

**INTERNAL QUALITY ASSURANCE CELL (IQAC)**  
**VRSIDDHARTHA ENGINEERING COLLEGE**

**ACADEMIC AUDIT**  
**Evaluation Sheet**

(with effect from 2020-21)

Department Name : ELECTRICAL & ELECTRONICS ENGINEERING

Programme Name : B.Tech

Academic Year : 2020-21

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

<b>I. POs, PSOs and Curriculum</b>		
<b>S. No</b>	<b>S Criteria</b>	<b>Observations</b>
1.	POs & PSOs attainment along with sample calculation sheet	PO attainment for 2016-20 batch available (VR14 Regulation)
2.	Stakeholders feedback collected, analyzed & action taken related to curriculum design (with evidences)	Consolidated Stake holders feedback ( Faculty, student, Parents, and Alumni inputs) is available. -More industry oriented courses -More Elective courses 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). The inputs are reviewed and forwarded to concern course coordinators through module coordinators. Suggestions & recommendations given by DAB & BOS members are considered and implement for Curriculum revision.
4.	-New courses introduced -Courses upgraded with more than 25% of course content	<ul style="list-style-type: none"> <li>• Engineering Workshop (20ES1153)</li> <li>• Python Programming (20ES2103B)</li> <li>• In Power System Analysis course (17EE3701) theoretical concepts are verified through MATLAB programming/simulation.</li> </ul>
5.	Lab component - New labs added -No. of new experiments introduced -New Hardware/Software developed	<b>New labs added :</b> Python programming (20ES2152B) <b>No. of new experiments introduced:</b> 1. New experiments (Part-B) are introduced in Power systems lab (17EE4751). (Refer Annexure-I) 2. New experiment is introduced in Simulation of Electrical Systems lab (17EE4752). (Refer Annexure-I)
6.	No & %age of courses focusing on employability/ entrepreneurship/ skill development.	Employability: 02, Entrepreneurship: 01 Skill development: 10
7.	No of students undertaken -full time field projects: -full time internships:	Full time field projects: 6 students (Dr. PCBN-4, Dr. BVR-2) Full time internships: 2 students (6 months), 84 students (1 month)

II.Faculty information and their contribution		
S. No	Criterion	Observations
1.	Teacher-student ratio	15.46:1
2.	Faculty-Cadre ratio	4:4:22
3	Faculty experience & retention	More than 3 years: 22 members More than one year but Less than 3 years: 8
4.	Faculty qualifications: Percentage of existing faculty with PhD Faculty awarded with PhD: Faculty submitted their PhD: Faculty pursuing PhD: Faculty registered for PhD:	50% (15/30) 1 (Dr.A.Veera reddy) NIL 9 3 (T.Suneel, R.Madhusudhana Rao and R.Giridhar Balakrishna)
5.	Faculty with Post-Doctoral Fellowship or Pursuing it:	01 (Dr.Zameer Ahmad) pursuing
6	Faculty guiding/guided PhDs:	8 faculty members guiding
7.	Percentage of faculty contributing in ... .....research publications: .....books: .....chapters:	Research publications: 20/26=76.92% Books: 0 Chapters: 3/26=12%
8.	e-Content development / Lectures added to Web-resources	Lecturer notes ,ppts ,Question banks, Tutorial sheets uploaded in LMS unit wise.
9.	Faculty <b>contribution</b> in professional organizations/ Reviewer /Editorial boards: <i>(not mere memberships)</i>	1.Dr.B.Venkateswara Rao, Editorial board member in MAT journal, International Journal of Advanced Electrical Technology and Research. 2. Dr Subhajit Dawn, Editorial board member in Journal of Electrical Engineering and Technology, American journal of power & energy systems, SCIREA journal of electrical engineering ,International journal of energy policy and management and MAT journal. 3.Dr.G.Srinivasa Rao, Reviewer in Journal of the Institution of Engineers Springer Series B, 20 July, 2021, IEIB-D-21-00138R3 4.Dr B.Srinivasa Rao, Reviewer in IJEPES, applied soft computing energy Conservation and Management IETE journal of research.
10.	Academic Awards/Rewards received:	1.Dr. Subhojit Dawn-Best Associate Editor Award - Journal of Electrical Engineering & Technology, Springer, December 2020 <b>Rewards and recognitions of faculty:</b> Dr.B.Srinivasa Rao-Elevated to the senior member of IEEE

