**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 : 2021-22

**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 2017-21 and 2018-22 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.<br>-More industry-oriented courses<br>-More Elective courses<br>With the approval of DAB and BOS members. |
| 3. | Extent of stakeholders satisfaction with curriculum revision | • Curriculum will be revised by considering the inputs from stake holders (Faculty, student, Parents& Alumni).<br>• The inputs are reviewed and forwarded to concern course coordinators through module coordinators.<br>• Suggestions &recommendations given by DAB & BOS members are considered and implement for Curriculum revision. |
| 4. | -New courses introduced<br>-Courses upgraded with more than 25% of course, content | • Skill oriented course-1: Design Thinking(20EE4607)<br>• Humanities and Social Sciences: Universal Human Values(20HS4105)<br>• Program Elective 1: Artificial Neural Networks and Fuzzy Logic/Data Communication and Networking(20EE5404)<br>• Mandatory Course (AICTE suggested): Innovation, IPR and Entrepreneurship(20MC5108B)<br>• Open Elective-2/ Job oriented elective-2: Machine Learning using Python/Electric Vehicles(20EE6205) |
| 5. | Lab component<br>- New labs added<br>-No. of new experiments introduced<br>-New Hardware/Software developed | **New labs added**:<br>• IoT lab(20EE5353)<br>• Skill oriented course-2: Data Structures Lab(20EE5607)<br>**No. of new experiments introduced:**<br>**Measurements and Control Systems Lab:** |

| | | |
|---|---|---|
| | | 1.Characteristics of (resistive and thermo e.m.f.) temperature sensor, and piezoelectric system. 2. Measurement of displacement using LVDT and characteristics of hall-effect sensor. 3. Measurement of strain using strain gauge and temperature measurement using LM35 & thermistor. 4. Speed measurement using magnetic sensor and displacement measurement using inductive pickup 5. Measurement of power and energy in digital meters with CTs 6. Data acquisition from energy meter using RS232/RS485. 7. Simulation of CRO, function generator and spectrum analyzer using analog discovery kit.<br>**Electrical Machines-I Lab:**<br>1.Simulation Of Speed Control Of Dc Shunt Motor<br>2.Simulation Of Open Circuit And Load Characteristics Of Dc Separately Excited Generator<br>3.Simulation of open circuit and short circuit tests on single phase transformer<br>4. Simulation of Load test on three phase transformer<br>**Electrical Machines-II Lab**:<br>1.Simulation for speed control of 3-Φ squirrel cage induction motor<br>2.Modeling and simulation of three phase Induction motor. |
| 6. | No & % of courses focusing on employability/ entrepreneurship/ skill development. | Employability:19, Entrepreneurship: 3<br>Skill development: 6<br>19/41=46.34% |
| 7. | No of students undertaken<br>-full time field projects:<br>-full time internships: | Full time field projects: Nil<br>Full time internships: 67 students (1month) (without Stipend)<br>Internships through placements (with Stipend):16 |

| **II. Faculty information and their contribution** | | |
|---|---|---|
| **S. No** | **Criterion** | Observations |
| 1. | Teacher-student ratio | 18.95:1 (inclusive of UG and PG faculty and Students) |
| 2. | Faculty Cadre ratio | 3:3:18 (Excluding first year faculty) |
| 3 | Faculty experience & retention | More than 3 years:18members<br>More than one year but Less than 3years: 9 |
| 4. | Faculty qualifications:<br>Percentage of existing faculty with PhD<br>Faculty awarded with PhD:<br>Faculty submitted their PhD:<br>Faculty pursuing PhD:<br>Faculty registered for PhD: | <br>48.14% (13/27)<br>01(Dr. K. Dhananjay)<br>01(Smt. J. Vimala Kumari)<br>12<br>NIL |
| 5. | Faculty with Post-Doctoral Fellowship or Pursuing it: | 01 (Dr. Zameer Ahmad) pursuing Post-Doctoral fellowship.<br>Name of University: Delft University of Technology, Netherlands |
| 6 | Faculty guiding/guided PhDs: | 7 faculty members guiding Ph.D.<br>(NIT Meghalaya, Mizoram University, JNTUK, |

| | | |
|---|---|---|
| | | Annamalai University) |
| 7. | Percentage of faculty contributing in …<br>……..research publications:<br>……..books:<br>……..chapters: | Research publications:22/27=81.48%<br>Books:0<br>Chapters:5/27=18.51% |
| 8. | e-Content development / Lectures added to Web-resources | Lecturer notes, ppts, Question banks, Tutorial sheets uploaded unit wise in LMS. |
| 9. | Faculty ***contribution*** in professional organizations/ Reviewer /Editorial boards: *(not mere memberships)* | Refer Annexure-I<br>K.Dhanunjaya (Professional coordinator IEI))<br>Subhojit Dawn (Delivered Lecture under IET)<br>Dr.B.Srinivasa Rao( Senior member in IEEE ) |
| 10. | Academic Awards/Rewards received: | 1.Dr. Subhojit Dawn-Best Associate Editor Award - Journal of Electrical Engineering & Technology, Springer, December 2021. |
| 11. | Faculty contribution in Industry/ Institute collaborative projects | NIL |
| 12. | Faculty trained in Industry | Twenty faculty members attended 6 industries offered training programs through online media.(Refer Annexure-II) |
| 13 | Faculty contribution in obtaining internships/ Placements / MoUs | Internships:01 student (3 months) (M.Syamala)<br>No.of Placements:05<br>1.Dr.PVRLN:01( Eruvaka Technologies Pvt.Ltd),<br>2.DrBSR:04 (NAVKONE)<br>MOUs:NIL |
| 14 | Faculty as resource persons in webinars/ workshops/ key note speaker /training activities | Refer Annexure-III |
| 15 | National level events organized<br>-Conferences:<br>-Workshops/Seminars:<br>- Webinars<br>-FDPs:<br><br><br><br><br><br><br><br><br><br>International level events organized<br>-Conferences<br>- Webinars<br>-Workshops/Seminars | NIL<br>NIL<br>NIL<br>02(FDPs)<br>1. One-week National Level online STTP on "Recent Trends and Challenges in Power Market with Smart Grid Technology" organized by the Department of Electrical & Electronics Engineering, VRSEC, held between 20-9-21 to 25-9-21.<br>2. One week online Faculty Development Program on "Recent Advancements in Generation and Control in Modern Power Systems" jointly organized by the Department of Electrical & Electronics Engineering, GMR Institute of Technology, Rajam and Velagapudi Ramakrishna Siddhartha Engineering College, Vijayawada, Andhra Pradesh, India held between 7th -12th March 2022.<br><br>NIL<br>NIL<br>NIL |

