



# AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY

(Approved by A.I.C.T.E., New Delhi, & Permanently Affiliated to J.N.T.U.K., Kakinada)

NAAC "B++" Accredited Institute

Cherukupally (Village), Near Tagarapuvulasa Bridge, Bhogapuram (Mandal), Vizianagaram -531162.

www.aietta.ac.in, principal@aietta.ac.in

## 6.5.2 Quality assurance initiatives of the institution include.

1. Regular meeting of Internal Quality Assurance Cell (IQAC): quality improvement initiatives identified and implemented.
2. Academic and Administrative Audit (AAA) AND follow-up action taken.
3. Collaborative quality initiatives with other institution(s).
4. Participation in NIRF and other recognized rankings.
5. Any other quality audit/accreditation recognized by state, national or international agencies such as NAAC, NBA etc.

## 2. Academic and Administrative Audit (AAA) AND follow-up action taken: 2019-2020

### Table of Contents

S.No.	Description	Page No.
<b>A.Y 2019-2020 (Semester-II)</b>		
1	Overall Action Taken Report on Department wise Academic and Administrative audit for Semester-II in the Academic year 2019-2020	3-11
2	IQAC circular for Department wise audit for Semester-II in the academic year 2019-2020	12-13
3	Academic Audit Report for the Department of Computer Science and Engineering(CSE) for Semester-II in the Academic year 2019-2020	14-22
4	Academic Audit Report for the Department of Electrical and Electronics Engineering(EEE) for Semester-II in the Academic year 2019-2020	23-29
5	Academic Audit Report for the Department of Electronics and Communication Engineering (ECE) for Semester-II in the Academic year 2019-2020	30-37
6	Academic Audit Report for the Department of Mechanical Engineering (MECH) for Semester-II in the Academic year 2019-2020	38-47
7	Academic Audit Report for the Department of Civil Engineering(CIVIL) for Semester-II in the Academic year 2019-2020	48-53
8	Academic Audit Report for the Department of Basic Sciences and Humanities (BS&H) for Semester-II in the Academic year 2019-2020	54-60
9	Academic Audit Report for the Department of Management Studies (MBA) for Semester-II in the Academic year 2019-2020	61-68
<b>A.Y 2019-2020 (Semester-I)</b>		
10	Overall Action Taken Report on Department wise Academic and Administrative audit for Semester-I in the Academic year 2019-2020	69-77
11	IQAC circular for Department wise audit for Semester-I in the academic year 2019-2020	78-79
12	Academic Audit Report for the Department of Computer Science and	80-87



# AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY

(Approved by A.I.C.T.E., New Delhi, & Permanently Affiliated to J.N.T.U.K., Kakinada)

NAAC "B++" Accredited Institute

Cherukupally (Village), Near Tagarapuvulasa Bridge, Bhogapuram (Mandal), Vizianagaram -531162.

[www.aietta.ac.in](http://www.aietta.ac.in), [principal@aietta.ac.in](mailto:principal@aietta.ac.in)

	Engineering(CSE) for Semester-I in the Academic year 2019-2020	
13	Academic Audit Report for the Department of Electrical and Electronics Engineering(EEE) for Semester-I in the Academic year 2019-2020	89-95
14	Academic Audit Report for the Department of Electronics and Communication Engineering (ECE) for Semester-I in the Academic year 2019-2020	96-103
15	Academic Audit Report for the Department of Mechanical Engineering (MECH) for Semester-I in the Academic year 2019-2020	104-112
16	Academic Audit Report for the Department of Civil Engineering(CIVIL) for Semester-I in the Academic year 2019-2020	113-120
17	Academic Audit Report for the Department of Basic Sciences and Humanities (BS&H) for Semester-I in the Academic year 2019-2020	121-128
18	Academic Audit Report for the Department of Management Studies (MBA) for Semester-I in the Academic year 2019-2020	129-136



# AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY

(Approved by A.I.C.T.E., New Delhi, & Permanently Affiliated to J.N.T.U.K., Kakinada)

NAAC B++ Accredited Institute

Cherukupally (Village), Near Tagarapuvalasa Bridge, Vizianagaram -531162.

www.aietta.ac.in, principal@aietta.ac.in

## Over All Action Taken Report on Department wise Academic and Administrative Audit for Semester–II in the academic year 2019-2020

As per the IQAC decision, Dr. Gandhi Satyanarayana, issued a circular on 10-8-2020 and allocated responsibilities department wise to the below mentioned audit members. The auditors carried out the audit works successfully with the support of head's of departments and submitted the report to the IQAC Co-ordinator. Based on the reports issued by the auditors, the IQAC Co-ordinator Developed an over all action taken report and submitted it to the principal.

S.NO.	NAME OF THE DEPARTMENT	AUDIT MEMBERS
1	Computer science and engineering	SEM–II Dr. R. Swapana Mrs. K. Syamala
2	Electronics And communication engineering	SEM–II Dr. R. Swapana Mr. A. Vasudeva Rao
3	Electrical and electronics engineering	SEM–II Dr.A.Chandrasekhar Mr.J. R. G.Patnaik
4	Mechanical engineering	SEM –II Dr.R.Swapana Mrs.K.Praveena
5	Civil engineering	SEM –II Dr.R.Swapana Mrs. K.Syamala.
6	Master of business administration	SEM-II Mr. V.SivaBhaskaraRao Dr. U. Ramu
7	Basic Science And Humanities	SEM–II Dr.A.Chanrasekhar Mr.Sk.H.Sharief

### CO POs curriculum

#### 1. COs and POs attainment:

- The COs and POs attainment as per the procedure established by observing, R16, R19 regulations.
- As per the observation of the Audit committee, it is suggested to CSE department to regularly conduct academic activities to strengthen PO 11 and the remaining POs and PSO s have attained the target .



# AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY

(Approved by A.I.C.T.E., New Delhi, & Permanently Affiliated to J.N.T.U.K., Kakinada)

NAAC B++ Accredited Institute

Cherukupally (Village), Near Tagarapuvalasa Bridge, Vizianagaram -531162.

www.aietta.ac.in, [principal@aietta.ac.in](mailto:principal@aietta.ac.in)

---

- In the same way, suggestions are given to EEE department to strengthen PO2. The students should be given more tutorials and assignments. Remedial classes should be conducted to them and they should be given more exposure to problem solving tasks.
- Suggestions have been made to the Mechanical Department to strengthen PO 5- more number of classes/ laboratory sessions are to be conducted to sharpen the programming skills of students and encourage them to do project works by using modern tools.
- It is suggested by the audit committee to the ECE Department to strengthen PO8 by conducting special academic sessions.
- The PO 3 and PO5 attainment of the MBA Department is to be improved by organizing lectures and classes by experts as per the suggestions of the audit committee.

## 2. Stakeholder's feedback related to curriculum design:

- The audit committee has suggested Maximizing the exposure of CSE students to new technologies based on the feedback of Alumni. The committee has further suggested that students should develop their communication skills to face the competition and be educated about sustainability.
- The audit committee has suggested ECE students should develop their awareness on using research methods to interpret the data in developing micro-computer and IOT devices.
- The audit committee has suggested that Civil students need be trained on how to use research based knowledge in their domain.

The audit committee has come up with the suggestion to provide more exposure to industry needs and latest technologies for the Management students through value-added courses.

## 3. Action taken on Minutes of Meeting:

- Audit members were suggested to discuss some points and those points are to be implemented with its evidences for incorporate curriculum changes and advised to take required action.
- For CSE department I sem, PAC group is not implemented in full pledged manner, in some issues like Activates leading to Quality improvement. so advised to implement in full pledged way and also, we found some lag of Add-on Courses, Course file Verification.
- For ECE, EEE department, it is observed that some prospectus are not implemented, so suggested to improve Faculty Research and publications and participations in FDPs, seminars, workshops etc.



# AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY

(Approved by A.I.C.T.E., New Delhi, & Permanently Affiliated to J.N.T.U.K., Kakinada)

NAAC B++ Accredited Institute

Cherukupally (Village), Near Tagarapuvalasa Bridge, Vizianagaram -531162.

www.aietta.ac.in, [principal@aietta.ac.in](mailto:principal@aietta.ac.in)

## 4. Academic Flexibility:

It is observed that there should be more academic flexibility for R16 final years, and for R19 1<sup>st</sup>, 2<sup>nd</sup> and 3<sup>rd</sup> years. The students should be given enough choice to choose elective subjects. The department has to allot faculty members to teach the electives. The electives should enable the promotion of advanced learning.

## II. Faculty information and their contribution:

As per department level, we are audit committee, audited department level of faculty details and we observed the following details:

1. **Faculty experience and retention:** The eligible faculties with their deserved qualifications by different cadres of Assistant, Associate, and Professor Levels are appointed and further suggested to initiate the research works by registering Ph.D. in all the departments, to follow the regulations needed for student, teacher ratio.

- **CSE department:** Faculty Availability: 29 Requirement: 0
- **ECE department:** Faculty Availability: 32 Requirement: 0
- **Mech department:** Faculty Availability: 31 Requirement: 0
- **EEE department:** Faculty Availability: 17 Requirement: 0
- **CIVIL department:** Faculty Availability :10 Requirement: 0
- **BS&H department:** Faculty Availability: 26 Requirement: 2
- **MBA department:** Faculty Availability: 13 Requirement: 0

**Action taken:** It is found that BS& H ,is lag of faculty of at least 2 members, so action plan is taken to recruit new faculty for next academic year, but the remaining departments have sufficient faculty, IQAC committee suggested to all the departments to enroll in research work for further improvement of higher degree.

2. **Faculty contribution in writing:** The committee has found that the faculty members of Civil, MBA, Basic Sciences, EEE, ECE departments are unpublished and lack research exposure. So, the committee has made a suggestion that the faculty members have to actively pursue research work and publish books. The research work and publishing of books could enhance the knowledge and exposure of the faculty members, as per the opinion of the committee.



# AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY

(Approved by A.I.C.T.E., New Delhi, & Permanently Affiliated to J.N.T.U.K., Kakinada)

NAAC B++ Accredited Institute

Cherukupally (Village), Near Tagarapuvalasa Bridge, Vizianagaram -531162.

www.aietta.ac.in, [principal@aietta.ac.in](mailto:principal@aietta.ac.in)

---

**3. Faculty as resource persons in workshops/training activities:** It was found that, different training Programs, seminars, conferences, workshops, are conducted by all the core department faculties but found to be lag in civil , as the resource persons, so action plan is proposed to support research development for further innovative skills.

- **CSE:** 1 Faculties are initiated as the resource persons for 1 Training programs
- **ECE:** Only one Faculty is initiated as the resource person for Training programs
- **MECH:** 1Faculties are initiated as the resource persons for 1 Training programs
- **EEE:** Not conducted
- **CIVIL:** No Faculty is initiated as the resource person for Training programs
- **BS&H:** Only one Faculty is initiated as the resource person for Training program
- **MBA:** Not conducted

**Action taken:** The IQAC committee members are given an advice to EEE, MBA Department to conduct Training programs for non-teaching

### III. Teaching learning process and evaluation:

- 1. Student performances, Attendance, Exams:** The performances as well as attendance of students are monitored in semester wise regularly, based on that, the condonation lists and detention lists are maintained, we found to be satisfactory to improve the results.
- 2. Mechanism and activities for slow learner's improvements:** Slow learners are identified in some departments such as EEE, CSE, Mechanical, ECE, so by verifying the documents supported, we advised to conduct extra-remedial and tutorial classes for them.
- 3. Student counseling/mentoring mechanism:** The committee has suggested a student mentorship program for every twenty students, with a faculty mentor guiding them through all their academic and personal challenges for better outcomes.
- 4. Review and evaluation of student projects:** By following the Performa of IQAC committee, best projects are initiated as per PRC guidelines by creating a corpus fund to support research activity, so it is satisfactory to some extent and we suggested the institution to provide best research facilities for further initiation of innovative projects.



# AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY

(Approved by A.I.C.T.E., New Delhi, & Permanently Affiliated to J.N.T.U.K., Kakinada)

NAAC B++ Accredited Institute

Cherukupally (Village), Near Tagarapuvalasa Bridge, Vizianagaram -531162.

www.aietta.ac.in, principal@aietta.ac.in

- 5. Teaching-learning process:** The Teaching-learning process has to be augmented through new insights and adopting better tools. As per the observation of the IQAC committee, the teaching- learning process has been found to be efficient through lectures, case studies, class room participation, assignments, debates among teams on subjects, and by using audio visual teaching. It has been found that the best practices of providing course material to the students of all the departments are satisfactory.
- 6. Monitoring of teaching process:** Monitoring process is found to be done by regular visits of the principal, through CC surveillance, and the syllabus coverage is tracked by maintaining track sheets. The evaluation of answer papers, the allotment of marks and the quality of mid-exam question papers is regularly checked by exam cell coordinator and the Principal. So, the report has found it satisfactory.
- 7. Result analysis:** The percentage of IV/I results is found to be low in the departments of CIVIL,EEE,CSE. So further step is advised in the form of conducting remedial classes to improve the results for next academic semester.

BRANCH	STRENGTH	PASS	FAIL	PASS %
CIV	37	34	3	91.89
EEE	36	24	12	66.67
MECH-A	39	33	6	84.62
MECH-B	46	37	9	80.43
MECH-C	51	47	4	92.16
ECE	48	24	24	50.00
CSE-A	57	41	16	71.93
CSE-B	43	30	13	69.77

**MOU's with industries for internship:** As we found that there are only few MOU's in departments such as EEE, CIVIL, MBA, so we suggested enhance the number of MOU'S.

- 8. Student's feedback and follow up action:** On the basis feedback given by the students, it was decided to make the teaching process more practical oriented. So, in audit report, we noted that there is lag of taking feedback in EEE and CIVIL departments, so we suggested maintaining the student's feedback and follow up action.



# AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY

(Approved by A.I.C.T.E., New Delhi, & Permanently Affiliated to J.N.T.U.K., Kakinada)

NAAC B++ Accredited Institute

Cherukupally (Village), Near Tagarapavalasa Bridge, Vizianagaram -531162.

www.aietta.ac.in, [principal@aietta.ac.in](mailto:principal@aietta.ac.in)

---

## IV. Research consultancy and Extension:

- 1. Promotion of Research:** It is found that the faculty members have no publications in peer review journals. The contribution of faculty members to research publications has been found to be zero in Civil, ECE, BS&H, MBA, EEE departments. The institute is ready to contribute in every way to promote research activity among the faculty. So, the faculty members are advised to take up research activity more seriously.
- 2. Funded R&D projects and consultancy works:** It's pleasure to note that the institute takes care of complete patent filing process as per national/international IPR guidelines & policies. R&D cell provides necessary eco-system/conducive- environment with infrastructure/expert support to staff to take-up in R&D consultancy and innovation. So, Staff of all the departments is suggested to be responsible for various R&D projects.
- 3. Incentives for faculty R&D:** It is satisfactory as the institute encourages the faculty, to enhance the research, by providing incentives for peer reviewed publications, consultancy works, writing books and filing up the patents.
- 4. MOU's with industries/R&D/Premier Institutes:** In this academic year, 21 MoU's with other institutes which are collaborated in a satisfactory note, to evolve a mutually productive framework between R&D and academia to spur the design & development for exchange of knowledge and skill amongst students, faculty and researchers right from the stage of ideation and conceptualization.

**Action Taken:** Further, the institution is planned for some more MOU's for extensive utilization of knowledge in the next academic year.

**Research centers of excellence established:** It is identified that the Research Centre are motivated to focus on new and emerging technologies, multidisciplinary and translational research relevant to national development goals.

- 5. Skill development center established:** The institution is suggested to entrust with the mission of producing systematically trained instructors to meet the huge demand of various Industrial training. For next academic year, further action is taken to implement skill development courses for upcoming aspirants.

## V. Infrastructure and Learning resources

- 1. Infrastructure facilities to improve teaching learning process:** New classrooms and





# AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY

(Approved by A.I.C.T.E., New Delhi, & Permanently Affiliated to J.N.T.U.K., Kakinada)

NAAC B++ Accredited Institute

Cherukupally (Village), Near Tagarapavalasa Bridge, Vizianagaram -531162.

[www.aietta.ac.in](http://www.aietta.ac.in), [principal@aietta.ac.in](mailto:principal@aietta.ac.in)

---

laboratories with modern facilities have been set-up to aid the teaching-learning process. As per the audit report, the Institute has a well-planned library and internet facility to cater to the needs of research scholars, with a facility of Online journal/E- content journals that are available during the library timings. The faculty members and students are advised to make good use of the infrastructure for a better output. So, it is found to be satisfactory.