11.	Faculty contribution in Industry/ Institute collaborative projects	2 student projects guided (DrPCBN-1,Dr.BVR-1)
12.	Faculty trained in Industry	Dr.A.Veera Reddy got trained on Power quality & Energy auditing and Energy storage at the national Small scale Industries corporation Ltd, Hyderabad
13	Faculty contribution in obtaining internships/ Placements / MoUs	Internships :NIL Placements:3 (Dr.PVRLN, Eruvaka Technologies Pvt.Ltd), MOUs: NIL
14	Facultyasresourcepersons in webinars/ workshops/ key note speaker /trainingactivities	1.Dr.P.Chandra Babu Naidu acted as Session chair for session of PEC 24 at IEEE ECCE-ASIA 2021,Singapore. 2. Dr.P.Chandra Babu Naidu acted as Session chair for session of EAPE 3 at IEEE ECCE-ASIA 2021,Singapore. 3.Dr.Subhojit Dawn acted as key note speaker for “Renewable Energy Integration in Deregulated Power System”. 4. Dr.Subhojit Dawn acted as key note speaker for “Modern Power Plant Technologies: Policies, Industrial Practices and Sustainability”. 5. Dr.Subhojit Dawn acted as key note speaker for “Generation and load Balance for Integration of renewable Energy into grid”.
15	Nationallevel eventsorganized -Conferences: -Workshops/Seminars: - Webinars -FDPs: Internationallevel eventsorganized -Conferences - Webinars -Workshops/Seminars	NIL 8 1 2 1
16	List of conferences/seminars/webinars/ workshops/FDPsattended for the enrichment of teaching – learning process	Conferences:26 Seminars/Webinars:31 Workshops:15 FDPs:45 Coursera:3
17	Faculty interaction with outside world (BOS/NBA/Examiner for PhD evaluation / selection committee /Academic auditing/ Chairperson /Chief guest/etc.)	Dr PV R L Narasimham 1.BOS member in Dept. of EEE, Krishna University, Machilipatanam 2.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):	1. The first step in getting good attendance and marks of students is to communicate with parents as well students in the beginning of semester itself regarding minimum attendance and marks required for attending end semester examination and its importance by conducting a parent's meet. 2. The students attendance and marks will be monitored by their respective counselors and students who got less than 65% attendance and 50% marks will be intimated to parents for corrective steps to be taken. Detention: 3 <sup>rd</sup> sem:det:---- 1      8 <sup>th</sup> sem : det-----0 5 <sup>th</sup> sem:det:---- 0 7 <sup>th</sup> sem:det:---- 1
2.	Mechanism and activities for slow learners: Outcome:	1. Remedial classes are conducted for the students who got less than 50% marks in internal assessment (of A-I& II and S-I).  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.  <b>Outcome:</b> The performance of some of the slow learners have been improved in continuous assessments and end semester examination.
3	Mechanism and activities for Fast learners to excel: 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 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 <b>Outcome:</b> 1. UG students have made 9 publications. 2. Few students were placed in core industry based on the skills acquired by them during the training programs. 3. Some of the students made full time project work at industry as they completed the final year courses in advance by availing CBCS.

4	Bridge courses: Value added courses:	Conducting Bridge course for lateral entry students in Mathematics Course(17MA1301)
5	Quality circles and Practice: Outcome:	Quality circles are conducted for course EM-I in A.Y 2020-21. <b>Outcome:</b> The performance of some of the slow learners have been improved in continuous assessments and end semester examination.
6.	Student counseling/mentoring Mechanism	1. Maintaining Proctor Dairy. 2. For every 18-20 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. <b>In A.Y. 2020-21</b> 1. 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 2. Student group mail is created for circulating the information and placing e-content.
7.	Initiatives taken for innovative mini and major projects - Training for students & faculty	<ul style="list-style-type: none"> <li>Conducted workshops and guest lecturers from industry experts on Latest technologies.</li> <li>Students carried out projects in industries.</li> <li>Students are motivated to publish their projects in reputed Journals and Conferences.</li> </ul>
8.	Best student projects with awards	Best student Projects: 1. Improved Cascaded Multilevel Inverter Topology with Reduced number of switches and THD 2. Piezoelectric Power Generation in Automotive Types 3. Biometric based electronic voting machine
9	Student Model developments: Awards:	Student Model developments: Various working models are developed through mini Project Awards: NIL
10	Student Innovation details: Awards:	Innovation day on 15-10-2020. Awards: First and Second prizes secured by III/IV B.Tech students (IOT based robotic arm, Smart water dispenser)
11	Student Publications (other than IV.1) -UG: -PG:	UG students: 9 PG students: 6
12	Monitoring of teaching-learning process -- Mechanism for Assessment of teaching process in classrooms. -- Random verification of evaluated answer papers and question paper during the semester.	1. Assessment of teaching process in classrooms is monitored by Head of the Department. 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 followed Blooms taxonomy as well as cognitive level but