| | | |
|---|---|---|
| 16 | List of conferences/seminars/webinars/ workshops/FDPs attended for the enrichment of teaching – learning process | Conferences:25<br>Seminars/Webinars:16<br>Workshops:13<br>FDPs:23<br>Coursera: Nil<br>NPTEL:4<br>Refer Annexure-IV |
| 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 Returning officer for IETE Vijayawada chapter elections.<br>2. Dr PV R L Narasimham acted as BOS member in Dept. of EEE, Narayana Engg. College, Nellore.<br>3. Dr. A.Ramadevi attended to mentoring NBA Accreditation process under Margadarshan scheme at Sasi institute of Engineering and Technology.<br>4. Dr. G.Srinivasa Rao attended to mentoring NBA Accreditation process under Margadarshan scheme at Sasi institute of Engineering and Technology.<br>5. Dr.G.Srinivasa Rao acted as a Resource person for Rountable meet Entrepreneurship Innovation Start-Ups in HEI's of AP organized by QA Cell, APSCHE, Mangalagiri. |

| **III. Teaching-Learning Process and Evaluation** | | |
|---|---|---|
| **S. No** | **Criterion** | **Observations** |
| 1. | Student performance indices –<br>Measures to reduce detentions<br>-Attendance(detentions if any):<br>-Exams(detentions if any): | 1. Senior faculty interaction with students<br>2. Parents meet<br>3. Counseling by faculty.<br>Detention:<br>3rd sem:det: 0 4th sem det:02<br>5th sem:det: 0 6thsem det:0<br>7th sem:det:0 8th sem det:0 |
| 2. | Mechanism and activities for slow learners:<br>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).<br>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.<br>**Outcome:** The performance of some slow learners has been improved in continuous assessments and end semester examination. |

| | | |
|---|---|---|
| 3 | Mechanism and activities for Fast learners to excel:<br>Outcome: | 1. CBCS is implemented for fast learners so that they can concentrate more on their project work or can do their project at industry.<br>2. Guest lectures on advanced topics were conducted on recent trends so that the fast learners can work in that area.<br>3. Fast learners were encouraged to publish their project work in reputed journals and conferences.<br>4. Allowed to attend full time internships.<br>5. Honor and Minor degree courses have been introduced for fast learners so that they get more opportunities in different areas.<br>**Outcome:**<br>1. UG students have made 16 publications.<br>2. Few students were placed in core industry based on the skills acquired by them during the training programs.<br>No of students placed in Core Companies : 9 |
| 4 | Bridge courses:<br><br>Value added courses: | • Conducting Bridge course for lateral entry students in Mathematics Course (20BS3101).<br>• Four Days Workshop on Artificial Intelligence by PANTECH Solutions conducted for IIIyear Students. |
| 5 | Quality circles and Practice:<br>Outcome: | Quality circles are conducted for course EM-I in A.Y 2021-22.<br>**Outcome:** The performance of some of the slow learner has been improved in continuous assessments and end semester examination. |
| 6. | Student counseling/mentoring Mechanism | 1. Maintaining Proctor Dairy.<br>2. For every 18 number of students one counselor is allotted.<br>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.<br>**In A.Y. 2021-22**<br>1. Whatsapp groups were created by counselors for their respective allotted students and communicating the necessary information whenever required.<br>2. Attendance of every class is posted in the whatsapp groups and monitored by the respective counselors.<br>3. Student group mail is created for circulating the information and placing e-content. |
| 7. | Initiatives taken for innovative mini and major projects<br>-Training for students& faculty | • Conducted workshops and guest lectures from industry experts on Latest technologies.<br>• Students are explored to real time problems.<br>• Students are motivated to publish their projects in reputed Journals and Conferences. |
| 8. | Best student projects with awards | **Best student Projects:**<br>1. Multifunctional spy robo with virtual reality.<br>2. Electronic eye for blind using Raspberry |

| | | |
|---|---|---|
| | | 3.Comparision and analysis of SL-DC-DC convertor with VH-DC Convertor. |
| 9 | Student Model developments:<br>Awards: | **Student Model developments:** Various working models are developed through mini-Project<br>Awards: NIL |
| 10 | Student Innovation details:<br>Awards: | Innovation day on 12-10-2021.<br>Awards: First and Second prizes secured by III/IV B.Tech students<br>(Energy from green plants, Storing renewable energy in the form of hydrogen) |
| 11 | Student Publications (other than IV.1)<br>-UG:<br>-PG: | <br>UG students:16<br>PG students:06 |
| 12 | Monitoring of teaching-learning process<br>--Mechanism for Assessment of teaching process in classrooms.<br>--Random verification of evaluated answer papers and question paper during the semester.<br>--Innovative teaching methods presented, if any<br>--Verification of course files | 1. Assessment of teaching process in classrooms is monitored by Head of the Department through feedback and interaction.<br>2. 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.<br>3. The innovative teaching methods presented through lab taken to class (LTC).<br>4. Yes. All the course files have been verified by both Program coordinator and H.O.D. |
| 13 | Student enrolment in CBCS | 1. Solar Photovoltaic (17EE4801A)-37 Students.<br>2. Digital controllers lab(17EE4755D)- 39 Students<br>3. OptimizationTechniques(17EE4702D)32Students |
| 14 | EPICS<br>Projects:<br>Awards: | <br>Projects:34<br>Awards: NIL |
| 15 | Activities of students in professional bodies:<br>Awards in co-curricular activities: | Refer Annexure-V<br>• 10 students participated in various events like quiz, master class, workshops etc. conducted by premier institutions |
| 16 | Training programs/Seminars/workshops organized for students: | 1. Four Days Workshop on Artificial Intelligence by PANTECH Solutions conducted for III year Students. |
| 17. | Guest lectures conducted for Students: | Refer Annexure V |
| 18. | MoUs with Industries for Research / Consultancy/ internship / placements, etc. | Department: Existing: 09, Newly added: 0, Total:09<br>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<br>• Course end survey collected at the end of semester for each course.<br>• 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 4.7 on a scale of 5 and |