**2. Internet facility for faculty and students:** It is found that, College is having 150 Mbps Internet connections and connected through Wi-Fi also to the central server are available for students for their project work and preparing seminar presentations. It also accesses to e- books, study materials, previous question papers daily circulars. Further action is taken for the well-equipped internet lab, providing high speed of connectivity the student can surf the net together unlimited information

- 3. Technical and administrative staff support:** Technical and Administrative staff works in office support positions to perform a variety of office tasks. The institution proposed to appoint some more technical staff and lab assistants in ECE, EEE departments for smooth handling of office tasks.
- 4. Department budget:** For budget and planning purposes, academic department activity typically occurs in their concerned department for managing the funds. So, it is flexible to enrich the needed sources.
- 5. Details of computing facilities and software:** It is proposed to provide open source computing platform for the students, staff and faculty in the departments of EEE, ECE and CIVIL of this Institute by providing support for conducting academic labs, training programs, short term courses and technical workshops.

## VI. Student information support and progression

- 1. Add-on courses:** It is found that, the objective of these courses is to provide an opportunity to do employment-oriented skill-based courses. So, in coming academic year, the number of Add-on-courses of all the departments, especially MBA is to be increased. Further action is taken to ensure practical training, in its quality of skill- oriented manner and to aim at the development of skills for entrepreneurship.
- 2. Placement training:** As the IQAC committee members, we are giving an advice, to empower the students with values and professional skills to get placed in the appropriate field. Special communication development Training programs are conducted for the



# AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY

(Approved by A.I.C.T.E., New Delhi, & Permanently Affiliated to J.N.T.U.K., Kakinada)

NAAC B++ Accredited Institute

Cherukupally (Village), Near Tagarapavalasa Bridge, Vizianagaram -531162.

[www.aietta.ac.in](http://www.aietta.ac.in), [principal@aietta.ac.in](mailto:principal@aietta.ac.in)

---

students of EEE, ECE and Mechanical branches by leading training Institutes. The needed action is taken for further Individual counseling to make them understand the certainty of life and train them to work towards the goal.

**CSE: 93%    ECE: 81.63%    EEE: 70%    CIVIL: 72.3%    MECH: 12.2%**

**Action taken:** To improve the placements in the departments of CIVIL, Mechanical, extra training programs are proposed to conduct.

- 3. Industrial visits and Internships:** The industrial visit has its own importance in a career. The industrial visit has its own importance in a career of a student as a part of college curriculum. So, it is satisfactory, that the institution is aimed further to improve the theoretical knowledge for the successful professional career by going beyond academics with a practical perspective of the workplace.

## VII. Governance and Leadership and management

- 1. Teaching and non-teaching attended for skill development programs:** It is found that, the institution has effective welfare measures for all the staff members. The institution conducts quality improvement programs for faculty and training programs for non-teaching staff periodically. In order to improve the qualification of EEE, Civil departments, the institution initiated some enhancing programs to update their knowledge and faculty members are given academic leave or special leave to attend FDPS, workshops /Seminars/ Conferences/Industrial training programs organized by premier institutions.
- 2. Display of vision, mission and quality objectives at prominent places:** To impart quality education to the students coming from rural areas, some suggestions are given to enhance the academic as well as extension activities, curricular and co-curricular activities are conducted.
- 3. Staff and students attendance monitoring system:** Regular follow up of biometric as well as Attendance registers are maintained and found to have regular monitoring systems, further action is to be taken to improve the surveillance methods.
- 4. Financial support/leaves for qualification/skill up-gradation:** After verifying all the departments, the external and internal provisions such as financial incentives and leave facility are provided for the faculty in a full-pledged way, for upgrading their qualification



# AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY

(Approved by A.I.C.T.E., New Delhi, & Permanently Affiliated to J.N.T.U.K., Kakinada)

NAAC B++ Accredited Institute

Cherukupally (Village), Near Tagarapuvalasa Bridge, Vizianagaram -531162.

[www.aietta.ac.in](http://www.aietta.ac.in), [principal@aietta.ac.in](mailto:principal@aietta.ac.in)

and pursue research activities. The faculty members are encouraged to pursue research and upgrade their skills by promising better pay and working terms. The seed money for research activity is provided with the collaboration of the affiliated university. It has been suggested to extend the period of required maternity leave.

- 5. Risk evaluation/safety measures:** It is found that, fire extinguishers are maintained in all the prominent places and needed corners of college and still further action was taken for improvement.

Coordinator of IQAC

COORDINATOR, IQAC  
AVANTHI INSTITUTE OF ENGG. & TECH.  
Cherukupally (V), Near Tagarapuvalasa Bridge  
Bhogapuram (M), Vizianagaram (D)-531162

Principal

PRINCIPAL  
AVANTHI INSTITUTE OF ENGG. & TECH  
Cherukupally (V), Chittivalasa (SAO)  
Bhogapuram (M),  
Vizianagaram (Dist.)-531162



# AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY

(Approved by A.I.C.T.E., New Delhi & Permanently Affiliated to J.N.T.U.K, Kakinada)

NAAC "B++" Accredited Institute

Cherukupally (Village), Near Tagarapuvalasa Bridge, Vizianagaram (Dist) -531162.

[www.aietta.ac.in](http://www.aietta.ac.in), [principal@aietta.ac.in](mailto:principal@aietta.ac.in)

## CIRCULAR

### Internal Quality Assurance Cell (IQAC)

#### ACADEMIC AUDIT (2019-2020)

Date: 10-08-2020

From

The coordinator of IQAC

Avanthi Institute of Engineering and

Technology

Cherukupally, Near

Tagarapuvalasa Bridge Vizianagaram-531162

To

The Principal

Avanthi Institute of Engineering and

Technology

Cherukupally, Near Tagarapuvalasa

Bridge Vizianagaram-531162

Sir/Madam

Sub: Requisition to all the IQAC members to audit the department wise academic audit work and submit to IQAC.

The members are informed to conduct the academic audit report for the academic year 2019-2020 as per the team given below and as per the schedule from 20<sup>th</sup> to 30 August 2020. On behalf of IQAC, I request the Principal to assign HOD's for cooperating the academic audit work with team members.

S.NO.	NAME OF THE DEPARTMENT	AUDIT MEMBERS	DATE
1	Computer science and engineering	SEM-II Dr. R. Swapana Mrs. K. Syamala	24-8-2020
2	Electronics and communication engineering	SEM-II Dr. R. Swapana Mr. A. Vasudeva Rao	25-8-2020
3	Electrical and electronics engineering	SEM-II Dr. A. Chandrasekhar Mr. J. R. G. Patnaik	27-8-2020
4	Mechanical engineering	SEM -II	26-8-2020



# AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY

(Approved by A.I.C.T.E., New Delhi & Permanently Affiliated to J.N.T.U.K, Kakinada)

NAAC "B++" Accredited Institute

Cherukupally (Village), Near Tagarapavalasa Bridge, Vizianagaram (Dist) -531162.

[www.aietta.ac.in](http://www.aietta.ac.in), [principal@aietta.ac.in](mailto:principal@aietta.ac.in)

		Dr.R.Swapana Mrs.K.Praveena	
5	Civil engineering	SEM -II Dr.R.Swapana Mrs. K.Syamala.	28-8-2020
6	Basic sciences and humanities	SEM-II Mr. V.SivaBhaskaraRao Dr. U. Ramu	21-8-2020
7	Master of business administration	SEM-II Dr.A.Chanrasekhar Mr.Sk.H.Sharief	30-8-2020

Copy to:

The Principal

All the Department

H.O.D's

The Members of

IQAC

Principal

**PRINCIPAL**

**AVANTHI INSTITUTE OF ENGG. & TECH**  
**Cherukupally (V), Chittivalasa (SAO)**  
**Bhogapuram (M),**  
**Vizianagaram (Dist.)-531162**

IQAC Coordinator

**COORDINATOR, IQAC**

**AVANTHI INSTITUTE OF ENGG. & TECH.**  
**Cherukupally (V), Near Tagarapavalasa Bridge**  
**Bhogapuram (M), Vizianagaram (D)-531162**



# AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY

(Approved by A.I.C.T.E., New Delhi & Permanently Affiliated to J.N.T.U.K, Kakinada)

NAAC "B++" Accredited Institute

Cherukupally (Village), Near Tagarapuvalasa Bridge, Vizianagaram (Dist) -531162.

www.aietta.ac.in, principal@aietta.ac.in

## ACADEMIC AUDIT REPORT (2019-2020)

### DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

Academic Year: 2019-2020

II SEMESTER

Date of Audit : 23-06-2020

We, Dr. R. Swapna and Mrs.K. Syamala were entrusted to carry out the audit work of Department of Computer Science and Engineering by the IQAC. The audit work was carried out with the consent and the presence of the Head of the Department and Department coordinators. The overall internal audit report was prepared & drafted based on the Academic Information Including strengths, weaknesses, and opportunities. The report was duly submitted along with suggestions to the IQAC.

#### 1. COs, POs curriculum

S.NO.	CRITERION	OBSERVATIONS
1	COs and POs attainment	CO's and PO's attainment calculated as per the procedure established by PAC and (Annexure 1.1) is enclosed
2	Stakeholders feedback related to curriculum design	Graduates exit survey; Alumni survey and employer survey, teachers survey are conducted and presented as consolidated as per format. (Annexure 1.2)
3	Action taken on Minutes of Meeting	Incorporated changes as per the suggestions by DAC, PAC and its Minutes of meeting, Curriculum changes and its evidences are enclosed (Annexure 1.3)
4	Percentage of Lab component	23.80%(5/21)-R19 23.25% (10/43) -R26 M.TECH 22.22%(4/18)II/II-R19 -Two additional experiments are conducted in all labs (Annexure 1.4)
5	Evidence of academic flexibility	13.34% (6/45) -R19(1P.E+1O.E) M. Tech-2 core electives 33.3% (6/18)-R19 (Annexure 1.5)



# AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY

(Approved by A.I.C.T.E., New Delhi & Permanently Affiliated to J.N.T.U.K, Kakinada)

NAAC "B++" Accredited Institute

Cherukupally (Village), Near Tagarapavalasa Bridge, Vizianagaram (Dist) -531162.

www.aietta.ac.in, principal@aietta.ac.in

## 2. Faculty information and their contribution

S.NO.	CRITERION	OBSERVATIONS
1	Student teacher ratio	19:1 29 faculty members are assigned to teach for 297 students
2	Faculty cadre ratio Prof:Assoc: Asst	Professors: 4 Associate Professor: 2 Assistant Professors: 23 Annexure:2.1
3	Faculty qualifications	Doctorates: 4 Ph.D. Pursuing :2 M. Tech: 23
4	Faculty experience and retention	Annexure 2.2 is enclosed by mentioning the (list of faculties, qualifications, total experience, experience at AIET)
5	Faculty contribution in writing: <ul style="list-style-type: none"><li>Books:</li><li>Book chapters:</li></ul>	Books: 1
6	Faculty in Professional bodies Faculty contributions	1 faculty members are enrolled in Professional bodies and its evidence is enclosed in annexure 2.3
7	Faculty as resource persons in workshops/training activities	Training and Programs:NIL
8	International/national level events organized <ul style="list-style-type: none"><li>Training Programs</li><li>Workshops/seminars:</li><li>FDP's</li></ul>	FDPs : 1 Annexure 2.4
9	List of conferences/seminars/workshops/FDP's/ any exclusive programmes attended for enrichment of teaching-learning process	Conferences:NIL Seminars: NIL Workshops: NIL FDP's: 20



# AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY

(Approved by A.I.C.T.E., New Delhi & Permanently Affiliated to J.N.T.U.K, Kakinada)

NAAC "B++" Accredited Institute

Cherukupally (Village), Near Tagarapavalasa Bridge, Vizianagaram (Dist) -531162.

www.aietta.ac.in, principal@aietta.ac.in

## 3. Teaching learning process and evaluation

S.NO.	CRITERION	OBSERVATIONS
1	Student performances Attendance Exams	List of students Detention and condonation are maintained.
2	Mechanism and activities for slow learners improvements	Slow learners are identified based on performance in Mid-exams. Conducted extra classes for slow learners
3	Student counselling/mentoring mechanism	20 students are allotted for each faculty member for better improvement of their academic results.
4	Initiatives taken for innovative projects	Nil
5	Review and evaluation of student projects: Best Projects	5 Best projects are carried as per PRC guidelines Annexure 3.1
6	Monitoring of teaching-learning process <ul style="list-style-type: none"><li>• Observation of teaching process in class rooms as per schedule</li><li>• Tracking of syllabus coverage</li><li>• Uploading of Lecture notes, question papers of mid and semester end examinations in E-learning portal</li><li>• Verification of evaluated answer papers</li><li>• Checking the quality of mid examinations question papers</li><li>• Innovative teaching methods presented</li><li>• Verification of course files</li><li>• Minutes of class committee meetings and action taken</li></ul>	<ul style="list-style-type: none"><li>• Regular visit by the principal</li><li>• CC surveillance</li></ul> As per schedule, the coverage of syllabus is strictly followed. by any consequences if there is any lag-on of syllabus extra classes will be conducted <ul style="list-style-type: none"><li>• Track sheets are maintained to review syllabus coverage.</li><li>• Evaluation of answer papers as per the allotment of marks</li><li>• Yes, the quality of mid-exam question papers is regularly checked by exam cell co-ordinator and the principal.</li><li>• Interactive way of teaching</li><li>• Regular verification of Attendance registers as well as the course files by HOD.</li><li>• Minutes of meetings are regularly conducted to discuss the matters that are related to Time Tables, academic planning and its facilities provided.</li></ul>





# AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY

(Approved by A.I.C.T.E., New Delhi & Permanently Affiliated to J.N.T.U.K, Kakinada)

NAAC "B++" Accredited Institute

Cherukupally (Village), Near Tagarapuvalasa Bridge, Vizianagaram (Dist) -531162.

www.aietta.ac.in, principal@aietta.ac.in

7	<p>Training programmes conducted for students</p> <ul style="list-style-type: none"> <li>• Guest Lectures</li> <li>• Add-on courses</li> <li>• Seminars/workshops</li> <li>• Compliance of department academic calendar</li> </ul>	<ul style="list-style-type: none"> <li>• 4 Guest lectures, Seminars are conducted for the students to get aware of some core related subjects, which are presented by eminent resource Persons.</li> <li>• Add-on Courses: 1 Programs are conducted for students Annexure 3.2</li> </ul>
8	MOU's with industries for internship	Internship with other industries are done
9	Students feedback and follow up action	Needed action is taken up by students feedback
10	<p>Scope for self-learning</p> <ul style="list-style-type: none"> <li>• Certificate courses</li> <li>• Online courses</li> </ul>	Faculty members were very instrumental in designing and developing 1 Add-on and Certificate course programs.
11	Result analysis and conduct of remedial classes for students with backlogs	<ul style="list-style-type: none"> <li>• Based on the results of mid exams, remedial classes are conducted.</li> <li>• Based on the results of main exams, backlog classes are conducted. Result Analysis Annexure 3.3</li> </ul>
12	<p>Placements (%):</p> <p>Industries/organizations:</p>	<p>(93%) 102 out of 98students are selected in different 24companies Annexure 3.5</p>
13	<p>Higher studies(%):</p> <p>--Institutions:</p>	<p>4 students are progressed for higher studies.</p> <ul style="list-style-type: none"> <li>• Dubba Naveen Kumar in MTech</li> <li>• Adusumilli Nitisha in MS</li> <li>• Chandravamsam Sai Surya Tejaswini in MS</li> <li>• Bulusu Satya Sai Rama Gopala Sai Harsha in MS</li> </ul>
14	<p>Student development activities:</p> <p>---Co-curricular</p> <p>---Extra-curricular activities</p>	<p>Students are participated both in co-curricular and extra-curricular activities Annexure 3.6</p>



# AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY

(Approved by A.I.C.T.E., New Delhi & Permanently Affiliated to J.N.T.U.K, Kakinada)

NAAC "B++" Accredited Institute

Cherukupally (Village), Near Tagarapavalasa Bridge, Vizianagaram (Dist) -531162.