	--Innovative teaching methods presented, if any --Verification of course files	verification have not been conducted due to covid-19 pandemic situation in A.Y 2020-21. 3. The innovative teaching methods presented are lab taken to class (LTC). 4. Yes. All the course files have been verified by both Programme coordinator and H.O.D.
13	Student enrolment in CBCS	Solar Photovoltaic (17EE4801A)-45 Students.
14	EPICS (Engineering projects in community service) Projects: Awards:	Projects:34 Awards:NIL
15	Activities of students in professional bodies: Awards in co-curricular activities:	Four guest lectures ( SEA &IE) are conducted. 1. A guest Lecture on “Energy Auditing and its implementation” 2. A guest lecture on "Industrial Control Applications" 3. A guest lecture on “Know your electrical appliances - Bridging the gap between theory and practice”. 4. A guest lecture on “Industrial Electrification & Career Options in Electrical Engineering”. <ul style="list-style-type: none"> <li>129 students participated in various events conducted by premier institutions</li> <li><b>No. of Awards:09</b>, from premier institutions like <b>IIT- Bhubaneswar, IIT- Bombay and NIT-Jalandhar</b> achieved prizes in technical events.</li> <li></li> </ul>
16	Training programs/Seminars/workshops organized for students:	08 1. One week workshop on “Introduction to PLECS tool for Power Electronic Applications” 2. Webinar on “Modern Teaching Methods” by Dr.P.Roshan Kumar, Subject matter expert, Micro-Fuzzy, Germany. 3. short term training program (STTP) on “ Recent Trends and Challenges in Power market with Smart Grid Technologies” (Phase – I) 4. One week National Level Online short term training program (STTP) on “ Recent Trends and Challenges in Power market with Smart Grid Technologies” (Phase – II) 5. one day seminar on "How to motivate the faculty in guiding the quality projects" & "How to convert ideas into a viable product?"(under AICTE Margadarshan Scheme) 6. One Day Seminar on “Industry Electrical Safety and Arch flash” 7. One Day Seminar on Orientation on Fire Services and Electrical Safety 8. International Conference on “Smart and Intelligent System 2021” (SIS-2021)

17.	Guest lecturers conducted for Students:	Four guest lectures (SEA & IE) are conducted. 1. A guest Lecture on “Energy Auditing and its implementation” 2. A guest lecture on "Industrial Control Applications" 3. A guest lecture on “Know your electrical appliances - Bridging the gap between theory and practice”. 4. A guest lecture on “Industrial Electrification & Career Options in Electrical Engineering”.
18.	MoUs with Industries for Research / Consultancy/ internship / placements, etc.	Existing: 11, Newly added: 0, Total:11.
19.	Students feedback	<ul style="list-style-type: none"> <li>The feedback collected twice in every semester at the beginning of Semester and at the end of semester from students on faculty teaching performance</li> <li>Course end survey collected at the end of semester for each course.</li> </ul> <p>Student exit survey collected every year from the students of outgoing batch on the entire program.</p>
20.	Feedback follow-up action	Yes. Appreciation letters will be given for good faculty and information given to the faculty who got less feedback for corrective action.
21.	Scope for Self-learning: -Certificate courses-Online courses	Course era  NPTEL Total no. of students:382
22.	Cut-off rank(Admission): Cut-off rank Previous year:..... OC: BC: SC: ST: PH: Audited year: ..... OC: BC: SC: ST: PH: Improvement / no change / decline  <i>Note: If there is <b>no improvement</b> it needs to be discussed &amp; suitable measures are to be taken up.</i>	Refer Annexure-II          There is a lot of improvement in cut off Rank for the academic Year 2020 -2021, compared with the Academic Year 2019 – 2020.
23	<b>Range of CGPA &amp; % of students</b> 10-8 CGPA: 7CGPA: 6CGPA: 5CGPA: No. & % age of failures: Success rate as per NBA guidelines:	Performance of students in Marks of Batch wise of 2017-2021 10-8 CGPA:61 (First class with distinction) 7CGPA:49 (First class) 6CGPA:1 (Second class) 5CGPA:-- No. & % age of failures: 15/126=11.9% <b>Success rate as per NBA guidelines:</b>