| | | |
|---|---|---|
| | | advisory letters are given to the faculty whose feedback score is less than 3.8. |
| 21. | Scope for Self-learning:<br>-Certificate courses-<br>Online courses | Self-learning platforms are NPTEL and Coursera<br><br>90 students completed using self learning platforms |
| 22. | Cut-off rank(Admission):<br>Cut-off rank Previous year:<br>OC: BC: SC: ST: PH:<br>Audited year:<br>OC: BC: SC: ST: PH:<br>Improvement / no change / decline<br><br>***Note: If there is <u>no improvement</u> it needs to discussed & suitable measures are to be taken up.*** | No change<br>Refer Annexure-VI |
| 23 | **Range of CGPA&%of students**<br>10-8 CGPA:<br>7-8 CGPA:<br>6-7 CGPA:<br>5-6 CGPA:<br>No. and percentage of failures:<br><br>Success rate as per NBA guidelines: | Performance of students in Marks of Batch wise of 2018-2022<br>8-10 CGPA:51(First class with distinction)<br>7-8GPA:48(First class)<br>6-7CGPA:18(Second class)<br>5-6 CGPA:12<br>No.& percentage of failures:8(Eighth semester) 8/139=5.75%<br>Success rate as per NBA guidelines:<br>Pass percentage without backlogs :64/139=46.04% |

| **IV. Research, Consultancy and Extension** | | |
|---|---|---|
| **S. No** | **Criterion** | **Observations** |
| 1. | Faculty publications in journals:<br>(other than III.11)<br>Scopus indexed:<br>SCI / SCIE (Not ESCI):<br>Total:<br>h-index: Dept &Highest in the faculty. | Scopus indexed:08<br>SCI / SCIE (Not ESCI):15<br>Without Indexing:0<br>Total:23<br>h-index: Dept &Highest in the faculty: Dept.:83 with reference to google scholar.<br>Highest in the faculty: Dr.Subhojit Dawn, Dr.B.Venkateswara Rao and Dr Zameer Ahamad:9 |
| 2. | Publications in conferences:<br>- National (Scopus, SCI& equivalent)<br>- International (Scopus, SCI equivalent)<br>- Total: | National (Scopus, SCI& equivalent):0<br>International(Scopus, SCI equivalent):25<br>Total=25 |
| 3. | Faculty contribution in:<br>……..books:<br>……..book chapters:<br>(Books/Chapters with ISBN/ISSN only are considered) | Books: 0<br>Book chapters:06 |
| 4. | Paper Publications& Book chapters: | Q1:7, Q2:8, Q3:4, Q4:2<br>Total:21<br>Book chapters:06 |
| 5. | Government: Funded R&D projects | Applied:3, Total Amount: Rs85,79,088/-<br>Ongoing: Nil, Total Amount: Nil<br>Completed: Nil, Total Amount: Nil |

| | | |
|---|---|---|
| 6. | Non- Government: Funded R&D projects / Industry sponsored projects | Applied: Nil, Total Amount: Nil<br>Ongoing: Nil, Total Amount: Nil<br>Completed Nil, Total Amount: Nil |
| 7. | Faculty involved Consultancy& amount earned | NIL |
| 8. | Faculty intellectual property rights / Patents: | Filed:6, Published:5, Granted:0 |
| 9. | In-house R&D grants &projects and Their outcomes | Received Rs 2.25 lakhs from the Institute.<br>**Outcome:** The department has developed many working models like Smart device with Arduino controller for home inverter, Solar based laptop charger, High security alert system of industrial parameters etc. |
| 10. | New research facilities/laboratory Facilities added | Laboratory facilities added: **Refer Annexure –VII** |
| 11. | MOU' s with industries/R&D/Premier Institutes<br>Details of activities: | NIL |
| 12. | Research centers of excellence established:<br>Outcome in research centers: | JNTUK R&D Center.<br>Outcome: One Scholar awarded P.hD under the guidance of Dr.P.V.R.L.Narasimham<br>Name of Scholar: K V Kumar Kavaturu |
| 13 | Skill development centers established:<br><br><br><br><br><br>outcome: | Yes<br>APSSDC -01<br>SEIMENS Lab:04 labs related to EEE<br>1.Energy Studies lab<br>2.Automation lab<br>3.Low voltage switchgear lab<br>4.Drives lab<br>**Outcome:** Lab experiments was done by students (PS lab, PLC and SCADA lab) |
| 14 | Incubation centers:<br>- Established with outside Industries :<br>-Status of incubation: | NIL |
| 15 | Start-ups & Entrepreneurships:<br>No of Start-ups & status:<br>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:<br><br><br>IQACACADEMICAUDIT | 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).<br>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.<br>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.<br>No. of Wi-Fi points:11 in the department |
| 3. | Technical manpower support added: | 01 -D. Surya Kumar-Junior Mechanic |
| 4. | Modern/new equipment added in Laboratories: | Refer Annexure-VII |
| 5. | New research facility /Computing facilities/ laboratory added: | Laboratory added: Computer Centre -3 |
| 6. | Dept. Newsletter/magazine: | Prepared Annually |
| 7. | Department library: New additions Text books / References / Journals | Text Books /References:25<br>Magazines: NIL, Journals: NIL |

## VI. Student information, Support and Progression

| S. No | Criterion | Observations |
|---|---|---|
| 1 | Industrial visits | One tour is arranged.<br>Less no. of visits due to pandemic. |
| 2 | Internships | Full time internships:67 students (1month) (without Stipend)<br>Internships through placements (with Stipend):16 |
| 3 | Dept. student clubs:<br>Activities: | Siddhartha Electrical Association (SEA):<br>Activities conducted:<br>Technical:03<br>Cultural: Nil |
| 4 | Details of coaching provided for GATE /GRE/any other competitive exams | Under PRERANA scheme providing coaching for GATE students at institute level. (SC/ST students)<br>No. of students enrolled from EEE Dept.:30 |
| 6 | Students qualified in<br>-GATE<br>-GRE/etc. | Total 20 students qualified in different competitive examinations.<br>GATE:03<br>GRE/TOEFL, etc :17 |
| 7 | Students admitted for Higher studies (No & %): | Total 10 members<br>Percentage:10/139=7.19%<br>Refer Annexure VIII |
| 8 | Total Placements(No & %) in the Dept:<br><br>2 - 4 Lakhs (No.)<br>4 Lakhs-5Lakhs (No.):<br>5 Lakhs above (No.):<br>Highest salary (No.):<br>Median salary: | Total No of Students : 139<br>Total No of eligible Students : 98<br>Total No of Placements : 124<br>Total No of Selected students : 98<br>**% Placements with respective Eligible Students: 100%**<br>% Placements with respective intake : 70.5%<br><br>2 LPA to 4 LPA:88<br>4 LPA to 5LPA :19<br>5 LPA ABOVE:17<br>Highest Package : 25 LPA<br>Average Salary : 5.27 LPA<br>No of students placed in Core Companies : 9 |