www.aietta.ac.in, principal@aietta.ac.in

## 4. Research consultancy and Extension

S.NO.	CRITERION	OBSERVATIONS
1	Faculty Publications in journals: Peer review journals: Thomson Reuters Impact factor journals	Total No. Of Peer review journals: 2 No. SCOPUS/SCI Indexed journals: Nil
2	Publications in conferences: National: International:	National:1 International: 1
3	Percentage of Faculty contributing in Research Publications:	2.5 Percentage of Faculty contributing in Research Publications
4	Ph.D s registered: Submitted: Awarded: Ph.D. guiding/guided	Registered:3 Submitted: --Nil Awarded: Nil Guiding/guided: Nil
5	Funded R&D projects and consultancy works:	Funded R&D projects and consultancy works Evidences are enclosed Annexure 4.1
6	Incentives for faculty R&D	Incentives for faculty Research publications as per HR policy
7	MOU's with industries/R&D/Premier Institutes	MOU's with industries and R&D annexure:4.2
8	Research centres of excellence established:	Recognized as JNTUK Research centre of excellence for the academic year 2019-2020
9	Skill development centre established	YES, Skill development centre established in collaboration with APSSDC



# AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY

(Approved by A.I.C.T.E., New Delhi & Permanently Affiliated to J.N.T.U.K, Kakinada)

NAAC "B++" Accredited Institute

Cherukupally (Village), Near Tagarapuvalasa Bridge, Vizianagaram (Dist) -531162.

www.aietta.ac.in, principal@aietta.ac.in

## 5. Infrastructure and Learning resources

S.No	Criterion	Observations
1	Infrastructure facilities to improve teaching learning process Class rooms: Laboratories: E-class rooms: Seminars: Faculty rooms:	Classrooms: 16 Laboratories: 5 E-classrooms: 1 Seminar halls: 2 Faculty rooms: 4
2	Internet facility for faculty and students:	Wi-Fi net is enabled
3	Technical and administrative staff support	4 members of Technical and 1 members of administrative support is provided. P. Santhosh---Technical Ch. Shiva---- Technical K. Thalupulayya-- Technical T. Srinu--- Administrative support
4	Department budget: Sanctioned amount: Amount spent: New equipment added: Maintenance of equipment and consumable registers in labs	
5	Details of computing facilities and software	Total number of computers: 330 List of softwares: Windows7, Windows10, office-2007, oracle-10g, Rational Rose, TURBO C++, JDK, TURBO C, ORACLE 10G, Python
6	Dept, Newsletters and Magazine	Yes
7	Department level library resources	Yes



# AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY

(Approved by A.I.C.T.E., New Delhi & Permanently Affiliated to J.N.T.U.K, Kakinada)

NAAC "B++" Accredited Institute

Cherukupally (Village), Near Tagarapuvalasa Bridge, Vizianagaram (Dist) -531162.

www.aietta.ac.in, principal@aietta.ac.in

## 6. Student information support and progression

S.NO	Criterion	Observations
1	Add-on courses	Add-on courses conducted: 1 <ul style="list-style-type: none"><li>• Android Applications</li></ul>
2	Student Publications: Dept. student E-Club:	Student Publications: Nil No. of E-club activities for students: 2 <ul style="list-style-type: none"><li>• Iot club</li><li>• Electoral literacy club</li></ul>
3	Details for coaching provided for GATE/CRT/any other competitive examinations	External CRT classes are provided, 200 classes for an academic year
4	Industrial visits and Internships	

## 7. Governance, Leadership and Management

S.NO.	Criterion	Observations
1	Teaching and non-teaching attended for skill development programs	Both teaching and non-teaching staff are attended for skill development programs for an academic year 2020-2021
2	MOUs with premier institutions for knowledge exchange	MOUs And its Annexure 7.1
3	Display of vision, mission and quality objectives at prominent places	Yes
4	Staff and students attendance monitoring system: -Biometric: Attendance Registers:	Regular follow up of biometric as well as Attendance registers.



# AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY

(Approved by A.I.C.T.E., New Delhi & Permanently Affiliated to J.N.T.U.K, Kakinada)

NAAC "B++" Accredited Institute

Cherukupally (Village), Near Tagarapavalasa Bridge, Vizianagaram (Dist) -531162.

www.aietta.ac.in, principal@aietta.ac.in

5	Financial support/leaves for qualification/skill up-gradation:	Faculty members are sanctioned with Registration fees, TA and Academic Leave are also provide for attending conferences and workshops, extra leaves area sanctioned for faculty who undergo for research submission work.
6	Risk evaluation/safety measures	Maintaining fire extinguishers in all the prominent places and needed corners of college.

## 8. Strengths, weakness and areas of Improvement

### Strengths

- 1) Good faculty retention
- 2) More number of student placements
- 3) Research and Development cell
- 4) Strong department level support for faculty research activities
- 5) Supportive working environment among department members

### Weakness

- 1) Lack of NRI student attraction
- 2) Poor English speaking capacity of the students.
- 3) Poor socio-economic status of the students.
- 4) There is a need to modernize classrooms with ICT facilities



# AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY

(Approved by A.I.C.T.E., New Delhi & Permanently Affiliated to J.N.T.U.K, Kakinada)

NAAC "B++" Accredited Institute

Cherukupally (Village), Near Tagarapuvatalasa Bridge, Vizianagaram (Dist) -531162.

www.aietta.ac.in, principal@aietta.ac.in

## Opportunities:

- 1) By establishing stronger relationships with R&D organization.
- 2) Increase of research funding.
- 3) Interdisciplinary growth of core departments
- 4) Opportunity to maximize the potentiality of Centers of Excellence.

## Suggestions for Improvement


To overcome the challenges and improve the quality of education, evaluation can be done on the following factors such as maintenance of infrastructure, pedagogy skills, quality of teacher's education and extra-curricular as well as co-curricular activities.

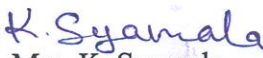
  
HOD-CSE

Head of the Department  
Computer Science and Engineering  
AVANTHI INSTITUTE OF ENGG. & TECH  
Cherukupally (V), Chittivalasa (SAO),  
Bhogapuram (M), Vizianagaram (D)-531162

COORDINATOR, IQAC  
AVANTHI INSTITUTE OF ENGG. & TECH.  
Cherukupally (V), Near Tagarapuvatalasa Bridge  
Bhogapuram (M), Vizianagaram (D)-531162

Sign. of Academic Auditors

  
Dr. R. Swapna  
Professor of BS & H

  
Mrs. K. Syamala  
Assoc. Professor of ECE



# AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY

(Approved by A.I.C.T.E., New Delhi & Permanently Affiliated to J.N.T.U.K., Kakinada)

NAAC "B++" Accredited Institute

Cherukupally (Village), Near Tagarapavalasa Bridge, Vizianagaram (Dist)-531162.

www.aietta.ac.in, principal@aietta.ac.in

## ACADEMIC AUDIT REPORT (2019-2020)

### DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

ACADEMIC YEAR: (2019-2020)

II SEM

Date of Audit: 27-08-2020

We, Dr. A. Chandra Sekhar and Mr. J.R.G. Patnaik were entrusted to carry out the audit work of Department of Electrical and Electronics Engineering by the IQAC. The audit work was carried out with the consent and the presence of the Head of the Department and Department coordinators. The overall internal audit report was prepared & drafted based on the Academic Information Including strengths, weakness, and opportunities. The report was duly submitted along with suggestions to the IQAC.

#### 1. COs, POs curriculum

S.NO.	CRITERION	OBSERVATIONS
1	COs and POs attainment	CO's and PO's attainment calculated as per the procedure established by PAC and (Annexure 1.1) is enclosed
2	Stakeholders feedback related to curriculum design	Graduates exit survey; Alumni survey and employer survey are conducted and presented as consolidated as per format. (Annexure 1.2)
3	Action taken on Minutes of Meeting	Incorporated changes as per the suggestions by DAC, PAC and its Minutes of meeting, Curriculum changes and its evidences are enclosed (Annexure 1.3)
4	Percentage of Lab component	16.6%(3.5/21) in R19 23.2%(10/43) in R16 M.TECH 22.22%(4/18)2-2 in R19 for PS 22.22%(4/18)2-2 in R19 for PE -Two additional experiments are conducted in all labs (Annexure 1.4)



## AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY

(Approved by A.I.C.T.E., New Delhi & Permanently Affiliated to J.N.T.U.K., Kakinada)

NAAC "B++" Accredited Institute

Cherukupally (Village), Near Tagarapuvalasa Bridge, Vizianagaram (Dist)-531162.

www.aietta.ac.in, principal@aietta.ac.in

5	Evidence of academic flexibility	13.3%(6/45) in R16(1 O.E+1 P.E) M.TECH 33.33%(6/18)-R19 for PS(2P.E) 33.33%(6/18)-R19 for PE(2P.E)  Annexure 1.5
---	----------------------------------	---

### 2. Faculty information and their contribution

S.NO.	CRITERION	OBSERVATIONS
1	Student teacher ratio	19:1 17 faculty are allotted to teach for 146 students
2	Faculty cadre ratio Prof : Assoc : Asst	Professors: 1 Associate Professor: 3 Assistant Professors: 13 Annexure:2.1
3	Faculty qualifications	Doctorates: 1 Ph.D.Pursuing :1 M.Tech: 15
4	Faculty experience and retention	Annexure 2.2 is enclosed by mentioning the (list of faculty, qualifications, total experience, experience at AIET)
5	Faculty contribution in writing: <ul style="list-style-type: none"><li>• Books:</li><li>• Book chapters:</li></ul>	Nil
6	Faculty in Professional bodies Faculty contributions	1 Faculty member is enrolled in Professional bodies and its evidence is enclosed in annexure 2.3
7	Faculty as resource persons in workshops/training activities	Nil
8	International/national level events organized <ul style="list-style-type: none"><li>• Training Programs</li><li>• workshops/seminars:</li><li>• FDP's :</li></ul>	Nil





# AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY

(Approved by A.I.C.T.E., New Delhi & Permanently Affiliated to J.N.T.U.K., Kakinada)

NAAC "B++" Accredited Institute

Cherukupally (Village), Near Tagarapuvalasa Bridge, Vizianagaram (Dist)-531162.

www.aietta.ac.in, principal@aietta.ac.in

9	List of conferences/seminars/workshops/FDP's/any exclusive programmes attended for enrichment of teaching-learning process	Conferences : Nil Seminars: Nil Workshops: 13 FDP's:8 Annexure2.4
---	--	---

### 3. Teaching learning process and evaluation

S.NO.	CRITERION	OBSERVATIONS
1	Student performances Attendance Exams	Lists of students Detention and condonation are maintained.
2	Mechanism and activities for slow learners improvements	Slow learners are identified based on performance in Mid-exams. Conducted extra classes for slow learners
3	Student counselling/mentoring mechanism	20 students are allotted for each faculty member for better improvement of their academic results.
4	Initiatives taken for innovative projects	Nil
5	Review and evaluation of student projects: ---Best Projects	5 Best projects are carried as per PRC guidelines Annexure 3.1
6	Monitoring of teaching-learning process <ul style="list-style-type: none"> <li>• Observation of teaching process in class rooms as per schedule</li> <li>• Tracking of syllabus coverage</li> <li>• Uploading of Lecture notes, question papers of mid and semester end examinations in E-learning portal</li> <li>• verification of evaluated answer papers</li> <li>• checking the quality of mid examinations question papers</li> <li>• Innovative teaching methods presented</li> <li>• Verification of course files</li> <li>• Minutes of class committee meetings and action taken</li> </ul>	<ul style="list-style-type: none"> <li>• Regular verification of Attendance registers</li> <li>• Uploading of course material with lesson plan.</li> <li>• Track sheets are maintained to review syllabus coverage</li> </ul>
7	Training programmes conducted for students <ul style="list-style-type: none"> <li>• Guest Lectures</li> <li>• Add-on courses</li> <li>• Seminars/workshops</li> <li>• Compliance of department academic</li> </ul>	<ul style="list-style-type: none"> <li>• Guest Lectures, seminars are conducted for the students to get aware of some corerelated subjects, which are presented by eminent resource Persons.</li> <li>• Add-onCourses:2 Programs are</li> </ul>



# AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY

(Approved by A.I.C.T.E., New Delhi & Permanently Affiliated to J.N.T.U.K., Kakinada)

NAAC "B++" Accredited Institute

Cherukupally (Village), Near Tagarapuvalasa Bridge, Vizianagaram (Dist)-531162.

www.aietta.ac.in, principal@aietta.ac.in

	calendar	conducted for students:Annexure3.2
8	MOU's with industries for internship	Internship with other industries are done
9	Students feedback and follow up action	Needed action is taken up by students feedback
10	Scope for self learning <ul style="list-style-type: none"> <li>• certificate courses</li> <li>• online courses</li> </ul>	Faculty members were very instrumental in designing and developing 2 Add-on and Certificate course programs.
11	Result analysis and conduct of remedial classes for students with backlogs	<ul style="list-style-type: none"> <li>• Remedial classes are conducted to form an improvement from Ist Mid exam to II mid exam</li> <li>• Extra classes are conducted for backlog students Annexure 3.4</li> </ul>
12	Placements ---( %): Industries/organizations:	(70%)out of 37students , 30 candidates are selected in different 18companies Annexure 3.5
13	Higher studies (%): --Institutions:	Nil
14	Student development activities: ---Co-curricular ---Extra-curricular activities	Students are participated both in co-curricular and extra-curricular activities Annexure 3.5

## 4. Research consultancy and Extension

S.NO.	CRITERION	OBSERVATIONS
1	Faculty Publications in journals: Peer review journals: Thomson Reuters Impact factor journals	Total No. Of Peer review journals: Nil No. SCOPUS/SCI Indexed journals : Nil
2	Publications in conferences: National: International:	Nil
3	Percentage of Faculty contributing in Research Publications:	41% of Faculty contributing in Research Publications:
4	Ph.D s registered: Submitted: Awarded: Ph.D. guiding/guided	Registered:--2 Submitted: --Nil Awarded: 1 Guiding/guided: Nil
5	Funded R&D projects and consultancy works:	Projects are done and its evidences are enclosed Annexure 4.1
6	Incentives for faculty R&D	Incentives for faculty Research publications as per HR policy
7	MOU's with industries/R&D/Premier Institutes	MOU's with industries and R&D annexure:4.2



# AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY

(Approved by A.I.C.T.E., New Delhi & Permanently Affiliated to J.N.T.U.K., Kakinada)

NAAC "B++" Accredited Institute

Cherukupally (Village), Near Tagarapuvalasa Bridge, Vizianagaram (Dist)-531162.

www.aietta.ac.in, principal@aietta.ac.in

8	Research centres of excellence established:	-----
9	Skill development centre established	YES, Skill development centre established in collaboration with APSSDC

## 5. Infrastructure and Learning resources

S.No	Criterion	Observations
1	Infrastructure facilities to improve teaching learning process Class rooms: Laboratories: E-class rooms: Seminars: Faculty rooms:	Classrooms:7 Laboratories:3 E-classrooms: 1 Seminar halls: 1 Faculty rooms: 2
2	Internet facility for faculty and students:	Wi-Fi net is enabled
3	Technical and administrative staff support	4 members of Technical support is provided. P. Santhosh- Technical Ch. Shiva- Technical I. Srinu- Lab Assistant T. Ramu- Lab Assistant
4	Department budget: Sanctioned amount: Amount spent: New equipment added: Maintenance of equipment and consumable registers in labs	
5	Details of computing facilities and software	Total number of computers:60 List of software procured: 1.MATLAB 2.PSPICE
6	Dept, Newsletters and Magazine	Yes
7	Department level library resources	Yes

## 6. Student information support and progression

S.NO	Criterion	Observations
1	Add-on courses	Add-on courses :2 1.Sub Station Designing 2.IOT(Internet of Things)
2	Student Publications: Dept. student E-Club:	Student Publications: Nil No. of E-club activities for students:2 1.Spark Club



# AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY

(Approved by A.I.C.T.E., New Delhi & Permanently Affiliated to J.N.T.U.K., Kakinada)

NAAC "B++" Accredited Institute

Cherukupally (Village), Near Tagarapuvalasa Bridge, Vizianagaram (Dist)-531162.

www.aietta.ac.in, principal@aietta.ac.in

		2. Electoral Literacy Club
3	Details for coaching provided for GATE/CRT/any other competitive examinations	External CRT classes are provided, 200 classes for an academic year
4	Industrial visits and Internships	Internships: II EEE:25 III EEE:16 are Participated

## 7. Governance, Leadership and Management

S.NO	Criterion	Observations
1	Teaching and non-teaching attended for skill development programs	Both teaching and non-teaching staff are attended for skill development programs for an academic year 2018-2019
2	MOUs with premier institutions for knowledge exchange	MOUs And its Annexure 7.1
3	Display of vision, mission and quality objectives at prominent places	Yes
4	Staff and students attendance monitoring system: -Biometric: Attendance Registers:	Regular follow up of biometric as well as Attendance registers.
5	Financial support/leaves for qualification/skill up-gradation:	Faculty members are sanctioned with Registration fees, TA and Academic Leave are also provide for attending conferences and workshops, extra leaves area sanctioned for faculty who undergo for research submission work.
6	Risk evaluation/safety measures	Maintaining fire extinguishers in all the prominent places of college.

