bandwidth offers high speed and uninterrupted Internet connectivity from anywhere on the campus through the campus LAN & 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
3.	Technical manpower support added: IQACACADEMICAUDIT	01 – S.Venu Gopala Krishna-Lab Technician 02- M. Dinesh Raghava- Lab Technician 8 VRSEC
4.	Modern/new equipment added in Laboratories:	Refer Annexure-V

5.	New research facility /Computing facilities/ laboratory added:	NIL
6.	Dept. Newsletter/magazine:	Prepared Annually
7.	Department library: New additions Text books / References / Journals	Text Books /References:27 Magazines:02(Electronics for you, Electrical India) Journals: 01(ieema journal)
VI. Student information, Support and Progression		
S. No	Criterion	Observations
1	Industrial visits	Two tours were arranged.
2	Internships	Full time internships:113 students (6 weeks) (without Stipend) Internships through placements (with Stipend):07
3	Dept. student clubs: Activities:	Siddhartha Electrical Association (SEA) Activities conducted: Technical:01 Cultural: Nil
4	Details of coaching provided for GATE /GRE/any other competitive exams	-----
6	Students qualified in -GATE -GRE/etc.	Total 18 students qualified in different competitive examinations. GATE:00 GRE/TOEFL, etc :18
7	Students admitted for Higher studies (No & %):	Total 05 members Percentage:05/136=3.67% 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 : 136 Total No of eligible Students : 110 Total No of Placements : 124 Total No of Selected students : 92 % Placements with respective Eligible Students: 92/110=83.63% % Placements with respective intake : 67.64% 2 LPA to 4 LPA:56 4 LPA to 5LPA :50 5 LPA ABOVE:18 Highest Package : 9 LPA Average Salary : 4.17 LPA No of students placed in Core Companies : 52
9	Student prizes:	NSS/NCC...0.....Cultural...0 ... Sports.....0..... National Level, if any...0..... Technical Prizes:34 (quizzes, paper presentations, project expo etc.)
10	Student Scholarships: IQACACADEMICAUDIT	Siddhartha Sahaya (No.:12) 9 VRSEC

VII. Governance, Leadership and Management		
S. N O	Criterion	Observations
1	Setting of annual goals by individual faculty for their academic improvement.	HoD will collect the goals of faculty from every faculty member based on the goals set for the department for that A.Y. once in a semester.
2	Setting of departmental annual goals by HOD for the improvement of dept.	<ul style="list-style-type: none"> Improvement in Pass percentage, No. increase in good quality of Publications, research funding from Industry/alumni/Non Govt., No. 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	NIL
4	Non-teaching staff attended For skill development programs	<ul style="list-style-type: none"> 3-Non teaching staff attended one week workshop on Project development using Arduino Board organized by ECE Dept. VRSEC, Vijayawada. 7- Non teaching staff attended one day ACE workshop organized by dept. of EEE, VRSEC, Vijayawada. 5- Non teaching staff attended two days workshop on Development of System for Targeted Applications using ARM organized by dept. of ECE, PVPSIT, Vijayawada.
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:	<ul style="list-style-type: none"> Seed Grant for faculty: Nil Incentive for Sponsored projects: Nil Incentive for paper publications: Rs.82,166/- Attended FDPs/Seminars/R & D interactions through online: Rs13,329/-(Dr.BVR)
6	Financial support received from the Management: Student Projects: Model developments& exhibition: Student Innovations& exhibition:	<ul style="list-style-type: none"> Student Projects: Nil An amount of Rs 2.5 lakhs was sanctioned in the A.Y: 2019-20 under seed Money. <p>The above amount is being utilized for model developments like</p> <ol style="list-style-type: none"> Development of Inverter. Design of multifunction meter is in progress (Prototype model is Completed) by utilizing same amount for the A.Y 2021-22. <p>After utilizing seed money for the above developments an amount of Rs 1,76,948/- is available as balance.</p>
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 proposed for laboratory maintenance: Rs 3,70,000/- Utilised:2,61,702/-
9	Financial support/leaves for qualification/skill up-gradation:	1 Financial support: An amount of Rs. 82,166/- 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. <ul style="list-style-type: none"> • First aid kit, • Fire extinguisher • Electrical safety mats • Display of emergency phone nos.

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Dept.I QAC In-charge

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Academic Auditor

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Head of the Dept.