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: 05 SCI / SCIE (Not ESCI): 08 Without Indexing: 1 Total: 14 h-index: Dept & Highest in the faculty: Dept.: 73 Highest in the faculty: Dr. M.S.K. Rayalu, Dr. B. Venkateswara Rao: 8
2.	Publications in conferences: - National (Scopus, SCI & equivalent) - International (Scopus, SCI equivalent) - Total:	National (Scopus, SCI & equivalent): 0 International (Scopus, SCI equivalent): 12 Total = 12
3.	Faculty contribution in: ..... books: ..... book chapters: (Books/Chapters with ISBN/ISSN only are considered)	Books: 0 Book chapters: 04
4.	Paper Publications & Book chapters:	Q1: 1, Q2: 6, Q3: 3, Q4: 2 Total: 12 Book chapters: 04
5.	Government: Funded R&D projects	Applied: 0, Total Amount: 0. Ongoing: 0, Total Amount: 0 Completed: 0, Total Amount: 0
6.	Non-Government: Funded R&D projects / Industry sponsored projects	Applied: 0, Total Amount: 0, Ongoing: 0, Total Amount: 0 Completed: 1, Total Amount: Rs. 17700/-
7.	Faculty involved Consultancy & amount earned	NIL
8.	Faculty intellectual property rights / Patents:	Filed: 3, Published: 2, Granted: 0
9.	In-house R&D grants & projects and Their outcomes	1. Management sanctioned an amount of Rs 1.5 lakhs for this year to develop model projects in Project room. 2. 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 i. Digital panel meters which have been developed and installed in machines laboratory of the department. ii. Solar laptop charger iii. IOT projects iv. Design of multifunction meter is in progress (PCB design Completed) by utilizing same amount for the A.Y 2020-21.



10.	Newresearchfacilities/laboratory Facilitiesadded	Yes Research facilities- DSO added 1. Tektronix mixed domain oscilloscope MDO3034 – 1 No 2. Tektronix current probe – 1 No Laboratory facilities : Digital Controllers Lab.
11.	MOU'swithindustries/R&D/Premier Institutes Details of activities:	NIL
12.	Research centersofexcellence established: Outcomeinresearch centers:	NIL
13	Skill development centers established:outcome:	Yes APSSDC -01 SEIMENS Lab:04 labs relate to EEE <b>Outcome:</b> Lab experiments was done by students
14	Incubation centers: - Established with outside Industries : -Status of incubation:	Status of incubation: The dept. has developed many working models. One such model is sanitizer which is placed in the campus at 11 places.
15	Start-ups & Entrepreneurships: No of Start-ups & status: Awards from outside platforms:	NIL

## V.InfrastructureandLearningResources

S. No	Criterion	Observations
1.	Addition of infrastructural facilities toimprove the teaching learning processClassrooms / Laboratories /ICT class rooms / e- class rooms/ Seminarhalls / Syndicaterooms /Innovation center:	Establishment of Lab taken to class
2.	Internetfacilitiesforfaculty&Students:	NETTLINX:160Mbps,Reliance Jio:300Mbps,BSNL:30Mbps Total Internet bandwidth:490Mbps
3.	Technicalmanpowersupport added:	NIL
4.	Modern/newequipmentaddedin Laboratories:	<b>Electrical Measurements:</b> 1. Anderson bridge trainer- 1No 2. Schering Bridge – 1No 3. Kelvin double bridge trainer – 1No 4. Variable DC power supply – 2Nos <b>Electronics Lab:</b> 1.Fluke 17B+ Digital multi meters – 4 Nos <b>Power Systems (UG+PG):</b> 1. Digital true RMS Multimeters (Fluke 17B+) – 2 Nos 2. GSAS Regulated DC power supply (Digital) 0-30V/6A – 2 Nos 3. Digital LUX meter (Peaktech P5065) – 1 No

5.	New research facility /Computing facilities/ laboratory added:	Research facility added: DSO Computing facilities: 05(CS lab)
6.	Dept. Newsletter/magazine:	Annually, Available for A.Y. 2020-21
7.	Department library: New additions Text books / References / Journals	Text Books .References:18 Magazines:3, Journals: NIL