## 8. Strengths, weakness and areas of Improvement

### Strengths

- 1) Good faculty retention
- 2) More number of student placements
- 3) Strong department level support for faculty research activities
- 4) Supportive working environment among department members
- 5) Faculty active participation in extra curricular activities



# AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY

(Approved by A.I.C.T.E., New Delhi & Permanently Affiliated to J.N.T.U.K., Kakinada)

NAAC "B++" Accredited Institute

Cherukupally (Village), Near Tagarapuvalasa Bridge, Vizianagaram (Dist)-531162.

www.aietta.ac.in, principal@aietta.ac.in

## Weakness

- 1) Lack of NRI students
- 2) Poor socio-economic status of the students.
- 3) There is a need to modernise classrooms with ICT facilities
- 4) Lack of mathematical ability

## Opportunities:

- 1) By establishing stronger relationships with R&D organization.
- 2) Increase of research funding.
- 3) Interdisciplinary growth of core departments
- 4) Opportunity to maximize the potentiality of Centres of Excellence.

## Suggestions for Improvement

To overcome the challenges and improve the quality of education, evaluation can be done on the following factors such as maintenance of infrastructure, pedagogy skills, quality of teacher's education and extra-curricular as well as co-curricular activities.

**HOD- EEE**

Head of The Department  
Department of Electrical and Electronics Engineering  
Avanthi Institute of Engg. & Tech.  
Cherukupally (V), Chittivalasa (SAO)  
Bhogapuram (M), Vizianagaram (Dist)-531163

**Sign. of Academic Auditors**

(Dr.A.Chandra Sekhar)  
Professor, Dept of CSE

(Mr.J.R.G.Patnaik)  
Professor, Dept. of BS&H

**ACADEMIC AUDIT REPORT (2019-2020)****DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING****AY: 2019-2020****II SEM****Date of Audit: 25-8-2020**

We, Dr. R. Swapna and Mr. A. Vasudeva Rao were entrusted to carry out the audit work of Department of Electronics and Communication Engineering by the IQAC. The audit work was carried out with the consent and the presence of the Head of the Department and Department coordinators. The overall internal audit report was prepared & drafted based on the Academic Information Including strengths, weakness, and opportunities. The report was duly submitted along with suggestions to the IQAC.

**1.CO's, POs curriculum**

S.NO.	CRITERION	OBSERVATIONS
1	COs and POs attainment	CO's and PO's attainment calculated as per the procedure established by PAC and (Annexure 1.1) is enclosed
2	Stakeholders feedback related to curriculum design	Graduates exit survey; Alumni survey and employer survey, teachers survey are conducted and presented as consolidated as per format. (Annexure 1.2)
3	Action taken on Minutes of Meeting	Incorporated changes as per the suggestions by DAC,PAC and it's Minutes of meeting, Curriculum changes and it's evidences are enclosed (Annexure 1.3)
4	Percentage of Lab component	19%(4/21) -R19 23%(10/43) -R16 M.Tech 22.2%(4/18)-R19  -Two additional experiments are conducted in all labs (Annexure 1.4)
5	Evidence of academic flexibility	1 Professional Elective+1 Open Elective 13%(6/45)- R16 M.Tech 2 core electives 33.3% (6/18)-R19 (Annexure 1.5)



# AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY

(Approved by A.I.C.T.E., New Delhi, & Permanently Affiliated to J.N.T.U.K., Kakinada)

NAAC B++ Accredited Institute

Cherukupally (Village), Near Tagarapavalasa Bridge, Bhogapuram (Mandal), Vizianagaram -531162.

www.aietta.ac.in, [principal@aietta.ac.in](mailto:principal@aietta.ac.in)

## 2. Faculty information and their contribution

S.NO.	CRITERION	OBSERVATIONS
1	Student teacher ratio	19:1 32 faculty members are assigned to teach for 174students
2	Faculty cadre ratio Prof : Assoc : Asst	Professors: 1 Associate Professor: 5 Assistant Professors: 26 Annexure:2.1
3	Faculty qualifications	Doctorates: 1 Ph.D. Pursuing :2 M.Tech: 29
4	Faculty experience and retention	Annexure 2.2 is enclosed by mentioning the (list of faculty, qualifications, total experience, experience at AIET)
5	Faculty contribution in writing: --Books: --Book chapters:	Nil
6	Faculty in Professional bodies Faculty contributions	2 Faculty members are enrolled in Professional bodies and its evidence is enclosed in annexure 2.3
7	Faculty as resource persons in workshops/training activities	Training and Programs:1 Annexure 2.4
8	International/national level events organized -- Training Programs --workshops/seminars: --FDP's :	FDP's : 2 Annexure 2.5
9	List of conferences/seminars/workshops/FDP's/any exclusive programmes attended for enrichment of teaching-learning process	Conferences:Nil Seminars:Nil Workshops:1 FDP's:16

## 3. Teaching learning process and evaluation

S.NO.	CRITERION	OBSERVATIONS
1	Student performances Attendance	List of students Detention and condonation are maintained.



# AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY

(Approved by A.I.C.T.E., New Delhi, & Permanently Affiliated to J.N.T.U.K., Kakinada)

NAAC B++ Accredited Institute

Cherukupally (Village), Near Tagarapuvalasa Bridge, Bhogapuram (Mandal), Vizianagaram -531162.

www.aietta.ac.in, [principal@aietta.ac.in](mailto:principal@aietta.ac.in)

	Exams	
2	Mechanism and activities for slow learners improvements	Slow learners are identified based on performance in Mid-exams. Conducted extra classes for slow learners
3	Student counselling/mentoring mechanism	20 students are allotted for each faculty member for better improvement of their academic results.
4	Initiatives taken for innovative projects	Nil
5	Review and evaluation of student projects: ---Best Projects	Best projects are carried as per PRC guidelines Annexure 3.1 Annexure 3.1
6	Monitoring of teaching-learning process --Observation of teaching process in class rooms as per schedule ---Tracking of syllabus coverage  --Uploading of Lecture notes, question papers of mid and semester end examinations in E-learning portal  ---verification of evaluated answer papers  ---checking the quality of mid examinations question papers  ---Innovative teaching methods presented  ---Verification of course files  ---Minutes of class committee meetings and action taken	<ul style="list-style-type: none"><li>• Regular visit by the principal</li><li>• CC surveillance</li></ul> As per schedule, the coverage of syllabus is strictly followed . by any consequences if there is any lag-on of syllabus extra classes will be conducted <ul style="list-style-type: none"><li>• Track sheets are maintained to review syllabus coverage.</li><li>• Evaluation of answer papers as per the allotment of marks</li><li>• Yes, the quality of mid-exam question papers is regularly checked by exam cell co-ordinator and the Principal.</li><li>• Interactive way of teaching</li><li>• Regular verification of Attendance registers as well as the course files by HOD.</li><li>• Minutes of meetings are regularly conducted to discuss the matters that are related to Time Tables, academic planning and its facilities provided.</li></ul>





# AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY

(Approved by A.I.C.T.E., New Delhi, & Permanently Affiliated to J.N.T.U.K., Kakinada)

NAAC B++ Accredited Institute

Cherukupally (Village), Near Tagarapuvalasa Bridge, Bhogapuram (Mandal), Vizianagaram -531162.

www.aietta.ac.in, [principal@aietta.ac.in](mailto:principal@aietta.ac.in)

7	<p>Training programmes conducted for students</p> <p>---Guest Lectures</p> <p>---Add-on courses</p> <p>---Seminars/workshops</p> <p>---Compliance of department academic calendar</p>	<ul style="list-style-type: none"> <li>• Guest lectures are conducted for the students to get aware of some core related subjects, which are presented by eminent resource Persons.</li> <li>• Add-on Courses:1 Programs are conducted for students</li> </ul> <p>: Annexure 3.2</p>
8	MOU's with industries for internship	Internship with other industries are done
9	Students feedback and follow up action	Needed action is taken up by students feedback
10	<p>Scope for self learning</p> <p>---certificate courses</p> <p>---online courses</p>	Faculty members were very instrumental in designing and developing 1 Add-onandCertificate course programs.
11	Result analysis and conduct of remedial classes for students with backlogs	<ul style="list-style-type: none"> <li>• Based on the results of mid exams, remedial classes are conducted .</li> <li>• Based on the results of main exams, backlog classes are conducted. .Annexure 3.4</li> </ul>
12	Placements ---( %): Industries/organizations:	(81.63% ) out of 49 students , 49 candidates are selected in different 20 companies Annexure 3.5
13	Higher studies(%): --Institutions:	<p>3 students are successfully progressed for higher studies.</p> <p>C.Vinay kumar M.TECH</p> <p>C.Triveni MBA</p> <p>S.Yamini PGDM</p>
14	<p>Student development activities:</p> <p>---Co-curricular</p> <p>---Extra-curricular activities</p>	Students are participated both in co-curricular and extra-curricular activities Annexure 3.5

## 4. Research consultancy and Extension

1	<p>Faculty Publications in journals:</p> <p>Peer review journals:</p>	<p>Total No. Of Peer review journals:</p> <p>No. SCOPUS/SCI Indexed journals :</p>
---	---	--



# AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY

(Approved by A.I.C.T.E., New Delhi, & Permanently Affiliated to J.N.T.U.K., Kakinada)

NAAC B++ Accredited Institute

Cherukupally (Village), Near Tagarapavalasa Bridge, Bhogapuram (Mandal), Vizianagaram -531162.

www.aietta.ac.in, principal@aietta.ac.in

	Thomson Reuters Impact factor journals	
2	Publications in conferences: National: International:	Nil
3	Percentage of Faculty contributing in Research Publications:	25 Percentage of Faculty contributing in Research Publications
4	Ph.D s registered: Submitted: Awarded: Ph.D. guiding/guided	Registered:2 Submitted: Nil Awarded: 2 Guiding/guided: Nil
5	Funded R&D projects and consultancy works:	Projects are done and its evidences are enclosed Annexure 4.1
6	Incentives for faculty R&D	Incentives for faculty Research publications as per HR policy
7	MOU's with industries/R&D/Premier Institutes	MOU's with industries and R&D annexure:4.2
8	Research centres of excellence established:	-----
9	Skill development center established	YES, Skill development center established in collaboration with APSSDC

## 5. Infrastructure and Learning resources

S.No	Criterion	Observations
1	Infrastructure facilities to improve teaching learning process Class rooms: Laboratories: E-class rooms: Seminars: Faculty rooms:	Classrooms:6 Laboratories:6 E-classrooms: 1 Seminar halls: 1 Faculty rooms: 3
2	Internet facility for faculty and students:	Wi-Fi net is enabled



# AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY

(Approved by A.I.C.T.E., New Delhi, & Permanently Affiliated to J.N.T.U.K., Kakinada)

NAAC B++ Accredited Institute

Cherukupally (Village), Near Tagarapuvalasa Bridge, Bhogapuram (Mandal), Vizianagaram -531162.

www.aietta.ac.in, principal@aietta.ac.in

3	Technical and administrative staff support	3 members of Technical and 3 members of administrative support is provided. P.Santhosh---Technical Ch. Rajani---- Technical Ch.Shiva---- Technical  K.Thapulayya-- administrative support B.Bhaskar--- administrative support
4	Department budget: Sanctioned amount: Amount spent: New equipment added: Maintenance of equipment and consumable registers in labs	
5	Details of computing facilities and software	Total number of computers:60 List of software procured: 1.MATLAB 2.XILINX 3.KEEL-V4,V5 4.ARDUINO 5.HFSS 6.MULTISIM
6	Dept, Newsletters and Magazine	Yes
7	Department level library resources	Yes

## 6. Student information support and progression

S.NO	Criterion	Observations
1	Add-on courses	Add-on courses :1 1.Nano Technology and Nano Sensors
2	Student Publications: Dept. student E-Club:	Student Publications: No. of E-club activities for students:2 1.Crexta 2.Electroral literacy club
3	Details for coaching provided for GATE/CRT/any other competitive examinations	External CRT classes are provided, 200 classes for an academic year
4	Industrial visits and Internships	Internships III ECE-15



# AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY

(Approved by A.I.C.T.E., New Delhi, & Permanently Affiliated to J.N.T.U.K., Kakinada)

NAAC B++ Accredited Institute

Cherukupally (Village), Near Tagarapavalasa Bridge, Bhogapuram (Mandal), Vizianagaram -531162.

www.aietta.ac.in, principal@aietta.ac.in

	II ECE -50 Students are participated.
--	---------------------------------------

## 7. Governance, Leadership and Management

S.NO.	Criterion	Observations
1	Teaching and non-teaching attended for skill development programs	Both teaching and non-teaching staff are attended for skill development programs for an academic year 2020-2021
2	MOUs with premier institutions for knowledge exchange	3 MOUs And its Annexure 7.1
3	Display of vision, mission and quality objectives at prominent places	Yes
4	Staff and students attendance monitoring system: -Biometric: Attendance Registers:	Regular follow up of biometric as well as Attendance registers.
5	Financial support/leaves for qualification/skill up-gradation:	Faculty members are sanctioned with Registration fees, TA and Academic Leave are also provide for attending conferences and workshops, extra leaves area sanctioned for faculty who undergo for research submission work.
6	Risk evaluation/safety measures	Maintaining fire extinguishers in all the prominent places and needed corners of college.

## 8. Strengths, weakness and areas of Improvement

### Strengths

- 1) Good faculty retention
- 2) More number of student placements
- 3) Strong department level support for faculty research activities
- 4) Supportive working environment among department members

### Weakness

- 1) Lack of NRI student attraction
- 2) Poor socio-economic status of the students.
- 3) There is a need to modernize classrooms with ICT facilities

### Opportunities:

- 1) By establishing stronger relationships with R&D organization.



# AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY

(Approved by A.I.C.T.E., New Delhi, & Permanently Affiliated to J.N.T.U.K., Kakinada)

NAAC B++ Accredited Institute

Cherukupally (Village), Near Tagarapuvalasa Bridge, Bhogapuram (Mandal), Vizianagaram -531162.

www.aietta.ac.in, [principal@aietta.ac.in](mailto:principal@aietta.ac.in)

- 2) Increase of research funding.
- 3) Interdisciplinary growth of core departments
- 4) Opportunity to maximize the potentiality of Centres of Excellence.

## Suggestions for Improvement

To overcome the challenges and improve the quality of education, evaluation can be done on the following factors such as maintenance of infrastructure, pedagogy skills, quality of teacher's education and extra-curricular as well as co-curricular activities.

**HOD-ECE**

**Head of the Department  
Electronics & Communication Engineering  
AVANTHI INSTITUTE OF ENGG. & TECH  
Cherukupally (Vill), Bhogapuram (M)  
VIZIANAGARAM (DIST)**

**Sign. of Academic Auditors**

(Dr.R.Swapna)

Professor, Dept. of BS&H

(Mr. A. Vasudeva Rao)

Asst.Professor, Dept. of CSE



# AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY

(Approved by A.I.C.T.E., New Delhi & Permanently Affiliated to J.N.T.U.K, Vizianagaram)

NAAC "B++" Accredited Institute

Cherukupally (Village), Near Tagarapualasa Bridge, Vizianagaram (Dist) -531162.

www.aietta.ac.in, principal@aietta.ac.in

## ACADEMIC AUDIT REPORT (2019-2020)

### DEPARTMENT OF MECHANICAL ENGINEERING

ACADEMIC YEAR : 2019-2020

II SEMESTER

DATE OF AUDIT : 26-8-2020

We, Dr. R. Swapna and Mrs. K. Praveena were entrusted to carry out the audit work of Department of Mechanical Engineering by the IQAC. The audit work was carried out with the consent and the presence of the Head of the Department and Department coordinators. The overall internal audit report was prepared & drafted based on the Academic Information Including strengths, weakness, and opportunities. The report was duly submitted along with suggestions to the IQAC.