Academic Audit Report (Consolidated)

1. **Name of Department:** Electrical & Electronics Engineering . Year: 2022-23
2. **No: of full time permanent faculty** : 27
3. **No: of Visiting/Adjunct faculty** : 01
4. **No: of PG/UG courses** : PG:01 UG:01
5. **Curriculum Revisions Information:** UG:VR20,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
Employable courses:26
6. **Research:** Ph.D. Theses submitted:...00.....awarded:...01.....
Faculty guiding / guided Ph.Ds: 07
Publications in Jrs: SCI/SCIE...19Scopus.....09.....Total.....28.
Publications in Conferences: SCI/SCIE 0 Scopus: 25 Total: 25.
Student Publications:
-UG: SCI/SCIE:... 0 Scopus: 34 WoS:...0..... Others:...03.....Total: 37
-PG: SCI/SCIE: ...0 Scopus: 05 WoS: 0 .Others: 00 .. Total: 05
Dept H-index (Scopus data base): 93 . Highest H-Index of faculty: 13
Publications: Q1 : 10, Q2: 09, Q3: 06 Q4:04, Total: 29
7. **Sponsored projects:** Amount: Rs 10000000/- Applied:01,Ongoing: 00, completed: 0
8. **Consultancy Amount earned: Rs 4000/-**
9. **Start-ups & Entrepreneurship:** No: 0, Awards from outside platforms: 0.
10. **Incubation centers:** established: A.Y.2017-18, Status of incubation: The dept. has developed many working models.
11. **Patents:** Filled: 07, .Published: 09, Granted: 00.
12. **Innovations:** 0, Awards from outside platforms (reputed Institutions only) : 17.
13. **Books / Book chapters** (with ISBN/ISSN only are considered): 07
14. **e - Content developed:** Lectures added to Web-resources: 100% in LMS/Whats up groups/Group mails.
15. **Placements:** No: 124, Percentage: 83.63%, Median salary: 4.17Lakhs., Highest salary: 9lakhs.
16. **Higher Education:** GATE No: 00., GRE No: 08, Others (specify):10,
17. **New Equipment and Infrastructure** added: Refer Annexure-V .(Name & amount)
- 18.**Student feedback** on Curriculum, infrastructure and facilities: Yes or No----YES
- 19.**Strengths:**
 - 1.Courses with cutting edge Technology were introduced.
 2. Good research component from faculty.
 - 3.Good placements in core industry.
 - 4.Quality publications are good.
- 20.**Weaknesses** (mandatory field to fill):
 - 1.Industry interaction need to be enhanced.
 - 2.Regular grant (seed grant) should be enhanced.
 3. student training programs, value added courses are very insignificant.
 4. Industry interaction is poor. Only one MoU.
 5. Newsletter is not maintained.
 6. Research grants/seed money is nil
21. **Suggestions for improvement** (mandatory field to fill):
 - 1.Projects should be diverse and industry applicative.

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.

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Dept. IQAC In-charge

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Academic Auditor

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Head of the Dept.

IQAC Coordinator

Annexure-I

Editor-ships /Reviewer-ships

S.No	Name of the Faculty	Journal, Issue &No/ Proceedings	ISBN/ ISSN	Title of the Book/Paper
1	Dr. B. Srinivasa Rao	Energy Conversion & Management (SCI)	0196-8904	Act as a Reviewer
		Applied Soft Computing (SCI)	1568-4946	
		Electrical Power & Energy Systems (SCI)	0142-0615	
		IETE Journal of Research (SCI)	0377-2063	
2	Dr.G. Srinivasa Rao	Journal of the Institution of Engineers Springer Series B (Scopus)	2250-2114	Act as a Reviewer
3	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
4	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 ¹ (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
		International Journal of Energy Policy and Management	2472-9493	Editorial Board Member
		Journal of the Institute of Electronics and Computer	2643-8240	Editorial Board Member

Annexure-II

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

A.Y.2022-2023					
S.no	Name of the Faculty	Designation	Nature of Association	Duration	Organization
1.	Dr.N.Vamsi krishna	Senior Assistant Professor	Delivered a Key note for National FDP on "Recent Trends in Technological Advancement for Sustainable Society in the Area of Engineering - 2022(RTASsE-2022)	08/08/22 to 12/08/22	Siliguri Institute of Technology
2.	Dr.K.Dhananjay Rao	Assistant Professor	As a Resource person for Electric Vehicle Technology: Challenges and Opportunities	23-11-22	Sasi Institute of Technology
3.	Dr.K.Dhananjay Rao	Assistant Professor	As a Resource person for HYBRID ELECTRIC VEHICLES	21-11-22 to 25-11-22	GMRIT, Rajam
4.	Dr.G.Srinivasa Rao	Associate Professor	As a Resource person for MSME VENDOR DEVELOPMENT PROGRAM -2023	06-01-23 &07-01-23	MSME & FAPSIA
5.	Dr.N.Vamsi krishna	Senior Assistant Professor	As a Resource person for MSME VENDOR DEVELOPMENT PROGRAM -2023	06-01-23 &07-01-23	MSME & FAPSIA