#### VI. Student information, Support and Progression

S. No	Criterion	Observations
1	Industrial visits	NIL (Due to Covid)
2	Internships	84 students completed the internships in various companies
3	Dept. student clubs: Activities:	NIL
4	Details of coaching provided for GATE/GRE/any other competitive exams	Under PRERANA scheme providing coaching for GATE students at institute level
6	Students qualified in -GATE -GRE/etc.	Total 7 students qualified GATE GRE: NIL
7	Students admitted for Higher studies (No & %):	NIL
8	Total Placements (No & %) in the Dept: 2 - 4 Lakhs (No.): 4 Lakhs above (No.): 5 Lakhs above (No.): Highest salary (No.): Median salary:	No. of Eligible students: 100 Placed: 78 Placement % = 78% 86 26 1 6.5 Lakhs 4.5 lakhs
9	Student prizes:	NSS/NCC...0.....Cultural...0 ... Sports.....0.....  National Level, if any...6.....
10	Student Scholarships:	Siddhartha Sahaya (No.: 09)

#### VII. Governance, Leadership and Management

S. No	Criterion	Observations
1	Setting of annual goals by individual faculty for their academic improvement.	Staff goals are consolidated and given in the department goals
2	Setting of departmental annual goals by HOD for the improvement of dept.	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 etc.
3	Teaching staff attended for skill development/ Industry training/any professional development programs	Workshops:15 FDPs:45 Courseera:3
4	Non-teaching staff attended for skill development programs	8-Non teaching staff attended skill development program for technicians on UPS maintenance
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.7 Lakhs Incentive for Sponsored projects:Nil Incentive for paper publications:Rs.75920/- (Attended FDPs/Seminars/R & D interactions through online)
6	Financial support received from the Management: Student Projects: Model developments& exhibition: Student Innovations& exhibition:	1.Management sanctioned an amount of Rs 1.5 lakhs for this year to develop model projects in Project room. 2. 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 i.Digital panel meters which have been developed and installed in machines laboratory of the department. ii .Solar laptop charger iii. IOT projects iv. Design of multifunction meter is in progress(PCB design Completed) by utilizing same amount for the A.Y 2020-21.
7	Quality policy&Quality objectives Committees&duties: Cells&duties:	<b>Quality Policy:</b> 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 <b>Quality objectives:</b> 1.Conduction of conference in a year 2.Establishment of smart rooms 3.Conduction of at least 8 guest lecturers in a year 4.Conduction of two workshops in a year 5.To improve results in each subject. Target value is 90%. <b>Committees:</b> 1.Program Assessment Committee 2.Department Advisory Committee 3.Board of Studies Committee 4.Module coordinator committee 5.Course coordinator committee
8	Maintenance -General -Laboratory -Others	Available
9	Financial support/leaves for qualification/skillup-gradation:	1.An amount of Rs75,920/- was received by faculty as an incentives towards paper publication in reputed journals and conferences. 2.Study leave for P.hD a)T.Ajay Kumar

		b)G.Venkateswarlu 2.Study leave for post Doc. a)Dr.Zameer Ahmad
10.	Riskevaluation/safetymeasures:	First aid kit, Fire extinguisher, Electrical safety mats