#### 1. COs, POs curriculum

S.NO.	CRITERION	OBSERVATIONS
1	COs and POs attainment	CO's and PO's attainment calculated as per the procedure established by PAC and (Annexure 1.1) is enclosed
2	Stakeholders feedback related to curriculum design	Graduates exit survey; Alumni survey and employer survey, teachers survey are conducted and presented as consolidated as per format. (Annexure 1.2)
3	Action taken on Minutes of Meeting	Incorporated changes as per the suggestions by DAC,PAC and it's Minutes of meeting, Curriculum changes and it's evidences are enclosed (Annexure 1.3)
4	Percentage of Lab component	28% (17.5/62.5) <b>R20</b> <b>M.TECH</b> 22.22%(4/18) <b>R19</b> -Two additional experiments are conducted in all labs (Annexure 1.4)
5	Evidence of academic flexibility	27.9% (6/21.5) <b>R20</b> 6%(12/20) <b>R19</b> <b>M.TECH</b> 33.33(6/18) <b>R19 (2P.E)</b> (Annexure 1.5)



# AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY

(Approved by A.I.C.T.E., New Delhi & Permanently Affiliated to J.N.T.U.K, Vizianagaram)

NAAC "B++" Accredited Institute

Cherukupally (Village), Near Tagarapuvalasa Bridge, Vizianagaram (Dist) -531162.

www.aietta.ac.in, principal@aietta.ac.in

## 2. Faculty information and their contribution

S.NO.	CRITERION	OBSERVATIONS
1	Student teacher ratio	19:1 31 faculty members are assigned to teach for 460 students
2	Faculty cadre ratio Prof : Assoc : Asst	Professors: 3 Associate Professor: 5 Assistant Professors: 22 Annexure:2.1
3	Faculty qualifications	Doctorates : 3 Ph.D.Pursuing :11 M.Tech: 22
4	Faculty experience and retention	Annexure 2.2 is enclosed by mentioning the (list of faculty, qualifications, total experience, experience at AIET)
5	Faculty contribution in writing: --Books: --Book chapters:	Books-1
6	Faculty in Professional bodies Faculty contributions	2 faculty members are enrolled in Professional bodies and its evidence is enclosed in annexure 2.3
7	Faculty as resource persons in workshops/training activities	Training and Programs: NIL Annexure 2.4
8	International/national level events organized -- Training Programs --workshops/seminars: --FDP's :	FDP's : 1 Annexure 2.5
9	List of conferences/seminars/workshops/FDP's/any exclusive programmes attended for enrichment of teaching-learning process	Conferences: Nil Seminars: Nil Workshops: Nil FDP's: 26 Training Program:4 Annexure 2.6



# AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY

(Approved by A.I.C.T.E., New Delhi & Permanently Affiliated to J.N.T.U.K, Vizianagaram)

NAAC "B++" Accredited Institute

Cherukupally (Village), Near Tagarapuvalasa Bridge, Vizianagaram (Dist) -531162.

www.aietta.ac.in, principal@aietta.ac.in

## 3. Teaching learning process and evaluation

S.NO.	CRITERION	OBSERVATIONS
1	Student performances Attendance Exams	List of students Detention and condonation are maintained.
2	Mechanism and activities for slow learners improvements	Slow learners are identified based on performance in Mid-exams. Conducted extra classes for slow learners.
3	Student counselling/mentoring mechanism	20 students are allotted for each faculty member for better improvement of their academic results.
4	Initiatives taken for innovative projects	Nil
5	Review and evaluation of student projects: ---Best Projects	5 Best projects are carried as per PRC guidelines Annexure 3.1 Annexure 3.1
6	Monitoring of teaching-learning process --Observation of teaching process in class rooms as per schedule ---Tracking of syllabus coverage  --Uploading of Lecture notes, question papers of mid and semester end examinations in E-learning portal  ---verification of evaluated answer papers  ---checking the quality of mid examinations question papers  ---Innovative teaching methods presented  ---Verification of course files  ---Minutes of class committee meetings and action taken	<ul style="list-style-type: none"> <li>• Regular visit by the principal</li> <li>• CC surveillance</li> </ul> <p>As per schedule, the coverage of syllabus is strictly followed. by any consequences if there is any lag-on of syllabus extra classes will be conducted</p> <ul style="list-style-type: none"> <li>• Track sheets are maintained to review syllabus coverage.</li> <li>• Evaluation of answer papers as per the allotment of marks</li> <li>• Yes, the quality of mid-exam question papers is regularly checked by exam cell co-ordinator and the Principal.</li> <li>• Interactive way of teaching</li> <li>• Regular verification of Attendance</li> </ul>





# AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY

(Approved by A.I.C.T.E., New Delhi & Permanently Affiliated to J.N.T.U.K, Vizianagaram)

NAAC "B++" Accredited Institute

Cherukupally (Village), Near Tagarapavalasa Bridge, Vizianagaram (Dist) -531162.

www.aietta.ac.in, principal@aietta.ac.in

		<p>registers as well as the course files by HOD.</p> <ul style="list-style-type: none"> <li>• Minutes of meetings are regularly conducted to discuss the matters that are related to Time Tables, academic planning and its facilities provided.</li> </ul>
7	<p>Training programmes conducted for students            ---Guest Lectures            ---Add-on courses            ---Seminars/workshops            ---Compliance of department academic calendar</p>	<ul style="list-style-type: none"> <li>• 2 Guest lectures are conducted for the students to get aware of some core related subjects, which are presented by eminent resource Persons.</li> <li>• Add-on Courses:3 Programs are conducted for students: Annexure 3.2</li> <li>• Seminars: Nil</li> <li>• Workshops:3 Annexure 3.2</li> </ul>
8	MOU's with industries for internship	Internship with other industries is done.
9	Students feedback and follow up action	Needed action is taken up by students feedback.
10	<p>Scope for self learning            ---certificate courses            ---online courses</p>	Faculty members were very instrumental in designing and developing 3 Add- on and Certificate course programs.
11	Result analysis and conduct of remedial classes for students with backlogs	<ul style="list-style-type: none"> <li>• Based on the results of mid exams, remedial classes are conducted.</li> <li>• Based on the results of main exams, backlog classes are conducted.</li> <li>• Annexure 3.3</li> </ul>
12	<p>Placements --- (%):            Industries/organizations:</p>	(37.33%) students , 56 candidates are selected in different 21 companies Annexure 3.4
13	<p>Higher studies (%):            --Institutions:</p>	<p>3 students successfully progressed for higher studies.</p> <p>1.Kona Manoj Kumar, Avanthi Institute of Engineering and Technology</p> <p>2.Lukalapu.Ramu,</p>



# AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY

(Approved by A.I.C.T.E., New Delhi & Permanently Affiliated to J.N.T.U.K., Vizianagaram)

NAAC "B++" Accredited Institute

Cherukupally (Village), Near Tagarapuvalasa Bridge, Vizianagaram (Dist) -531162.

www.aietta.ac.in, principal@aietta.ac.in

		Nehru National Motilal Institute of Technogy,Allahabad. 3.Uppada Bala Bhaskar Rao, Anil Neerukonda Institute of Technology & Science
	Student development activities: ---Co-curricular ---Extra-curricular activities	Students are participated both in co-curricular and extra-curricular activities

## 4. Research consultancy and Extension

1	Faculty Publications in journals: Peer review journals: Thomson Reuters Impact factor journals	Total No. Of Peer review journals: Nil No. SCOPUS/SCI Indexed journals : 8
2	Publications in conferences: National: International:	1
3	Percentage of Faculty contributing in Research Publications:	(26.9% ) 7 faculties contributing in Research Publications
4	Ph.D s registered: Submitted: Awarded: Ph.D. guiding/guided	Registered:--11 Submitted: --Nil Awarded:3 Guiding/guided: Nil
5	Funded R&D projects and consultancy works:	5 Projects are done and its evidences are enclosed Annexure 4.1
6	Incentives for faculty R&D	Incentives for faculty Research publications as per HR policy
7	MOU's with industries/R&D/Premier Institutes	MOU's with industries and R&D annexure:4.2
8	Research centers of excellence established:	-----
9	Skill development centre established	YES, Skill development center established in collaboration with APSSDC



# AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY

(Approved by A.I.C.T.E., New Delhi & Permanently Affiliated to J.N.T.U.K, Vizianagaram)

NAAC "B++" Accredited Institute

Cherukupally (Village), Near Tagarapuvalasa Bridge, Vizianagaram (Dist) -531162.

www.aietta.ac.in, principal@aietta.ac.in

## 5. Infrastructure and Learning resources

S.No.	Criterion	Observations
1	Infrastructure facilities to improve teaching learning process Class rooms: Laboratories: E-class rooms: Seminars: Faculty rooms:	Classrooms:7 Laboratories:12 E-classrooms:1 Seminar halls:1 Faculty rooms:2
2	Internet facility for faculty and students:	Wi-Fi net is enabled
3	Technical and administrative staff support	6 members of Technical and 1 member of administrative support is provided. N.Suresh---Technical K. Appala Narayana---Technical P. Kamesh---Technical M.P. Divakar Das---Technical D. Srinivas---Technical P.Santhosh---Technical P. Ramu---Attender
4	Department budget: Sanctioned amount: Amount spent: New equipment added: Maintenance of equipment and consumable registers in labs	
5	Details of computing facilities and software	Total number of computers for students purpose:60 List of software procured: 1.ANSYS 15.U 2.CATIA V5 R13 3.MAT LAB
6	Dept, Newsletters and Magazine	Yes
7	Dept. level library resource	Yes



# AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY

(Approved by A.I.C.T.E., New Delhi & Permanently Affiliated to J.N.T.U.K, Vizianagaram)

NAAC "B++" Accredited Institute

Cherukupally (Village), Near Tagarapuvalasa Bridge, Vizianagaram (Dist) -531162.

www.aietta.ac.in, principal@aietta.ac.in

## 6. Student information support and progression

S.NO	Criterion	Observations
1	Add-on courses	3 Add-on courses are conducted 1) Basic level modelling in Auto Cad 2) Advance Deformation Technique and its Effects 3) 3DSMAX
2	Student Publications: Dept. student E-Club:	Student Publications: Nil No. of E-club activities for students:2 1. Mecha morphis 2. Electoral literacy club
3	Details for coaching provided for GATE/CRT/any other competitive examinations	External CRT classes are provided, 200 classes for an academic year
4	Industrial visits and Internships	Industrial visits:1 Internships: 2

## 7. Governance, Leadership and Management

S.NO.	Criterion	Observations
1	Teaching and non-teaching attended for skill development programs	Both teaching and non-teaching staff are attended for skill development programs for an academic year 2019-2020
2	MOUs with premier institutions for knowledge exchange	MOUs And its Annexure 7.1
3	Display of vision, mission and quality objectives at prominent places	Yes
4	Staff and students attendance monitoring system: -Biometric: Attendance Registers:	Regular follow up of biometric as well as Attendance registers.
5	Financial support/leaves for qualification/skill up-gradation:	Faculty members are sanctioned with Registration fees, TA and Academic Leave are also provide for attending conferences and workshops, extra leaves



# AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY

(Approved by A.I.C.T.E., New Delhi & Permanently Affiliated to J.N.T.U.K, Vizianagaram)

NAAC "B++" Accredited Institute

Cherukupally (Village), Near Tagarapuvalasa Bridge, Vizianagaram (Dist) -531162.

www.aietta.ac.in, principal@aietta.ac.in

		area sanctioned for faculty who undergo for research submission work.
6	Risk evaluation/safety measures	Maintaining fire extinguishers in all the prominent places and needed corners of college.

## 8. Strengths, weakness and areas of Improvement

### Strengths

- 1) Good faculty retention.
- 2) Effective technical and Innovative skills.
- 3) More number of student placements.
- 4) Good computational and experimental facilities.
- 5) Research and Development cell.
- 6) Strong department level support for faculty research activities.
- 7) Supportive working environment among department members.

### Weakness

- 1) Lack of NRI student attraction.
- 2) Poor socio-economic status of the students.
- 3) There is a need to modernize classrooms with ICT facilities.

### Opportunities:

- 1) By establishing stronger relationships with R&D organization.
- 2) Increase of research funding.
- 3) Interdisciplinary growth of core departments.
- 4) Opportunity to maximize the potentiality of Centres of Excellence.



# AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY

(Approved by A.I.C.T.E., New Delhi & Permanently Affiliated to J.N.T.U.K, Vizianagaram)

NAAC "B++" Accredited Institute

Cherukupally (Village), Near Tagarapuvalasa Bridge, Vizianagaram (Dist) -531162.

www.aietta.ac.in, principal@aietta.ac.in

## Suggestions for Improvement

To overcome the challenges and improve the quality of education, evaluation can be done on the following factors such as maintenance of infrastructure, pedagogy skills, quality of teacher's education and extra-curricular as well as co-curricular activities

HOD-MECH

HOD

**MECHANICAL DEPARTMENT**  
AVANTHI INSTITUTE OF ENGG. & TEC  
Bhogapuram (V), Vizianagaram (Dist.)

Sign. Of Academic Auditors

Dr. R. Swapana  
Professor, Dept. of BS&H

Mrs. K. Praveena  
Asst. Professor, Dept. of EEE



# AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY

(Approved by A.I.C.T.E., New Delhi & Permanently Affiliated to J.N.T.U.K,  
Kakinada) NAAC "B++" Accredited Institute

Cherukupally (Village), Near Tagarapavalasa Bridge, Vizianagaram (Dist) -531162.

[www.aictta.ac.in](http://www.aictta.ac.in), [principal@aictta.ac.in](mailto:principal@aictta.ac.in)

## ACADEMIC AUDIT REPORT (2019-2020)

### DEPARTMENT OF CIVIL ENGINEERING

A.Y:2019-2020

IISEM

Date of Audit:27-12-2019

We, Dr.A. Chandra Sekhar and Mr. A. Vasudeva Rao were entrusted to carry out the audit work of Department of Civil Engineering by the IQAC .The audit work was carried out with the consent and the presence of the Head of the Department and Department coordinators. The overall internal audit report was prepared & drafted based on the Academic Information Including strengths, weakness, and opportunities. The report was duly submitted along with suggestions to the IQAC .

#### 1. COs, Pos curriculum

S.NO.	CRITERION	OBSERVATIONS
1	Cos and Pos attainment	CO's and PO's attainment calculated as per the procedure established by PAC and (Annexure 1.1) is enclosed
2	Stakeholders feedback related to curriculum design	Graduates exit survey; Alumni survey and employer survey, teachers survey are conducted and presented as consolidated as perform at. (Annexure 1.2)
3	Action taken on Minutes of Meeting	Incorporated changes as per the suggestions by DAC, PAC and its Minutes of meeting, Curriculum changes and its evidences are enclosed (Annexure 1.3)
4	Percentage of Lab component	27.27%(4/22) II/II-R16 28.57% (6/21)III/II-R16 Two additional experiments are conducted in all labs(Annexure 1.4)
5	Evidence of academic flexibility	14.28%(3/21)III/II-R16-OE 12.5%(3/24)IV/II-R1-EL-III

#### 2. Faculty information and their contribution

S.NO.	CRITERION	OBSERVATIONS
1	Student teacher ratio	19:1 10 faculty members are assigned to teach for 122 students



# AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY

(Approved by A.I.C.T.E., New Delhi & Permanently Affiliated to J.N.T.U.K, Kakinada)

NAAC "B++" Accredited Institute

Cherukupally (Village), Near Tagarapuvalasa Bridge, Vizianagaram (Dist) -531162.

www.aietta.ac.in, principal@aietta.ac.in

3	Faculty qualifications	Doctorates: Nil Ph.D. Pursuing: Nil M. Tech: 10
4	Faculty experience and retention	Annexure 2.2 is enclosed by mentioning the (list of faculties, qualifications, total experience, experience at AIET)
5	Faculty contribution in writing: <ul style="list-style-type: none"><li>• Books:</li><li>• Book chapters:</li></ul>	Nil
6	Faculty in Professional bodies Faculty contributions	Nil
7	Faculty as resource persons in workshops/training activities	Nil
8	International/national level events organized <ul style="list-style-type: none"><li>• Training Programs</li><li>• workshops/seminars:</li><li>• FDP's:</li></ul>	FDP's: Nil
9	List of conferences/seminars/workshops/FDP's/any exclusive programmes attended for enrichment of teaching-learning process	Conferences: Nil Seminars: Nil Workshops: Nil FDP's: Nil

### 3. Teaching learning process and evaluation

S.NO.	CRITERION	OBSERVATIONS
1	Student performances Attendance Exams	List of students Detention and condonation are maintained.
2	Mechanism and activities for slow learners improvements	Slow learners are identified based on performance in Mid-exams. Conducted extra classes for slow learners
3	Student counselling/mentoring mechanism	20 students are allotted for each faculty member for better improvement of their academic results.
4	Initiatives taken for innovative projects	Nil





# AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY

(Approved by A.I.C.T.E., New Delhi & Permanently Affiliated to J.N.T.U.K, Kakinada)

NAAC "B++" Accredited Institute

Cherukupally (Village), Near Tagarapuvalasa Bridge, Vizianagaram (Dist) -531162.

www.aietta.ac.in, principal@aietta.ac.in

5	<p>Review and evaluation of student projects:</p> <ul style="list-style-type: none"> <li>• Best Projects</li> </ul>	<p>5 Best projects are carried as per PRC guidelines Annexure 3.1</p>
6	<p>Monitoring of teaching-learning process</p> <ul style="list-style-type: none"> <li>• Observation of teaching process in class rooms as per schedule</li> <li>• Tracking of syllabus coverage</li> <li>• Uploading of Lecture notes, question papers of mid and semester end examinations in E-learning portal</li> <li>• Verification of evaluated answer papers</li> <li>• Checking the quality of mid examinations question papers</li> <li>• Innovative teaching methods presented</li> <li>• Verification of course files</li> <li>• Minutes of class committee meetings and action taken</li> </ul>	<ul style="list-style-type: none"> <li>• Regular visit by the principal</li> <li>• CC surveillance</li> </ul> <p>As per schedule, the coverage of syllabus is strictly followed, by any consequences if there is any lag-on of syllabus extra classes will be conducted</p> <ul style="list-style-type: none"> <li>• Track sheets are maintained to review syllabus coverage.</li> <li>• Evaluation of answer papers as per the allotment of marks</li> <li>• Yes, the quality of mid-exam question papers is regularly checked by exam cell co-ordinator and the Principal.</li> <li>• Interactive way of teaching</li> <li>• Regular verification of Attendance registers as well as the course files by HOD.</li> <li>• Minutes of meetings are regularly conducted to discuss the matters that are related to Time Tables, academic planning and its facilities provided.</li> </ul>
7	<p>Training programmes conducted for students</p> <ul style="list-style-type: none"> <li>• Guest Lectures</li> <li>• Add-on courses</li> <li>• Seminars/workshops</li> <li>• Compliance of department academic calendar</li> </ul>	<ul style="list-style-type: none"> <li>• Guest lectures and seminars are conducted for the students to get aware of some core related subjects, which are presented by eminent resource Persons.</li> <li>• Add-on Courses:1 Program is conducted for students : Annexure 3.2</li> </ul>
8	<p>MOU's with industries for internship</p>	<p>Internship with other industries is done and its evidences are enclosed. Annexure 3.3</p>
9	<p>Students feedback and follow up action</p>	<p>Needed action is taken up by students' feedback and its evidence is enclosed</p>



# AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY

(Approved by A.I.C.T.E., New Delhi & Permanently Affiliated to J.N.T.U.K, Kakinada)

NAAC "B++" Accredited Institute

Cherukupally (Village), Near Tagarapuvalasa Bridge, Vizianagaram (Dist) -531162.

www.aietta.ac.in, principal@aietta.ac.in

10	Scope for self learning <ul style="list-style-type: none"> <li>• Certificate courses</li> <li>• Online courses</li> </ul>	Faculty members were very instrumental in designing and developing 1 Add-on and Certificate course programs.
11	Result analysis and conduct of remedial classes for students with backlogs	<ul style="list-style-type: none"> <li>• Based on the results of mid exams, remedial classes are conducted.</li> <li>• Based on the results of main exams, backlog classes are conducted.</li> </ul> its evidences are enclosed Annexure 3.4
12	Placements (%): Industries/organizations:	(72.9%) students , 27 candidates are selected in different companies Annexure 3.5
13	Higher studies (%): <ul style="list-style-type: none"> <li>• Institutions:</li> </ul>	Nil
14	Student development activities: <ul style="list-style-type: none"> <li>• Co-curricular</li> <li>• Extra-curricular activities</li> </ul>	Students are participated both in co-curricular and extra-curricular activities Annexure 3.5

## 4. Research consultancy and Extension

S.NO.	CRITERION	OBSERVATIONS
1	Faculty Publications in journals: Peer review journals: Thomson Reuters Impact factor journals	Total No. Of Peer review journals: Nil No. SCOPUS/SCI Indexed journals: Nil
2	Publications in conferences: National: International:	Nil
3	Percentage of Faculty contributing in Research Publications:	Nil
4	Ph.D. s registered: Submitted: Awarded: Ph.D. guiding/guided	Registered: -- Nil Submitted: --Nil Awarded: Nil Guiding/guided: Nil
5	Funded R&D projects and consultancy works:	Projects are done and its evidences are enclosed Annexure 4.1



## AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY

(Approved by A.I.C.T.E., New Delhi & Permanently Affiliated to J.N.T.U.K, Kakinada)

NAAC "B++" Accredited Institute

Cherukupally (Village), Near Tagarapuvalasa Bridge, Vizianagaram (Dist) -531162.

www.aietta.ac.in, principal@aietta.ac.in

6	Incentives for faculty R&D	Incentives for faculty Research publications as per HR policy
7	MOU's with industries/R&D/Premier Institutes	MOU's with industries and R&D annexure:4.2
8	Research centres of excellence established:	-----
9	Skill development centre established	YES, Skill development centre established in collaboration with APSSDC

### 5. Infrastructure and Learning resources

S.No	Criterion	Observations
1	Infrastructure facilities to improve teaching learning process Class rooms: Laboratories: E-class rooms: Seminars: Faculty rooms:	Classrooms:3 Laboratories:5 E-classrooms:1 Seminar halls: 1 Faculty rooms:1
2	Internet facility for faculty and students:	Wi-Fi net is enabled
3	Technical and administrative staff support	1 member of Technical and 1 member of administrative support is provided. Ch. Shiva-Technical K. Thapalayya- administrative support
4	Department budget: Sanctioned amount: Amount spent: New equipment added: Maintenance of equipment and consumable registers in labs	
5	Details of computing facilities and software	Total Number of computers: 60 List of software procured: 1. Auto CAD 2. STAAD Pro 3. Arc GIS
6	Dept, Newsletters and Magazine	Yes



# AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY

(Approved by A.I.C.T.E., New Delhi & Permanently Affiliated to J.N.T.U.K, Kakinada)

NAAC "B++" Accredited Institute

Cherukupally (Village), Near Tagarapuvalasa Bridge, Vizianagaram (Dist) -531162.

www.aietta.ac.in, principal@aietta.ac.in

7	Department level library resources	Yes
---	------------------------------------	-----

## 6. Student information support and progression

S.NO	Criterion	Observations
1	Add-on courses	Add-on courses: 2 STAAD Pro
2	Student Publications: Dept. student E-Club:	Student Publications: Nil No. of E-club activities for students: 2 Budlers Club, Electoral literacy club.
3	Details for coaching provided for GATE/CRT/any other competitive examinations	External CRT classes are provided, 200 classes for an academic year
4	Industrial visits and Internships	III (Civil) 20, II (Civil) 11 students are Participated

## 7. Governance, Leadership and Management

S.NO.	Criterion	Observations
1	Teaching and non-teaching attended for skill development programs	Both teaching and non-teaching staff are attended for skill development programs for an academic year 2019-2020
2	MOUs with premier institutions for knowledge exchange	MOUs And its Annexure 7.1
3	Display of vision, mission and quality objectives at prominent places	Yes
4	Staff and students' attendance monitoring system: Biometric: Attendance Registers:	Regular follow up of biometric as well as Attendance registers.
5	Financial support/leaves for qualification/skill up-gradation:	Faculty members are sanctioned with Registration fees, TA and Academic Leave are also provide for attending conferences and workshops, extra leaves area sanctioned for faculty who undergo for research submission work.
6	Risk evaluation/safety measures	Maintaining fire extinguishers in all the prominent places and needed corners of



# AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY

(Approved by A.I.C.T.E., New Delhi & Permanently Affiliated to J.N.T.U.K, Kakinada)

NAAC "B++" Accredited Institute

Cherukupally (Village), Near Tagarapuvalasa Bridge, Vizianagaram (Dist) -531162.

www.aietta.ac.in, principal@aietta.ac.in

		college.
--	--	----------

## 8. Strengths, weakness and areas of Improvement

### Strengths

- 1) Good faculty retention
- 2) Effective technical and Innovative skills
- 3) More number of student placements
- 4) Good computational and experimental facilities
- 5) Supportive working environment among department members

### Weakness

- 1) Lack of NRI student attraction
- 2) Poor English-speaking capacity of the students.
- 3) Poor socio-economic status of the students.
- 4) There is a need to modernize classrooms with ICT facilities

### Opportunities:

- 1) By establishing stronger relationships with R&D organization.
- 2) Increase of research funding.
- 3) Interdisciplinary growth of core departments
- 4) Opportunity to maximize the potentiality of Centers of Excellence.

### Suggestions for Improvement

To overcome the challenges and improve the quality of education, evaluation can be done on the following factors such as maintenance of infrastructure, pedagogy skills, quality of teacher's education and extra-curricular as well as co-curricular activities.

HOD-CIVIL

Head of the Department  
Civil Engineering  
AVANTHI INSTITUTE OF ENGG. & TECH.  
Cherukupally (V), Chittivalasa (SAO)  
Bhogapuram (M), Vizianagaram (D)-531162

Sign. of Academic Auditors

Dr. R. Swapna  
Professor, Dept, of Bs&H

Mr. A. Vasudeva Rao  
Professor, Dept. of CSE



# AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY

(Approved by A.I.C.T.E., New Delhi & Permanently Affiliated to J.N.T.U.K, Kakinada)

NAAC "B++" Accredited Institute

Cherukupally (Village), Near Tagarapuvalasa Bridge, Vizianagaram (Dist) -531162.

www.aietta.ac.in, principal@aietta.ac.in

## ACADEMIC AUDIT REPORT (2019-2020)

### DEPARTMENT OF BASIC SCIENCES AND HUMANITIES

A.Y : 2019-2020

SEM-II

Date of Audit:21-8-2020

We, Dr. B. Avinash Ben and Mrs. K. Praveena were entrusted to carry out the audit work of Department of Basic Sciences and Humanities by the IQAC. The audit work was carried out with the consent and the presence of the Head of the Department and Department coordinators. The overall internal audit report was prepared & drafted based on the Academic Information Including strengths, weakness, and opportunities. The report was duly submitted along with suggestions to the IQAC

#### 1. COs, POs curriculum

S.NO.	CRITERION	OBSERVATIONS
1	COs and POs attainment	CO's and PO's attainment calculated by the faculty of BS&H and forwarded to concerned Department.
2	Stakeholders feedback related to curriculum design	Graduates exit survey; Alumni survey and employer survey are conducted and presented as consolidated as per format and sent by concerned Departments
3	Action taken on Minutes of Meeting	N/A
4	Percentage of Lab component	N/A
5	Evidence of academic flexibility	N/A

#### 2. Faculty information and their contribution

S.NO.	CRITERION	OBSERVATIONS
1	Student teacher ratio	1:19
2	Faculty cadre ratio Prof : Asso : Asst	Professors: 0 Associate Professor: 5 Assistant Professors: 21 Annexure:2.1



# AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY

(Approved by A.I.C.T.E., New Delhi & Permanently Affiliated to J.N.T.U.K, Kakinada)

NAAC "B++" Accredited Institute

Cherukupally (Village), Near Tagarapuvalasa Bridge, Vizianagaram (Dist) -531162.

www.aietta.ac.in, principal@aietta.ac.in

3	Faculty qualifications	Doctorates : 8 Ph.D Pursuing :3 M.Sc: 15
4	Faculty experience and retention	Annexure 2.2 is enclosed by mentioning the (list of faculty, qualifications, total experience, experience at AIET)
5	Faculty contribution in writing: --Books: --Book chapters:	Nil
6	Faculty in Professional bodies Faculty contributions	2 Faculty members are enrolled in Professional bodies and its evidence is enclosed
7	Faculty as resource persons in workshops/training activities	Training programs:1 FDP:0
8	International/national level events organized -- Training Programs --workshops/seminars: --FDP's :	FDP: 2 Annexure 2.3
9	List of conferences/seminars/workshops/FDP's/any exclusive programmes attended for enrichment of teaching-learning process	Conferences: Nil Seminars: Nil Workshops: 1 FDP's: 10 Annexure 2.4

### 3. Teaching learning process and evaluation

S.NO.	CRITERION	OBSERVATIONS
1	Student performances Attendance Exams	Lists of students Detention and condonation are maintained.
2	Mechanism and activities for slow learners improvements	Slow learners are identified based on performance in Mid-exams. Conducted extra classes for slow learners
3	Student counseling/mentoring mechanism	20 students are allotted for each



# AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY

(Approved by A.I.C.T.E., New Delhi & Permanently Affiliated to J.N.T.U.K, Kakinada)

NAAC "B++" Accredited Institute

Cherukupally (Village), Near Tagarapuvalasa Bridge, Vizianagaram (Dist) -531162.

www.aietta.ac.in, principal@aietta.ac.in

		faculty member for better improvement of their academic results.
4	Initiatives taken for innovative projects	Nil
5	Review and evaluation of student projects: <ul style="list-style-type: none"> <li>• Best Projects</li> </ul>	Not applicable
6	Monitoring of teaching-learning process <ul style="list-style-type: none"> <li>• Observation of teaching process in class rooms as per schedule</li> <li>• Tracking of syllabus coverage</li> <li>• Uploading of Lecture notes, question papers of mid and semester end examinations in E-learning portal</li> <li>• verification of evaluated answer papers</li> <li>• checking the quality of mid examinations question papers</li> <li>• Innovative teaching methods presented</li> <li>• Verification of course files</li> <li>• Minutes of class committee meetings and action taken</li> </ul>	<ul style="list-style-type: none"> <li>• Regular verification of Attendance registers</li> <li>• Uploading of course material with lesson plan.</li> <li>• Track sheets are maintained to review syllabus coverage</li> </ul>
7	Training programmes conducted for students <ul style="list-style-type: none"> <li>• Guest Lectures</li> <li>• Add-on courses</li> <li>• Seminars/workshops</li> <li>• Compliance of department academic calendar</li> </ul>	Add-on Courses:2 Programs are conducted for students Annexure 3.1
8	MOU's with industries for internship	Not applicable
9	Students feedback and follow up action	Needed action is taken up by students feedback and its evidence is enclosed Annexure
10	Scope for self learning <ul style="list-style-type: none"> <li>• certificate courses</li> <li>• online courses</li> </ul>	N/A
11	Result analysis and conduct of remedial	<ul style="list-style-type: none"> <li>• Remedial classes are conducted</li> </ul>





# AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY

(Approved by A.I.C.T.E., New Delhi & Permanently Affiliated to J.N.T.U.K, Kakinada)

NAAC "B++" Accredited Institute

Cherukupally (Village), Near Tagarapuvalasa Bridge, Vizianagaram (Dist) -531162.

www.aietta.ac.in, principal@aietta.ac.in

	classes for students with backlogs	to form an improvement from I Mid exam to II mid exam <ul style="list-style-type: none"> <li>Extra classes are conducted for backlog students</li> </ul>
12	Placements --- (%): Industries/organizations:	N/A
13	Higher studies (%): <ul style="list-style-type: none"> <li>Institutions:</li> </ul>	N/A
14	Student development activities: <ul style="list-style-type: none"> <li>Co-curricular</li> <li>Extra-curricular activities</li> </ul>	Students are participated both in co-curricular and extra-curricular activities Annexure 3.2

## 4. Research consultancy and Extension

S.NO.	CRITERION	OBSERVATIONS
1	Faculty Publications in journals: Peer review journals: Thomson Reuters Impact factor journals	Total No. Of Peer review journals: No. SCOPUS/SCI Indexed journals : Nil
2	Publications in conferences: National: International:	Nil
3	Percentage of Faculty contributing in Research Publications:	International: Nil
4	Ph.D s registered: Submitted: Awarded: Ph.D. guiding/guided	Registered:--3 Submitted: --Nil Awarded: 8 Guiding/guided: Nil
5	Funded R&D projects and consultancy works:	Nil
6	Incentives for faculty R&D	Nil
7	MOU's with industries/R&D/Premier Institutes	N/A
8	Research center of excellence established:	----
9	Skill development center established	YES, Skill development center established in collaboration with



# AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY

(Approved by A.I.C.T.E., New Delhi & Permanently Affiliated to J.N.T.U.K, Kakinada)

NAAC "B++" Accredited Institute

Cherukupally (Village), Near Tagarapuvalasa Bridge, Vizianagaram (Dist) -531162.

www.aietta.ac.in, principal@aietta.ac.in

APSSDC

## 5. Infrastructure and Learning resources

S.No	Criterion	Observations
1	Infrastructure facilities to improve teaching learning process Class rooms: Laboratories: E-class rooms: Seminars: Faculty rooms:	Classrooms:14 Laboratories:3 E-classrooms: 1 Seminar halls: 2 Faculty rooms: 4
2	Internet facility for faculty and students:	Wi-Fi net is enabled
3	Technical and administrative staff support	3 members of Technical and 3members of administrative support is provided. Ch. Rajani---- Attender Ch.Shiva---- Attender A.Srinu - ---- Attender P.Santhosh---Technical N.Chitti Babu-- Technical B.Appala Raju--- Technical
4	Department budget: Sanctioned amount: Amount spent: New equipment added: Maintenance of equipment and consumable registers in labs	
5	Details of computing facilities and software	Total number of computers:120 List of software procured:
6	Dept, Newsletters and Magazine	Yes
7	Department level library resources	Yes



# AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY

(Approved by A.I.C.T.E., New Delhi & Permanently Affiliated to J.N.T.U.K, Kakinada)

NAAC "B++" Accredited Institute

Cherukupally (Village), Near Tagarapavalasa Bridge, Vizianagaram (Dist) -531162.

www.aietta.ac.in, principal@aietta.ac.in

## 6. Student information support and progression

S.NO	Criterion	Observations
1	Add-on courses	Add-on courses : 2 1. Fundamental and applications in computer vision 2. Nano technology and Nano Sensors
2	Student Publications: Dept. student E-Club:	Student Publications: Nil No. of E-club activities for students: Nil
3	Details for coaching provided for GATE/CRT/any other competitive examinations	External CRT classes are provided, 200 classes for an academic year
4	Industrial visits and Internships	3 Internships and 3 industrial visits are regularly conducted

## 7. Governance, Leadership and Management

S.NO.	Criterion	Observations
1	Teaching and non-teaching attended for skill development programs	Both teaching and non-teaching staff are attended for skill development programs for an academic year 2020-2021
2	MOUs with premier institutions for knowledge exchange	N/A
3	Display of vision, mission and quality objectives at prominent places	Yes
4	Staff and students attendance monitoring system: Biometric: Attendance Registers:	Regular follow up of biometric as well as Attendance registers.
5	Financial support/leaves for qualification/skill up-gradation:	Faculty members are sanctioned with Registration fees, TA and Academic Leave are also provide for attending conferences and workshops, extra leaves area sanctioned for faculty who undergo for research submission work.



# AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY

(Approved by A.I.C.T.E., New Delhi & Permanently Affiliated to J.N.T.U.K, Kakinada)

NAAC "B++" Accredited Institute

Cherukupally (Village), Near Tagarapuvalasa Bridge, Vizianagaram (Dist) -531162.

www.aietta.ac.in, principal@aietta.ac.in

6	Risk evaluation/safety measures	Maintaining fire extinguishers in all the prominent places of college.
---	---------------------------------	--

## 8. Strengths, weakness and areas of Improvement

### Strengths

- 1) Good faculty retention
- 2) Strong department level support for faculty research activities
- 3) Supportive working environment among department members

### Weakness

- 1) Lack of NRI student attraction
- 2) Poor English speaking capacity of the students.
- 3) Poor socio-economic status of the students.
- 4) There is a need to modernize classrooms with ICT facilities

### Opportunities:

- 1) By establishing stronger relationships with R&D organization.
- 2) Increase of research funding.
- 3) Interdisciplinary growth of core departments
- 4) Opportunity to maximize the potentiality of Centres of Excellence.

### Suggestions for Improvement


To overcome the challenges and improve the quality of education, evaluation can be done on the following factors such as maintenance of infrastructure, pedagogy skills, quality of teacher's education and extra-curricular as well as co-curricular activities

  
HOD BS&H

Sign. of Academic Auditors

  
(Dr.B.Avinash Ben)

Associate Professor, HOD & Dept. of  
Mechanical

  
Mrs. K. Praveena  
Asst.Professor, Dept. of EEE



# AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY

(Approved by A.I.C.T.E., New Delhi & Permanently Affiliated to J.N.T.U.K, Kakinada)

NAAC "B++" Accredited Institute

Cherukupally (Village), Near Tagarapuvalasa Bridge, Vizianagaram (Dist) -531162.

www.aietta.ac.in, principal@aietta.ac.in

## ACADEMIC AUDIT REPORT (2019-2020)

### DEPARTMENT OF MANAGEMENT STUDIES

ACADEMIC YEAR: 2019-2020

II-IV SEMESTERS

DATE OF AUDIT: 30-08-2020

We Dr.A. Chandra Sekhar and Mr. SK.H. Sharief were entrusted to carry out the audit work of Department of Management Studies by the IQAC. The audit work was carried out with the consent and the presence of the Head of the Department and Department coordinators. The overall internal audit report was prepared & drafted based on the Academic Information Including strengths, weakness, and opportunities. The report was duly submitted along with suggestions to the IQAC.

#### 1. COs, POs curriculum

S.NO.	CRITERION	OBSERVATIONS
1	COs and POs attainment	CO's and PO's attainment calculated as per the procedure established by PAC and (Annexure 1.1) is enclosed
2	Stakeholders feedback related to curriculum design	Graduates exit survey; Alumni survey and employer survey, teachers survey are conducted and presented as consolidated as per format. (Annexure 1.2)
3	Action taken on Minutes of Meeting	Incorporated changes as per the suggestions by DAC, PAC and it's Minutes of meeting, Curriculum changes and it's evidences are enclosed (Annexure 1.3)
4	Percentage of Lab component	7%(2/26)-R19 -Two additional experiments are conducted in all labs (Annexure 1.4)
5	Evidence of academic flexibility	1 Open elective+ 4 PE 33%(16/48)- R19 (Annexure 1.5)

#### 2. Faculty information and their contribution

S.NO.	CRITERION	OBSERVATIONS
-------	-----------	--------------



# AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY

(Approved by A.I.C.T.E., New Delhi & Permanently Affiliated to J.N.T.U.K, Kakinada)

NAAC "B++" Accredited Institute

Cherukupally (Village), Near Tagarapuvalasa Bridge, Vizianagaram (Dist) -531162.

www.aietta.ac.in, principal@aietta.ac.in

1	Student teacher ratio	19:1 13 faculty members are assigned to teach for 226 students
2	Faculty cadre ratio Prof : Assoc : Asst	Professors: 0 Associate Professor: 2 Assistant Professors: 11 Annexure: 2.1
3	Faculty qualifications	Doctorates: 1 Ph.D. Pursuing : 0
4	Faculty experience and retention	Annexure 2.2 is enclosed by mentioning the (list of faculty, qualifications, total experience, experience at AIET)
5	Faculty contribution in writing: • Books: • Book chapters:	Books- Nil
6	Faculty in Professional bodies Faculty contributions	Nil
7	Faculty as resource persons in workshops/training activities	Training activities: 2
8	International/national level events organized • Training Programs • workshops/seminars: • FDP's :	Workshops/ seminars: Nil FDP- Nil Annexure 2.3
9	List of conferences/seminars/workshops/FDP's/any exclusive programmes attended for enrichment of teaching-learning process	Conferences: Nil Seminars: Nil Workshops: Nil FDP: 8 Annexure 2.4

### 3. Teaching learning process and evaluation

S.NO.	CRITERION	OBSERVATIONS
1	Student performances Attendance Exams	List of students Detention and condonation are maintained.



# AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY

(Approved by A.I.C.T.E., New Delhi & Permanently Affiliated to J.N.T.U.K, Kakinada)

NAAC "B++" Accredited Institute

Cherukupally (Village), Near Tagarapuvalasa Bridge, Vizianagaram (Dist) -531162.

www.aietta.ac.in, principal@aietta.ac.in

2	Mechanism and activities for slow learners improvements	Slow learners are identified based on performance in Mid-exams. Conducted extra classes for slowlearners
3	Student counseling/mentoring mechanism	20 students are allotted for each faculty member for better improvement of their academic results.
4	Initiatives taken for innovative projects	Nil
5	Review and evaluation of student projects: <ul style="list-style-type: none"> <li>• Best Projects</li> </ul>	5 Best projects are carried as per PRCguidelines Annexure 3.1 Annexure 3.1
6	<ul style="list-style-type: none"> <li>• Monitoring of teaching-learning process</li> <li>• Observation of teaching process in class rooms as per schedule</li> <li>• Tracking of syllabus coverage</li> <li>• Uploading of Lecture notes, question papers of mid and semester end examinations in E-learning portal</li> <li>• verification of evaluated answer papers</li> <li>• checking the quality of mid examinations question papers</li> <li>• Innovative teaching methods presented</li> <li>• Verification of course files</li> <li>• Minutes of class committee meetings and action taken</li> </ul>	<ul style="list-style-type: none"> <li>• Regular visit by the principal</li> <li>• CC surveillance</li> <li>• As per schedule, the coverage of syllabus is strictly followed. by any consequences if there is any lag-on of syllabus extra classes will be conducted</li> <li>• Track sheets are maintained toreview syllabus coverage.</li> <li>• Evaluation of answer papers asper the allotment of marks</li> <li>• Yes, the quality of mid-examquestion papers is regularly checked by exam cell co- Ordinator and the principal.</li> <li>• Interactive way of teaching</li> <li>• Regular verification of Attendance registers as well asthe course files by HOD.</li> <li>• Minutes of meetings are regularly conducted to discuss the matters that are related toTime Tables, academic planning and its facilities provided.</li> </ul>
7	Training programmes conducted forstudents <ul style="list-style-type: none"> <li>• Guest Lectures</li> <li>• Add-on courses</li> </ul>	<ul style="list-style-type: none"> <li>• 1 Guest lectures is conducted forthe students to get aware of some core related subjects, which are presented by eminent</li> </ul>



# AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY

(Approved by A.I.C.T.E., New Delhi & Permanently Affiliated to J.N.T.U.K, Kakinada)

NAAC "B++" Accredited Institute

Cherukupally (Village), Near Tagarapuvalasa Bridge, Vizianagaram (Dist) -531162.

www.aietta.ac.in, principal@aietta.ac.in

	<ul style="list-style-type: none"> <li>• Seminars/workshops</li> <li>• Compliance of department academic calendar</li> </ul>	<p>resource Persons.</p> <ul style="list-style-type: none"> <li>• Add-on Courses: 1 Programs are conducted for students Annexure 3.2</li> </ul>
8	MOU's with industries for internship	Internship with other industries is done
9	Students feedback and follow up action	Needed action is taken up by students' feedback
10	Scope for self learning <ul style="list-style-type: none"> <li>• certificate courses</li> <li>• online courses</li> </ul>	Nil
11	Result analysis and conduct of remedial classes for students with backlogs	Based on the results of mid exams, remedial classes are conducted. Based on the results of main exams, backlog classes are conducted.
12	Placements ---( %):	Placements: 39% out of 105 students
13	Higher studies( %):	Higher Studies: Nil
14	Student development activities: <ul style="list-style-type: none"> <li>• Co-curricular</li> <li>• Extra-curricular activities</li> </ul>	Students are participated in co-curricular extra-curricular activities Annexure 3.4

## 4. Research consultancy and Extension

S.NO.	CRITERION	OBSERVATIONS
1	Faculty Publications in journals: Peer review journals: Thomson Reuters Impact factor journals	Total No. Of Peer review journals: Nil No. SCOPUS/SCI Indexed journals: 1
2	Publications in conferences: National: International:	National: 0 International: 1
3	Percentage of Faculty contributing in Research Publications:	15% Percentage of Faculty contributing in Research Publications:





# AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY

(Approved by A.I.C.T.E., New Delhi & Permanently Affiliated to J.N.T.U.K, Kakinada)

NAAC "B++" Accredited Institute

Cherukupally (Village), Near Tagarapuvalasa Bridge, Vizianagaram (Dist) -531162.

www.aietta.ac.in, principal@aietta.ac.in

4	Ph.D s registered: Submitted: Awarded: Ph.D. guiding/guided	Ph.D s : 1 registered:0 Submitted:0 Awarded:0 Ph.D. guiding/guided:0
5	Funded R&D projects and consultancy works:	Funded R&D projects are done and its evidence is enclosed in Annexure 4.1
6	Incentives for faculty R&D	Incentives for faculty Research publications as per HR policy
7	MOU's with industries/R&D/PremierInstitutes	MOU'S with industries and R&D Annexure: 4.2
8	Research centers of excellence established:	-----
9	Skill development center established	YES, Skill development center established in collaboration with APSSDC

## 5. Infrastructure and Learning resources

S.No	Criterion	Observations
1	Infrastructure facilities to improve teachinglearning process Class rooms: Laboratories: E-class rooms: Seminars: Faculty rooms:	Classrooms:4 Laboratories:1 E-classrooms: 1 Seminar halls: 1 Faculty rooms: 1
2	Internet facility for faculty and students:	Wi-Fi net is enabled
3	Technical and administrative staff support	3 members of Technical and 1membersof administrative support is provided. P. Santhosh---Technical Ch. Shiva ---Technical K. Thapalayya-- administrative Support
4	Department budget: Sanctioned amount: Amount spent:	



# AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY

(Approved by A.I.C.T.E., New Delhi & Permanently Affiliated to J.N.T.U.K, Kakinada)

NAAC "B++" Accredited Institute

Cherukupally (Village), Near Tagarapuvulasa Bridge, Vizianagaram (Dist) -531162.

www.aietta.ac.in, principal@aietta.ac.in

	New equipment added: Maintenance of equipment and consumableregisters in labs	
5	Details of computing facilities and software	Total number of computers:60
6	Dept, Newsletters and Magazine	YES
7	Department level library resources	YES

## 6. Student information support and progression

S.NO	Criterion	Observations
1	Add-on courses	1 Add-on courses are conducted 1. TALLY ERP 9.0
2	Student Publications: Dept. student E- Club:	Student Publications: Nil No. of E-club activities for students:1 Electoral literacy Club
3	Details for coaching provided for GATE/CRT/any other competitiveexaminations	External CRT classes are provided, 200classes for an academic year
4	Industrial visits and Internships	Industrial Visits:2 Internships: Nil

## 7. Governance, Leadership and Management

S.NO.	Criterion	Observations
1	Teaching and non-teaching attended for skilldevelopment programs	Both teaching and non-teaching staff are attended for skill development programs for an academic year 2019-2020
2	MOUs with premier institutions for knowledge exchange	MOU'S And its Annexure7.1



# AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY

(Approved by A.I.C.T.E., New Delhi & Permanently Affiliated to J.N.T.U.K, Kakinada)

NAAC "B++" Accredited Institute

Cherukupally (Village), Near Tagarapuvalasa Bridge, Vizianagaram (Dist) -531162.

www.aietta.ac.in, principal@aietta.ac.in

3	Display of vision, mission and quality objectives at prominent places	Yes
4	Staff and students' attendance monitoring system: -Biometric: Attendance Registers:	Regular follow up of biometric as well as Attendance registers.
5	Financial support/leaves for qualification/skill up-gradation:	Faculty members are sanctioned with Registration fees, TA and Academic Leave are also provide for attending conferences and workshops, extra leaves area sanctioned for faculty who undergo for research submission work.
6	Risk evaluation/safety measures	Maintaining fire extinguishers in all the prominent places and needed corners of college.

## 8. Strengths, weakness and areas of Improvement Strengths

- 1) Good faculty retention
- 2) Research and Development
- 3) More number of student placements cell
- 4) Strong department level support for faculty research activities
- 5) Supportive working environment among department members

### Weakness

- 1) Lack of Other state student attraction
- 2) Poor English-speaking capacity of the students.
- 3) Poor socio-economic status of the students.
- 4) There is a need to modernize classrooms with ICT facilities

### Opportunities:

- 1) By establishing stronger relationships with R&D organization.
- 2) Increase of research funding.
- 3) Interdisciplinary growth of core departments



# AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY

(Approved by A.I.C.T.E., New Delhi & Permanently Affiliated to J.N.T.U.K, Kakinada)

NAAC "B++" Accredited Institute

Cherukupally (Village), Near Tagarapuvalasa Bridge, Vizianagaram (Dist) -531162.

www.aietta.ac.in, principal@aietta.ac.in

4) Opportunity to maximize the potentiality of Centres of Excellence.

## Suggestions for Improvement

To overcome the challenges and improve the quality of education, evaluation can be done on the following factors such as maintenance of infrastructure, pedagogy skills, quality of teacher's education and extra-curricular as well as co-curricular activities.