| | | |
|---|---|---|
| 9 | Student prizes: | NSS/NCC…0…..Cultural…0 … Sports……0……<br><br>National Level, if any…0……<br>Reason: Physical presence is absent due to pandemic |
| 10 | Student Scholarships: | Siddhartha Sahaya (No.:08)<br>Students of EEE claim scholarship from North South Foundation. |

| **VII. Governance, Leadership and Management** | | |
|---|---|---|
| **S. No** | **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. | • Improvement in Pass percentage,<br>• No. increase in good quality of Publications, research funding from Industry/alumni/Non Govt.,<br>• No. increase in filing patents<br>• Improvement in placements and higher studies<br>• Incubation, startups and entrepreneurs etc. |
| 3 | Teaching staff attended for skill development/ Industry training/any professional development programs | 20 faculty members attended 6 industries<br>Refer Annexure II |
| 4 | Non-teaching staff attended<br>For skill development programs | • 7-Non teaching staff attended training program for technicians on fire safety organized by CE Dept. VRSEC.<br>• 1- Non teaching staff attended two days IoT workshop organized by dept. of ECE, PVPSIT, Vijayawada<br>• 5- Non teaching staff attended carrier counselling and skill development organized by IT dept., VRSEC under AICTE Margadarshan scheme. |
| 5 | Financial support received from the Management:<br>Seed Grant for faculty:<br>Incentive for Sponsored projects:<br>Incentive for paper publications:<br>Attending FDPs/ Seminars/etc:<br>Attending overseas seminars:<br>Interaction with R & D personnel:<br>Others: | • Incentive for Sponsored projects: Nil<br>• Incentive for paper publications: Rs.61,667/-<br>• Attended FDPs/Seminars/R & D interactions through online: **Registration fee** |
| 6 | Financial support received from the Management:<br>Student Projects:<br>Model developments& exhibition:<br>Student Innovations& exhibition:<br>IQACACADEMICAUDIT | 1. Received Rs 2.25 lakhs from the Institute.<br>2. An amount of Rs 2.5 lakhs was sanctioned in the A.Y: 2019-20 under seed Money.<br>The above amount is being utilized for model developments like<br>i. 1( Development of Inverter. VRSEC<br>ii. Design of multifunction meter is in progress(Prototype model is Completed) by utilizing same amount for the A.Y 2021-22. |

| | | |
|---|---|---|
| | | |
| 7 | Quality policy& Quality objectives<br>Committees &duties:<br>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<br>**Quality objectives:**<br>1.Conducting of conference in a year<br>2.Establishment of smart class rooms<br>3.Conductiing of at least 8 guest lecturers in a year<br>4.Conducting of two workshops in a year<br>5.Iimprovement results in each subject. Target value is 90%.<br>**Committees:**<br>1.Program Assessment Committee (PAC)<br>2.Department Advisory Board (DAB)<br>3.Board of Studies (BOS)<br>4.Module coordinator committee<br>5.Course coordinator committee |
| 8 | Maintenance<br>-General<br>-Laboratory<br>-Others | Periodical maintenance of Academic facilities and physical facilities are well maintained.<br>Budget proposed for laboratory maintenance: Rs 6.67 lakhs<br>Utilised:6.70264 Lakhs<br>Budget proposed for other than laboratory maintenance: Rs 2.25lakhs<br>Utilised:1.6503 Lakhs |
| 9 | Financial support/leaves for qualification/skill up-gradation: | 1 Financial support: An amount of Rs.61,667/- was received by faculty as an incentives towards paper publication in reputed journals and conferences.<br>2. leaves for qualification: Study leave for post Doc. (Dr.Zameer Ahmad)<br>3. 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.<br>• First aid kit,<br>• Fire extinguisher<br>• Electrical safety mats<br>• Display of emergency phone nos. |

**……..** **…….** **…….**

**Dept.I QAC In-charge** **Academic Auditor** **Head of the Dept.**

# **Academic Audit Report** (Consolidated)

1. **Name of Department**: Electrical & Electronics Engineering . Year: 2021-22
2. **No: of full time permanent faculty** : 27
3. **No: of Visiting/Adjunct faculty** : 02
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) .05

   **Employable courses**:19
6. **Research**: Ph.D. Theses submitted:…01……awarded:…01……
   Faculty guiding / guided Ph.Ds: 12
   Publications in Jrs: SCI/SCIE…15 ……Scopus……08…..Total……23.
   Publications in Conferences: SCI/SCIE 0 Scopus: 25 Total: 25.
   Student Publications:
   -UG: SCI/SCIE:… 0 Scopus: 10 WoS:…0….. Others:…6…..Total: 16
   -PG: SCI/SCIE: …0 Scopus: 05 WoS: 0 .Others: 01 .. Total: 06
   Dept H-index (Scopus data base): 83 . Highest H-Index of faculty: 09
   Publications: Q1 : 07, Q2: 08, Q3: 4 Q4: 2, Total: 21
7. **Sponsored projects: A**mount: Rs 8579088/- Applied:03,Ongoing: 00, completed: 0
8. **Consultancy Amount earned: 0**
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: 06, .Published: 05, Granted: 00.
12. **Innovations**: 0, Awards from outside platforms (reputed Institutions only) : Nil.
13. **Books / Book chapters** (with ISBN/ISSN only are considered): 06
14. **e - Content developed:** Lectures added to Web-resources: 100% in LMS
15. **Placements:** No: 124, Percentage: 100%, Median salary: 4.59Lakhs., Highest salary: 25lakhs.
16. **Higher Education:** GATE No: 03., GRE No: 10, Others (specify):0 7,
17. **New Equipment and Infrastructure** added: Refer Annexure-IV .(Name & amount)
18. **Student feedback** on Curriculum, infrastructure and facilities: Yes or No----YES
19. **Strengths**:

    **1**. Strong Leadership with Good teamwork

20. **Weaknesses**(mandatory field to fill):
    1. Student Outreach
    2. Consultancy
    3. Funded Project
    4. Entrepreneur Ecosystem

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

1. Formation of student Clubs & Encourage students to work in teams.
2. Encourage students and participate in various national and international technical competitions.
3. Encourage faculty in applying funded projects for external agencies.