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**Dept.IQACIn-charge**

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**AcademicAuditor**

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**Head of the Dept.**

## **Academic Audit Report (Consolidated)**

1. **Name of Department:** Electrical and Electronics Engineering..... Year..... 2020-21.....
2. **No. of full time permanent faculty:** ...30.....
3. **No. of Visiting/Adjunct faculty:** ...2.../.....
4. **No. of PG/UG courses:** ...1...../...1.....
5. **Curriculum Revisions Information:** UG & PG... UG: VR20, PG: M.Tech19.....  
.....  
Major changes... Introducing minor program and Honor program in VR20.....  
New courses: Engineering Workshop (20ES1153), Python Programming (20ES2103B) In Power System Analysis course (17EE3701) theoretical concepts are verified through MATLAB programming/simulation.  
Modified courses (min 20-25% change)..... 11.....  
Employable courses: 2
6. **Research:** Ph.D. Theses submitted: ...0..... awarded: ...1.....  
Faculty guiding / guided Ph.Ds: ..... 7...../.....  
Publications in Jrs: SCI/SCIE... 8 ..... Scopus..... 5..... Total..... 13.  
Publications in Conferences: SCI/SCIE 0 ..... Scopus... 12..... Total... 12.....  
Student Publications  
-UG: SCI/SCIE: ... 0..... Scopus: ... 9..... WoS: ... 0..... Others: ... 0..... Total... 9.....  
-PG: SCI/SCIE: ... 0 Scopus: ..... 5..... WoS: ... 0..... Others: ..... 1.. Total... 6.....  
Dept H-index (Scopus data base): ... 73..... Highest H-Index of faculty: ..... 8.....  
Publications: Q1..... 1..., Q2... 6....., Q3..... 3....., Q4... 2..... Total... 12.....
7. **Sponsored projects:** Amount: ... Rs. 17700/-  
..... Applied... 0....., Ongoing..... 0....., completed..... 1...
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. One such model is sanitizer which is placed in the campus at 11 places.....
11. **Patents:** Filled: ..... 3..... Published: ..... 2..... Granted: ..... 0.....
12. **Innovations:** ... 0..., Awards from outside platforms (reputed Institutions only) :.....
13. **Books / Book chapters** (with ISBN/ISSN only are considered): ..... 04.....
14. **e-Content developed:** Lectures added to Web-resources: 100% in LMS.....
15. **Placements:** No: ..... 78..., Percentage: 78....., Median salary: 4.5 Lakhs....., Highest salary: ... 6.5 lakhs.....
16. **Higher Education:** GATE No... 7., GRE No 0....., Others (specify): 0... %:.....
17. **New Equipment and Infrastructure added:** ... Refer Annexure-III..... (Name & amount)

18. **Student feedback** on Curriculum, infrastructure and facilities: Yes or No ---- YES

19. **Strengths:**

(1)

(2)

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

(1)

(2)

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

(1)

(2)

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

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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

### Power systems lab(17EE4751)

1. Study of Buchholz relay, thermo-magnetic over current relay operated air circuit breaker
2. Study of basic LV switch gear (MCB, MPCB, Contactor)
3. Realization of DOL starter using relays
4. Soft starter for motor start and stop using relays
5. Assembly of Air Circuit Breaker (ACB)
6. Remote Control of Air Circuit Breaker

### Simulation of Electrical Systems lab(17EE4752)

1. Modeling of over current relay

## Annexure-II

**Cut-off rank Previous year:2019-20 and Cut-off rank in A.Y.:2020-21**

**Audited year: 2019-20**

EAMCET				
Category	General		Female	
	2019-20	2020-21	2019-20	2020-21
OC	20043	17045	24932	15842
BC-A	36522	39740	57987	41041
BC-B	43157	27607	53435	73741
BC-C	30195	----	45968	----
BC-D	22738	28087	95940	34183
BC-E	52481	68014	51245	54417
SC	112384	49058	96994	31413
ST	127962	98935	123927	105044
CAP	19336	62265	15932	----
NCC	----	27725	67370	----
PH	22792	40154	25113	21891
EWS	17287	21385	33900	22506
ECET				
OC	1760	72	----	422
BC-A	1339	230	----	----
BC-B	1624	147	----	814
BC-D	----	177	----	----
BC-E	----	----	----	----
SC	960	495	----	483
ST	----	210	----	----

### Annexure –III 2020-21 Utilization Non Recurring

S.No	Name of the Laboratory	Amount Proposed	Amount utilized	Equipment Procured
1.	Electrical Measurements	75,000	32,579.80	1. Anderson bridge trainer- 1No 2. Schering Bridge – 1No 3. Kelvin double bridge trainer – 1No 4. Variable DC power supply – 2Nos
2.	Control Systems & Microprocessors	Nil	-	
3.	Electrical Machines	3,20,000	Nil	
4.	UG Computer Center	70,000	Nil	
5.	Electronics Lab	35,000	33,040	1. Fluke 17B+ Digital multi meters – 4 Nos
6.	Dept. Exam Section	Nil	-	
7.	Dept. Library	Nil	-	
8.	Dept. Office	Nil	-	
9.	High Voltage	Nil	-	
10.	Electrical Technology	Nil	-	
11.	Power Electronics	Nil	-	
12.	Power Systems (UG+PG)	65,000	42,952	1. Digital true RMS Multimeters (Fluke 17B+) – 2 Nos 2. GSAS Regulated DC power supply (Digital) 0-30V/6A – 2 Nos 3. Digital LUX meter (Peaktech P5065) – 1 No
13.	Projects Room	45,000	Nil	
14.	PG Computer lab	80,000	Nil	
15.	R & D	9,00,000	6,85,414.80	1. Tektronix mixed domain oscilloscope MDO3034 – 1 No 2. Tektronix current probe – 1 No
Total		15,90,000	7,93,987	