Annexure-III

Activities of students in professional bodies

July-2022 to till date					
S.No	Professional Chapter	Type of Event	Date	Event Name	No. of students
1	IE(I)	webinar	11/07/222 and 12/07/22	DESIGN AND ANALYSIS OF POWER ELECTRONIC CONVERTERS FOR BATTERY CHARGING	110
2	IE(I)	Workshop	28/10/22	Technical fest	120
3	IE(I)	Workshop	29/11/22	Group discussion	25
4	IE(I)	Workshop	14/12/22	Energy conservation day	104
5	IE(I)	Workshop	21/12/22	ENTREPRENEURSHIP and INNOVATION as CAREER OPPURTUNITY	100
6	IE(I)	Workshop	28/01/23	Career Counselling	110
7	SEA	Guest lecture	13/02/23	Electric Vehicles and its future perspectives	105
8	IE(I)	Guest lecture	13/03/23	ChatGPT	110

Annexure –IV

Cut-off rank Previousyear:2021-22 and Cut-off rank in A.Y.:2022-23

EAMCET				
Category	General		Female	
	2021-22	2022-23	2021-22	2022-23
OC	62628	49272	-	47315
BC-A	49358	97100	-	100028
BC-B	-	102383	59641	124255
BC-C	-	-	-	-
BC-D	110389	54417	38294	67719
IQACACADEMICAUDIT		1		VRSEC
BC-E	36833	-	-	102124
SC	96366	116916	-	162793

ST	108699	137628	130715	-
CAP	-	-	-	-
NCC	-	-	-	-
PH	-	-	47858	-
SPORTS	-	-	-	-
EWS	61740	61913	45338	58814
ECET				
OC	83	37	125	-
BC-A	333	-	661	-
BC-B	-	-	-	-
BC-C	-	-	-	-
BC-D	-	157	-	-
BC-E	-	-	-	-
SC	358	-	-	-
ST	1605	1438	-	-

Annexure –V
2022-23 Utilization Non-Recurring

Expenditure on purchase of equipment- Total Rs: 3,87,995.96/-

S.No	Laboratory in which it is used or if a new lab is set up -details	Nature of the equipment	Amount spent Rs
1.	Electrical Measurements and control systems lab	1. Power and energy measurement in digital meter using CTs. 2. HTC Digital Multimeter DM-97-4	30,426.21/- 9,887.75/-
2.	Power Systems Lab (UG)	1. AE Make, 1-Phase 440V /110V Potential Transformers 500VA with enclosure (Coil Make: Copper). 2. FPGA advanced development board featuring Xilinx series of FPGA specially designed for experimenting and research system design.	22,420/- 1,12,000/-
3.	Electronics Lab	1. True RMS Handheld Digital	35,029/-

		Multimeter-12	
4.	Electrical Machines Lab	1.Double tube Rheostat, 6 ohms/20A. 2. Multimeter, Fluke make, model No IK-Fluke 107	8,602/- 6,749/-
5.	IOT lab	Raspberry pi4 with casing and connections	73,160/-
6.	Computer center Lab (PG)	MiPower software ASSC	70,800/-
7.	Computer center -3	ESD mat with wristband and grounding	18,922/-

Annexure –VI
Higher Studies
Academic Year 2022-23

S.No	Roll No	Name of the Student	Higher Study Program Name	Admission Details (Name of the Institution/University)	Place
1	198W1A0226	Y.Jyoshitha	MS	University of Massachusetts Dartmouth	US
2	198W1A0255	Thanmai Reethika .T	MS	University of Pacific	US
3	198W1A0225	H.S.Niharika	MS	University of Pacific	US
4	198W1A0237	Md.Rasheed Ahamed	MS	Concordia University	US
5	208W5A0207	P.Sai Kiran	M.Tech	NIT,Surathkal	India