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 | 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 (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

**LIST OF FACULTY TRAINED IN INDUSTRY DURING 2021-22**

| S.no | Name of the Faculty | Industry Training & Location | Duration of the Program | Content |
|---|---|---|---|---|
| 1. | Dr.P.V.R.L.Narasimham | Tata Power Delhi Distribution Limited, New Delhi | 28-09-21 & 29-9-21 | Webinar on "Electric Vehicle Charging and Solar Rooftop" |
| 2. | Dr.A.RamaDevi | Pantech ProLabs India Pvt. Ltd. | 14/3/2022 to 31/03/2022 | PCB DESIGN |
| 3. | Dr.B.Srinivasa Rao | APSSDC in association with Pantech solutions e-learning Pvt.Ltd, Chennai | 17.10.21 to 16.11.21 | 25 Days Renewable energy system Master class |
| 4. | Smt.S.V.R.L.Kumari | Tata Power Delhi Distribution limited, New Delhi | 20.0.1.22 to 21.01.22 | Master Class on 'Microgrids' |
| 5. | Dr.G.Srinivasa Rao | APSSDC | 23-9-2021 to 25-9-2021 | FDP on Electrical and Energy Studies - basics of Low voltage Switch gear-3 |
| 6. | Dr.B.Venkateswara Rao | SELECT, VIT, Vellore | 23/06/22 & 24/06/22 | Two Day Virtual Academia – Industry Conclave on Recent Trends in Smart Power Systems |
| 7. | Dr.N.Vamsi Krishna | Labview Academy Centre of Excellence | 19-01-22 to 27-03-22 | Industrial /Professional Training Program on Machine Learning |
| 8. | Sri.P.Venkatesh | Tata Power Delhi Distribution limited, New Delhi | 23.12.21 to 24.12.21 | Master Class on 'Role of GIS in Power Distribution' |
| 9. | Sri.S.N.V.S.K.Chaitanya | AndhraPradesh State Energy Conservation Mission & Bureau of Energy Efficiency | 29-12-21 to 30-12-21 | Energy Simulation for Energy Conservation Building Code (ECBC) & Eco-Niwas Samhitha (ENS) |
| 10. | Sri.T.Suneel | Electrical and Energy Studies-Basics of AC DC Drives | 27-09-21 to 4-10-21 | APSSDC |
| 11. | Sri.R.Madhusudhana Rao | Labview Academy Centre of Excellence | 19-01-22 to 27-03-22 | Industrial /Professional Training Program on Machine Learning |
| 12. | Sri.V.Hari Vamsi | NSIC,Hyderabad | 20/09/21 to 24/09/21 | One week online FDP on "Industrial IOT: |

| | | | | |
|---|---|---|---|---|
| | | | | Automation,PLC's,VFD & WEBSERVER" |
| 13. | Dr.A.Veera Reddy | NSIC,Hyderabad | 16/06/22 to 30/06/22 | PV System and Design |
| 14. | Dr.P.Chandra Babu Naidu | APSSDC in association with Pantech solutions e-learning Pvt.Ltd, Chennai | 17.10.21 to 16.11.21 | 25 Days Renewable energy system Master class |
| 15. | Sri.P.Sowmith | NSIC,Hyderabad | 20/09/21 to 24/09/21 | One week online FDP on "Industrial IOT: Automation,PLC's,VFD & WEBSERVER" |
| 16. | Sri.K.Saiteja | NSIC,Hyderabad | 20/09/21 to 24/09/21 | One week online FDP on "Industrial IOT: Automation,PLC's,VFD & WEBSERVER" |
| 17. | Dr.Subhojit Dawn | Elite Techno Groups | 22/06/22 | EV Battery Pack Sizing |
| 18. | Sri. V Ravindranadh Chowdary | Centre of Excellence National Instruments Innovation Centre | 01-08-21 to 11-09-21 | Industrial Automation Based Online Summer Internship Program |
| 19. | Dr.K.DhananjayaRao | Elite Techno Groups | 22/06/22 | EV Battery Pack Sizing |
| 20. | Smt.J.Vimala Kumari | APSSDC | 27/09/21 to 01/10/21 | Automation Basics & HMINetworking |

**Annexure-III**

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

| A.Y.2021-2022 | | | | |
|---|---|---|---|---|
| **S.no** | **Name of the Faculty** | **Designation** | **Nature of Association** | **Organization** |
| 1. | Dr.Subhojit Dawn | Assistant Professor | Resource person for Webinar on Renewable Energy Integration in Deregulated Power System | Institute of Engineering & Technology, Kolkata Local Network |
| 2. | Dr.Subhojit Dawn | Assistant Professor | As a key speaker in Workshop on "Dynamic Distribution System – A New Architecture", | Swami Vivekananda University, Kolkata |
| 3. | Dr.B.Srinivasa Rao | Professor | As a Resource person for Recent Advancements in Generation and Control in Modern Power Systems | Jointly organized by VRSEC & GMRIT |
| 4. | Dr.G.Srinivasa Rao | Associate Professor | As a Resource person for Recent Advancements in Generation and Control in Modern Power | Jointly organized by VRSEC & GMRIT |

| | | | | |
|---|---|---|---|---|
| | | | Systems | |
| 5. | Dr.B.Srinivasa Rao | Professor | Delivered a Session Talk at National Conference on Smart Electrical & Communication Technologies | Sir CRR College of Engineering |
| 6. | Dr.B.Srinivasa Rao | Professor | Acted as Judge at National Conference on Smart Electrical & Communication Technologies. | Sir CRR College of Engineering |
| 7. | Dr.B.Venkateswara Rao | Associate Professor | Acted as Techical Session Chair, III Innovative Product Design and Intelligent Manufacturing Systems | Dept. of Industrial Design & Dept. of ME, NIT Rourkela |

## Annexure-IV

**FACULTY ATTENDED WORKSHOP IN A.Y. 2021-2022**

| S.No | Name of the Faculty | Designation | Name of the Workshop | Duration | Organized by |
|---|---|---|---|---|---|
| 1 | Dr.G.Srinivasa Rao | Associate Professor | Innovation Ambassador training | 30/06/21 to30/07/21 | MoE's Innovation Cell & AICTE |
| 2 | Dr.P.ChandraBabu Naidu | Assistant Professor | RENEWABLE ENERGY SYSTEM DESIGN USING MATLAB WEBINAR SERIES | 18-10-21to 16-11-21 | APSSDC |
| 3 | V Ravindranadh Chowdary | Assistant Professor | Workshop on Improving Research & Performance Outcomes | 31/08/21-01/09/21 | Elsevier |
| 4 | V Ravindranadh Chowdary | Assistant Professor | Indo-US SPARC Online Workshop on Smart Grid Empowering Smart Cities (SGESC)-2021 | 18th – 22nd, October 2021 | Department of Electrical Engineering, National Institute of Technology Calicut |
| 5 | Dr.J.Ramesh | Associate Professor | Smart Grid empowering Smart Cities | 18.10.21 to 22.10.21 | Department of Electrical Engineering, National Institute of Technology Calicut |
| 6 | S.V.R.L.Kumari | Associate Professor | Master Class on 'Role of GIS in Power Distribution' | 23.12.21 to 24.12.21 | Tata Power Delhi Distribution limited, New Delhi |

| | | | | | |
|---|---|---|---|---|---|
| 7 | Dr.G.Srinivasa Rao | Associate Professor | IP Awareness Training Program under National Intellectual Property Awareness Mission | 1/19/2022 | Intellectual Property Office, India |
| 8 | V Hari Vamsi | Assistant Professor | Energy Simulation for Energy Conservation Building Code (ECBC) & Eco-Niwas Samhitha (ENS) | 29-12-21 to 30-12-21 | AndhraPradesh State Energy Conservation Mission & Bureau of Energy Efficiency |
| 9 | S.N.V.S.K.Chaitanya | Assistant Professor | Energy Simulation for Energy Conservation Building Code (ECBC) & Eco-Niwas Samhitha (ENS) | 29-12-21 to 30-12-21 | AndhraPradesh State Energy Conservation Mission & Bureau of Energy Efficiency |
| 10 | P.Venkatesh | Assistant Professor | Master Class on 'Role of GIS in Power Distribution' | 23.12.21 to 24.12.21 | Tata Power Delhi Distribution limited, New Delhi |
| 11 | Dr.A.Rama Devi | Professor | PCB Design Workshop | 14.03.22 to 31.03.22 | Pantech Pro Labs India Pvt. Ltd |
| 12 | Dr.A.Rama Devi | Professor | Master Class on ESD, IOT & PCB Design | 09.02.22 to 14.03.22 | Pantech Pro Labs India Pvt. Ltd |
| 13 | S.V.R.L.Kumari | Associate Professor | Master Class on 'Microgrids' | 20.0.1.22 to 21.01.22 | Tata Power Delhi Distribution limited, New Delhi |
| FACULTY ATTENDED SEMINAR's IN A.Y. 2021-2022 | | | | | |
| S.No | Name of the Faculty | Designation | Name of the Seminar/webinar | Duration | Organized by |
| 1 | Dr.G.Srinivasa Rao | Associate Professor | IPR: Key to India's Future Journey | 8/14/2021 | Turnip Innovations Pvt.Ltd |
| 2 | Dr.P.V.R.L.Narasimham | Professor & Head | Webinar on "Electric Vehicle Charging and Solar Rooftop" | 28-09-21 &29-9-21 | Tata Power Delhi Distribution Limited, New Delhi |
| 3 | DR.P.CHANDRA BABU NAIDU | Assistant Professor | Intelligent IoT and its applications | 12th November 2021 | VRSEC |

| | | | | | |
|---|---|---|---|---|---|
| 4 | Dr. B.Srinivasa Rao | Professor | Feature Funding Opportunities for NGOs and Academic Institute-Oct-2021 | Oct 15, 2021 6:30 PM | Navjivan Center for Development, Gujarat |
| 5 | V Ravindranadh Chowdary | Assistant Professor | Webinar on IPR | 14-08-2021 | Turnip Innovations Pvt Ltd |
| 6 | Vimala Kumari J | Assistant Professor | Intelligent IoT and its applications | Nov 12. 2021 11:00AM to 12:00 PM | VRSEC |
| 7 | Dr. Narendra Babu A | Assistant Professor | Artificial Intelligence in Remote Sensing Applications | Sep 27 to Oct 08, 2021 | VRSEC |
| 8 | DR.P.CHANDRA BABU NAIDU | Assistant Professor | SDG-7 Impact on Indian Universities | | IGEN SDG Research Survey |
| 9 | Sri.T.Suneel | Assistant Professor | Academic leadership in higher Education institution under MARGDARSHAN | 18-02-2022 | Internal Quality Assurance cell (IQAC) and Department of Business Management VRSEC |
| 10 | Sri.T.Suneel | Assistant Professor | Guidelines For Quality Publications Of Project Works | 4/2/2022 | Internal Quality Assurance Cell (IQAC) And Department Of Computer Science And Engineering, VRSEC |
| 11 | Dr.Subhojit Dawn | Assistant Professor | EV Battery Pack Sizing | 22-06-22 | Elite Techno Groups |
| 12 | Dr.K.Dhananjaya Rao | Assistant Professor | EV Battery Pack Sizing | 22-06-22 | Elite Techno Groups |
| 13 | Dr.A.Rama Devi | Professor | Research Project Proposal - Thought Process to Submission | 24-06-22 | IQAC & Dept. of CSE, VRSEC |
| 14 | Dr.K.Dhananjaya Rao | Assistant Professor | Research Project Proposal - Thought Process to Submission | 24-06-22 | IQAC & Dept. of CSE, VRSEC |
| 15 | Dr.B.Venkateswara Rao | Associate Professor | Design Thinking, Critical Thinking and Innovation Design | 2/1/2022 | Dept. of EEE,VRSEC |
| 16 | Dr.J.Ramesh | Associate Professor | Design Thinking, Critical Thinking and Innovation Design | 2/1/2022 | Dept. of EEE,VRSEC |

**FACULTY ATTENDED FDP's IN A.Y. 2021-2022**

| S.No | Name of the Faculty | Designation | Name of the FDP | Duration | Organized by |
|---|---|---|---|---|---|
| 1 | Dr.P.V.R.L.Narasimham | Professor & Head | One Week National Level Online STTP Recent Trends and Challenges in Power Market with Smart Grid Technology | 20-09-21 to 25-09-21 | AICTE & Dept. of EEE VRSEC |
| 2 | Dr.A.RamaDevi | Professor | The Joy of Computing using Python | Jan- Apr 2022 | NPTEL - AICTE |
| 3 | Dr.B.Srinivasa Rao | Professor | 25 Days Renewable energy system Master class | 17.1021 to 16.11.21 | APSSDC in association with Pantech solutions e-learning Pvt. Ltd, Chennai |
| 4 | S.V.R.Lakshmi Kumari | Associate Professor | A Two Day Workshop on Quality of Question Paper Setting and Evaluation Techniques | 20/06/22 & 21/06/22 | IQAC & Dept. of CSE, VRSEC under AICTE Margadarshan Scheme |
| 5 | Dr.G.Srinivasa Rao | Associate Professor | Fund Raising for New Business Start up | 13/09/21 to 17/09/21 | NITTTR, Chandigarh |
| 6 | Dr.B.Venkateswara Rao | Associate Professor | Recent Trends in Power Electronics, Controllers and Power Systems | 19/07/21 to 23/07//21 | GMRIT, RAJAM |
| 7 | Dr.J.Ramesh | Associate Professor | Three day Faculty Development Program (FDP) on “Power Electronics Applications to Smart grid and Electric Vehicles”, | 27/06/22 to 29/06/22 | Dept. of EEE, ANITS, Visakhapatnam |
| 8 | Dr.N.Vamsi Krishna | Sr. Assistant Professor | Industrial /Professional Training Program on Machine Learning | 19-01-22 to 27-03-22 | Labview Academy Centre of Excellence |
| 9 | P.Venkatesh | Assistant Professor | Recent Advancements in Generation and Control in Modern Power Systems | 7th - 12thMarch 2022 | jointly organized by GMRIT_EEE and VRSEC |
| 10 | Sri.S.N.V.S.K.Chaitanya | Assistant Professor | Advanced Industrial Training for Engineering Education and Research | 31-01-22 to 04-02-22 | IIIT, Trichy and Indwell Automation, Mangalore |
| 11 | Sri.T.Suneel | Assistant Professor | Electrical and Energy Studies-Basics of AC DC Drives | 27-09-21 to 4-10-21 | APSSDC |
| 12 | Sr.M.L.N.Vital | Assistant Professor | Five-Day Online Workshop on “Integration of Renewable Energy & EV to Microgrid: Prospects and Challenges | 21/02/22 to 25/02/22 | Department of Electrical and Electronics Engineering National Institute of Technology Tiruchirappalli in Association with The Hong Kong Polytechnic University |
| 13 | R.Giridhar BalaKrishna | Assistant Professor | Recent Advancements in Generation and Control in Modern Power Systems | 7th - 12thMarch 2022 | jointly organized by GMRIT_EEE and VRSEC |
| 14 | R.Madhusudhana Rao | Assistant Professor | Industrial /Professional Training Program on Machine Learning | 19/01/22 to 27/03/22 | Labview Academy Centre of Excellence |

| | | | | | |
|---|---|---|---|---|---|
| 15 | Sri.V.Hari Vamsi | Assistant Professor | Advanced Industrial Training for Engineering Education and Research | 31-01-22 to 04-02-22 | IIIT, Trichy and Indwell Automation, Mangalore |
| 16 | Dr. A.Veera Reddy | Assistant Professor | Recent Advancements in Generation and Control in Modern Power Systems | 7th - 12thMarch 2022 | jointly organized by GMRIT_EEE and VRSEC |
| 17 | Dr.P.Chandra Babu Naidu | Assistant Professor | Recent Advancements in Generation and Control in Modern Power Systems | 7th - 12thMarch 2022 | jointly organized by GMRIT_EEE and VRSEC |
| 18 | Sri.K.Saiteja | Assistant Professor | One week online FDP on "Industrial IOT: Automation, PLC's,VFD & WEBSERVER" | 20/09/21 to 24/09/21 | NSIC, Hyderabad |
| 19 | Sri.P.Sowmith | Assistant Professor | One week online FDP on "Industrial IOT: Automation, PLC's,VFD & WEBSERVER" | 20/09/21 to 24/09/21 | NSIC ,Hyderabad |
| 20 | Dr.Subhojit Dawn | Assistant Professor | “Inculcating Universal Human Values in Technical Education” | 28 June, 2021 to 2 July, | All India Council for Technical Education(AICTE) |
| 21 | V Ravindranadh Chowdary | Assistant Professor | Online Short Term Training Programme on “ Power Systems and Power Electronics for Green Energy | 13-09-2021 to 18-09-2021. | Department of EEE, Vignan’s Institute of Engineering for Women, Visakhapatnam, |
| 22 | Dr.K.Dhananjay Rao | Assistant Professor | Signals Systems and Transform Techniques | 22-11-21 to 27-11-21 | Dept. of EEE, MVSR Engineering College, Hyderabad |
| 23 | J. Vimala kumari | Assistant Professor | “Inculcating Universal Human Values in Technical Education” | 28/03/2 to 01/04/22 | AICTE |

**Annexure-V**

## Activities of students in professional bodies

| S.No | Professional Chapter | Type of Event | Resource Person | Date | Event Name | Participants | Institute International National/State |
|---|---|---|---|---|---|---|---|
| 1 | IE (I) | Conference | ***Chief Guest:*** Dr. Ch. Padmanabha Raju Professor,PVPSIT, Vijayawada | 19/05/2022 | National student conference on Emerging Technologies and their industrial application | 22 | National |
| 2 | IE(I) | Rally | Dr. Ratna Prasad Principal, VRSEC | 12/04/22 | Awareness program on energy conservation | 240 | Institute |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| **3** | **IE(I)** | Workshop | 1.Dr. K. Roshan Kumar, Subject matter expert E-power train at Microfuzzy, Germany. 2.Mr.Rajashekar, Senior design engineer, Texas instruments, Bangalore. | 06/04/22 | Electric vehicles and Integrated Cirucits | 100 | |
| **4** | **IE (I)** | Guest lecture | Mr. Ashok Reddy Pitchapati Director-Software Engineering GE Digital, USA | 15/03/22 | A guest lecture on Power Systems | 130 | Institute |
| **5** | **IE (I)** | Seminar | Mr.M.Surya Narayana, Director Software, Amazon,USA. | 25/01/2022 | A Seminar on Robotics | 200 | Institute |
| **6** | **IE(I)** | Student Competition | Dr. PVRL Narasimham HOD, EEE | 15/12/2021 | Presentation on energy conservation | 18 | Institute |
| **7** | **IE (I)** | Student Competition | ***Chief Guest:*** Dr. Ch. Padmanabha Raju Professor, PVPSIT, Vijayawada | 12/10/2021 | Poster and slogan competition on Innovative ideas | 26 | Institute |
| **8** | **SEA** | Webinar | Dr.Baruah Programme leader for MSc Engineering management-University of York | 10/02/2022 | Study in UK | 130 | Institute |
| **9** | **SEA** | Guest lecture | Dr. PERLEKAR TAMTAM Associate Professor, Wichita State University, USA | 24/12/2021 | On higher studies in USA | 110 | Institute |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| **10** | **SEA** | Group discussion | **Panel member:** Dr. A Narendra Babu Assistant Professor, EEE, VRSEC | 01/11/2021 | Technologies for electric vehicles | 18 | Institute |

**Annexure –VI**

**Cut-off rank Previousyear:2020-21 and Cut-off rank in A.Y.:2021-22**

| **EAMCET** | | | | |
|---|---|---|---|---|
| **Category** | **General** | | **Female** | |
| | 2020-21 | 2021-22 | 2020-21 | 2021-22 |
| OC | 17045 | 62628 | 15842 | - |
| BC-A | 39740 | 49358 | 41041 | - |
| BC-B | 27607 | - | 73741 | 59641 |
| BC-C | - | - | - | - |
| BC-D | 28087 | 110389 | 34183 | 38294 |
| BC-E | 68014 | 36833 | - | - |
| SC | 49058 | 96366 | 31413 | - |
| ST | 98935 | 108699 | 105044 | 130715 |
| CAP | 62265 | - | - | - |
| NCC | - | - | - | - |
| PH | - | - | - | 47858 |
| SPORTS | - | - | - | - |
| EWS | 21385 | 61740 | 22506 | 45338 |
| ECET | | | | |
| OC | 72 | 83 | 422 | 125 |
| BC-A | 230 | 333 | - | 661 |
| BC-B | 147 | - | 814 | - |
| BC-C | - | - | - | - |
| BC-D | 177 | - | - | - |
| BC-E | - | - | - | - |
| SC | 495 | 358 | 483 | - |
| ST | 210 | 1605 | - | - |

**Annexure –VII**
**2021-22 Utilization Non-Recurring**

# Expenditure on purchase of equipment- Total Rs: 19,64,198.50/-

| S.No | Nature of the equipment | Laboratory in which it is used or if a new lab is set up -details | Amount spent Rs |
|---|---|---|---|
| 1. | 1.LCR Meter<br>(Handheld Component Tester)<br>Make: Am Probe<br>(A Fluke Company)<br>Model No: LCR55A<br>2.LVDT TRAINER<br>STRAIN GAUGE TRAINER WITH<br>3.CANTILEVER BEAM<br>4.LCR METER<br>5.Analogue discovery kit-2<br>Temperature measurement trainer<br>(using Thermistor)<br>6.Temperature measurement trainer (LM-35)<br>7.Speed measurement using magnetic sensor<br>8.Piezoelectric trainer module to study impact of force<br>9.characteristics of Hall effect sensor<br>displacement measurement using inductive pick up | Electrical Measurements lab | 2,26,205.50/- |
| 2. | 1)Various types of Meter and Electromagnetic relays<br>2) UPF Watt meters | Power Systems Lab(UG) | 47,201/- |
| 3. | Digital HV AC Peak Voltmeter | High Voltage Engineering Lab | 68,440.00/- |
| 4. | 1) 1) 1 HP / 230 V / PMSM Motor with BDA (HSN code 8501)<br>2) 1 HP / 200 V / BLDC Motor with BDA (HSN code 8501)<br>3) Controls for above Two Motor with FPGA & IGBT modules (HSN code 8537<br>4) 1 HP /SRM Motor with BDA with IGBT Module ( FPGA of item 3 will be common for SRM) (HSN code 8537) | Electrical Machines Lab | 9,52,189/- |
| 5. | printer | Computer lab (UG) | 20,000/- |
| 6. | 1)Various types of Meter and Electromagnetic relays<br>2) UPF Watt meters | Power Systems Lab(PG) | 47,201/- |
| 7. | Mi power software renewal | Computer Lab(PG) | 70,000/- |
| 8. | Different types of electronic components | Project room | 2,0,2173/- |
| 9. | LAN Wiring<br>LCD Projector<br>Air conditioners(2)<br>UPS | Computer center -3 | 4,47,990/- |

**Annexure –VIII**

## Higher Studies

Academic Year 2021-22

| S.No | Roll No | Name of the Student | Higher Study Program Name | Admission Details (Name of the Institution/University) | Place |
|---|---|---|---|---|---|
| 1 | 188W1A0261 | M.Anudeep | MS | Hult International Business School, Boston | US |
| 2 | 188W1A0258 | K.Vivek Chowdary | MS | University of central Missouri, Missouri | US |
| 3 | 188W1A0241 | P.Mahitha | MS | Northest Missouri State University, Missouri | US |
| 4 | 188W1A0242 | R.Rajitha | MS | Indiana University, Indianapolis | US |
| 5 | 188W1A0288 | K.Vidhya Nandini | MS | Northern Arizona University, Arizona | US |
| 6 | 188W1A0229 | J.RajMarey | MSc Data Science | Cardiff Metropolitan Unversity | UK |
| 7 | 188W1A0245 | M.Vara Prasad | MSc Data Science | Cardiff Metropolitan Unversity | UK |
| 8 | 188W1A02A5 | P.Lohith Chowdary | MS | Webster University | US |
| 9 | 188W1A0279 | I Lakshya Rani | M.Tech | NIT, AP | India |
| 10 | 188W1A0244 | R.S.Vineel Kumar | MS | Hult International Business School, Boston | US |