*V. Sai Prasanth*

**HOD-MBA**

Head of the Department  
Master of Business Administration  
AVANTHI INSTITUTE OF ENGG. & TECH.  
Cherukupally (V), Near Tagarapuvalasa Bridge  
Bhogapuram (M), Vizianagaram (D)-531162

**Sign. of Academic Auditors**

*A*  
Dr. A. Chandra Sekhar  
Professor, Dept. of CSE

*SKH*  
Mr. SK.H. Sharief  
Associate Professor, Dept. of MECH



# AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY

(Approved by A.I.C.T.E., New Delhi, & Permanently Affiliated to J.N.T.U.K., Kakinada)

NAAC B++ Accredited Institute

Cherukupally (Village), Near Tagarapavalasa Bridge, Vizianagaram -531162.

www.aietta.ac.in, [principal@aietta.ac.in](mailto:principal@aietta.ac.in)

## Over All Action Taken Report on Department wise Academic and Administrative Audit for Semester-I in the academic year 2019-2020

As per the IQAC decision, Dr. Gandhi Satyanarayana, issued a circular on 11-12-2019 and allocated responsibilities department wise to the below mentioned audit members. The auditors carried out the audit works successfully with the support of head's of departments and submitted the report to the IQAC Co-ordinator. Based on the reports issued by the auditors, the IQAC Co-ordinator Developed an overall action taken report and submitted it to the principal..

S.NO.	NAME OF THE DEPARTMENT	AUDIT MEMBERS
1	Computer Science and Engineering	SEM -I Dr. B. Avinash Ben Mrs. K. Praveena
2	Electronics and Communication Engineering	SEM -I Dr. B. Avinash Ben Mrs. K. Praveena
3	Electrical and Electronics Engineering	SEM -I Dr. R. Swapana Mr. A. Vasudeva Rao
4	Mechanical Engineering	SEM -I Dr.A.Chandra sekhar Mr.V.Siva Baskarao
5	Civil Engineering	SEM -I Dr.A.Chandrasekhar Mrs. K.Syamala.
6	Basic Sciences and Humanities	Dr.B.AvinashBen Mrs.K.Praveena
7	Master of Business Administration	SEM-I Dr.R.Swapana Mrs. K. Syamala

### I.CO POs curriculum

#### 1. COs and POs attainment:

- The COs and POs attainment as per the procedure established by observing, R16, R19 regulations.
- As per the observation of the Audit committee, it is suggested to CSE department to regularly conduct academic activities to strengthen PO 11 and the remaining POs and PSO s have attained the target .
- In the same way, suggestions are given to EEE department to strengthen PO2. The students



# AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY

(Approved by A.I.C.T.E., New Delhi, & Permanently Affiliated to J.N.T.U.K., Kakinada)

NAAC B++ Accredited Institute

Cherukupally (Village), Near Tagarapuvalasa Bridge, Vizianagaram -531162.

[www.aietta.ac.in](http://www.aietta.ac.in), [principal@aietta.ac.in](mailto:principal@aietta.ac.in)

---

should be given more tutorials and assignments. Remedial classes should be conducted to them and they should be given more exposure to problem solving tasks.

- Suggestions have been made to the Mechanical Department to strengthen PO 5- more number of classes/ laboratory sessions are to be conducted to sharpen the programming skills of students and encourage them to do project works by using modern tools.
- It is suggested by the audit committee to the ECE Department to strengthen PO8 by conducting special academic sessions.
- The PO 3 and PO5 attainment of the MBA Department is to be improved by organizing lectures and classes by experts as per the suggestions of the audit committee.

## 2. Stakeholder's feedback related to curriculum design:

- The audit committee has suggested Maximizing the exposure of CSE students to new technologies based on the feedback of Alumni. The committee has further suggested that students should develop their communication skills to face the competition and be educated about sustainability.
- The audit committee has suggested ECE students should develop their awareness on using research methods to interpret the data in developing micro-computer and IOT devices.
- The audit committee has suggested that Civil students need be trained on how to use research based knowledge in their domain.

The audit committee has come up with the suggestion to provide more exposure to industry needs and latest technologies for the Management students through value-added courses.

## 3. Action taken on Minutes of Meeting:

- Audit members were suggested to discuss some points and those points are to be implemented with its evidences for incorporate curriculum changes and advised to take required action.
- For CSE department I sem, PAC group is not implemented in full pledged manner, in some issues like Activates leading to Quality improvement. so advised to implement in full pledged way and also, we found some lag of Add-on Courses, Course file Verification.
- For ECE, EEE department, it is observed that some prospectus are not implemented, so suggested to improve Faculty Research and publications and participations in FDPs, seminars, workshops etc.



# AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY

(Approved by A.I.C.T.E., New Delhi, & Permanently Affiliated to J.N.T.U.K., Kakinada)

NAAC B++ Accredited Institute

Cherukupally (Village), Near Tagarapuvalasa Bridge, Vizianagaram -531162.

www.aietta.ac.in, [principal@aietta.ac.in](mailto:principal@aietta.ac.in)

## 4. Academic Flexibility:

It is observed that there should be more academic flexibility for R16 final years, and for R19 1<sup>st</sup>, 2<sup>nd</sup> and 3<sup>rd</sup> years. The students should be given enough choice to choose elective subjects. The department has to allot faculty members to teach the electives. The electives should enable the promotion of advanced learning.

## II. Faculty information and their contribution:

As per department level, we are audit committee, audited department level of faculty details and we observed the following details:

1. **Faculty experience and retention:** The eligible faculties with their deserved qualifications by different cadres of Assistant, Associate, and Professor Levels are appointed and further suggested to initiate the research works by registering Ph.D. in all the departments, to follow the regulations needed for student, teacher ratio.

- **CSE department: Faculty Availability: 29 Requirement: 0**
- **ECE department: Faculty Availability: 32 Requirement: 0**
- **Mech department: Faculty Availability: 31 Requirement: 0**
- **EEE department: Faculty Availability: 17 Requirement: 0**
- **CIVIL department: Faculty Availability :10 Requirement: 0**
- **BS&H department: Faculty Availability: 26 Requirement: 2**
- **MBA department: Faculty Availability: 13 Requirement: 0**

**Action taken:** It is found that BS& H ,is lag of faculty of at least 2 members, so action plan is taken to recruit new faculty for next academic year, but the remaining departments have sufficient faculty, IQAC committee suggested to all the departments to enroll in research work for further improvement of higher degree.

2. **Faculty contribution in writing:** The committee has found that the faculty members of Civil, MBA, Basic Sciences, EEE, ECE departments are unpublished and lack research exposure. So, the committee has made a suggestion that the faculty members have to actively pursue research work and publish books. The research work and publishing of books could enhance the knowledge and exposure of the faculty members, as per the opinion of the committee.



# AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY

(Approved by A.I.C.T.E., New Delhi, & Permanently Affiliated to J.N.T.U.K., Kakinada)

NAAC B++ Accredited Institute

Cherukupally (Village), Near Tagarapuvalasa Bridge, Vizianagaram -531162.

[www.aietta.ac.in](http://www.aietta.ac.in), [principal@aietta.ac.in](mailto:principal@aietta.ac.in)

**3. Faculty as resource persons in workshops/training activities:** It was found that, different training Programs, seminars, conferences, workshops, are conducted by all the core department faculties but found to be lag in civil , as the resource persons, so action plan is proposed to support research development for further innovative skills.

- **CSE:** 1 Faculties are initiated as the resource persons for 1 Training programs
- **ECE:** Only one Faculty is initiated as the resource person for Training programs
- **MECH:** 1 Faculties are initiated as the resource persons for 1 Training programs
- **EEE:** Not conducted
- **CIVIL:** No Faculty is initiated as the resource person for Training programs
- **BS&H:** Only one Faculty is initiated as the resource person for Training program
- **MBA:** Not conducted

**Action taken:** The IQAC committee members are given an advice to EEE, MBA Department to conduct Training programs for non-teaching

### III. Teaching learning process and evaluation:

- 1. Student performances, Attendance, Exams:** The performances as well as attendance of students are monitored in semester wise regularly, based on that, the condonation lists and detention lists are maintained, we found to be satisfactory to improve the results.
- 2. Mechanism and activities for slow learner's improvements:** Slow learners are identified in some departments such as EEE, CSE, Mechanical, ECE, so by verifying the documents supported, we advised to conduct extra-remedial and tutorial classes for them.
- 3. Student counseling/mentoring mechanism:** The committee has suggested a student mentorship program for every twenty students, with a faculty mentor guiding them through all their academic and personal challenges for better outcomes.
- 4. Review and evaluation of student projects:** By following the Performa of IQAC committee, best projects are initiated as per PRC guidelines by creating a corpus fund to support research activity, so it is satisfactory to some extent and we suggested the institution to provide best research facilities for further initiation of innovative projects.





# AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY

(Approved by A.I.C.T.E., New Delhi, & Permanently Affiliated to J.N.T.U.K., Kakinada)

NAAC B++ Accredited Institute

Cherukupally (Village), Near Tagarapuvalasa Bridge, Vizianagaram -531162.

[www.aietta.ac.in](http://www.aietta.ac.in), [principal@aietta.ac.in](mailto:principal@aietta.ac.in)

- 5. Teaching-learning process:** The Teaching-learning process has to be augmented through new insights and adopting better tools. As per the observation of the IQAC committee, the teaching- learning process has been found to be efficient through lectures, case studies, class room participation, assignments, debates among teams on subjects, and by using audio visual teaching. It has been found that the best practices of providing course material to the students of all the departments are satisfactory.
- 6. Monitoring of teaching process:** Monitoring process is found to be done by regular visits of the principal, through CC surveillance, and the syllabus coverage is tracked by maintaining track sheets. The evaluation of answer papers, the allotment of marks and the quality of mid-exam question papers is regularly checked by exam cell coordinator and the Principal. So, the report has found it satisfactory.
- 7. Result analysis:** The percentage of III/I results is found to be low in the departments of CIVIL, CSE, EEE. So further step is advised in the form of conducting remedial classes to improve the results for next academic semester.

BRANCH	STRENGTH	PASS	FAIL	PASS %
CIV	35	19	16	54.29
EEE	47	19	28	40.43
MECH-A	51	15	36	29.41
MECH-B	53	15	38	28.30
MECH-C	58	14	44	24.14
ECE	68	29	39	42.65
CSE-A	37	23	14	62.16
CSE-B	45	29	16	64.44



# AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY

(Approved by A.I.C.T.E., New Delhi, & Permanently Affiliated to J.N.T.U.K., Kakinada)

NAAC B++ Accredited Institute

Cherukupally (Village), Near Tagarapuvalasa Bridge, Vizianagaram -531162.

[www.aietta.ac.in](http://www.aietta.ac.in), [principal@aietta.ac.in](mailto:principal@aietta.ac.in)

8. **MOU's with industries for internship:** As we found that there are only few MOU's in departments such as EEE, CIVIL, MBA, so we suggested enhance the number of MOU'S.
9. **Student's feedback and follow up action:** On the basis feedback given by the students, it was decided to make the teaching process more practical oriented. So, in audit report, we noted that there is lag of taking feedback in EEE and CIVIL departments, so we suggested maintaining the student's feedback and follow up action.

## IV. Research consultancy and Extension:

1. **Promotion of Research:** It is found that the faculty members have no publications in peer review journals. The contribution of faculty members to research publications has been found to be zero in Civil, ECE, BS&H, MBA, EEE departments. The institute is ready to contribute in every way to promote research activity among the faculty. So, the faculty members are advised to take up research activity more seriously.
2. **Funded R&D projects and consultancy works:** It's pleasure to note that the institute takes care of complete patent filing process as per national/international IPR guidelines & policies. R&D cell provides necessary eco-system/conducive- environment with infrastructure/expert support to staff to take-up in R&D consultancy and innovation. So, Staff of all the departments is suggested to be responsible for various R&D projects.
3. **Incentives for faculty R&D:** It is satisfactory as the institute encourages the faculty, to enhance the research, by providing incentives for peer reviewed publications, consultancy works, writing books and filing up the patents.
4. **MOU's with industries/R&D/Premier Institutes:** In this academic year, 21 MoU's with other institutes which are collaborated in a satisfactory note, to evolve a mutually productive framework between R&D and academia to spur the design & development for exchange of knowledge and skill amongst students, faculty and researchers right from the stage of ideation and conceptualization.

**Action Taken:** Further, the institution is planned for some more MOU's for extensive utilization of knowledge in the next academic year.

**Research centers of excellence established:** It is identified that the Research Centre are motivated to focus on new and emerging technologies, multidisciplinary and translational research relevant to national development goals.



# AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY

(Approved by A.I.C.T.E., New Delhi, & Permanently Affiliated to J.N.T.U.K., Kakinada)

NAAC B++ Accredited Institute

Cherukupally (Village), Near Tagarapuvalasa Bridge, Vizianagaram -531162.

[www.aietta.ac.in](http://www.aietta.ac.in), [principal@aietta.ac.in](mailto:principal@aietta.ac.in)

- 5. Skill development center established:** The institution is suggested to entrust with the mission of producing systematically trained instructors to meet the huge demand of various Industrial training. For next academic year, further action is taken to implement skill development courses for upcoming aspires.

## V. Infrastructure and Learning resources

- 1. Infrastructure facilities to improve teaching learning process:** New classrooms and laboratories with modern facilities have been set-up to aid the teaching-learning process. As per the audit report, the Institute has a well-planned library and internet facility to cater to the needs of research scholars, with a facility of Online journal/E- content journals that are available during the library timings. The faculty members and students are advised to make good use of the infrastructure for a better output. So, it is found to be satisfactory.
- 2. Internet facility for faculty and students:** It is found that, College is having 150 Mbps Internet connections and connected through Wi-Fi also to the central server are available for students for their project work and preparing seminar presentations. It also accesses to e- books, study materials, previous question papers daily circulars. Further action is taken for the well-equipped internet lab, providing high speed of connectivity the student can surf the net together unlimited information
- 3. Technical and administrative staff support:** Technical and Administrative staff works in office support positions to perform a variety of office tasks. The institution proposed to appoint some more technical staff and lab assistants in ECE, EEE departments for smooth handling of office tasks.
- 4. Department budget:** For budget and planning purposes, academic department activity typically occurs in their concerned department for managing the funds. So, it is flexible to enrich the needed sources.
- 5. Details of computing facilities and software:** It is proposed to provide open source computing platform for the students, staff and faculty in the departments of EEE, ECE and CIVIL of this Institute by providing support for conducting academic labs, training programs, short term courses and technical workshops.



# AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY

(Approved by A.I.C.T.E., New Delhi, & Permanently Affiliated to J.N.T.U.K., Kakinada)

NAAC B++ Accredited Institute

Cherukupally (Village), Near Tagarapuvalasa Bridge, Vizianagaram -531162.

[www.aietta.ac.in](http://www.aietta.ac.in), [principal@aietta.ac.in](mailto:principal@aietta.ac.in)

## VI. Student information support and progression

- 1. Add-on courses:** It is found that, the objective of these courses is to provide an opportunity to do employment-oriented skill-based courses. So, in coming academic year, the number of Add-on-courses of all the departments, especially MBA is to be increased. Further action is taken to ensure practical training, in its quality of skill-oriented manner and to aim at the development of skills for entrepreneurship.
- 2. Governance and Leadership and management**  
**Industrial visits and Internships:** The industrial visit has its own importance in a career. The industrial visit has its own importance in a career of a student as a part of college curriculum. So, it is satisfactory, that the institution is aimed further to improve the theoretical knowledge for the successful professional career by going beyond academics with a practical perspective of the workplace.
- 3. Teaching and non-teaching attended for skill development programs:** It is found that, the institution has effective welfare measures for all the staff members. The institution conducts quality improvement programs for faculty and training programs for non-teaching staff periodically. In order to improve the qualification of EEE, Civil departments, the institution initiated some enhancing programs to update their knowledge and faculty members are given academic leave or special leave to attend FDPS, workshops /Seminars/ Conferences/Industrial training programs organized by premier institutions.
- 4. Display of vision, mission and quality objectives at prominent places:** To impart quality education to the students coming from rural areas, some suggestions are given to enhance the academic as well as extension activities, curricular and co-curricular activities are conducted.
- 5. Staff and students attendance monitoring system:** Regular follow up of biometric as well as Attendance registers are maintained and found to have regular monitoring systems, further action is to be taken to improve the surveillance methods.
- 6. Financial support/leaves for qualification/skill up-gradation:** After verifying all the departments, the external and internal provisions such as financial incentives and leave facility are provided for the faculty in a full-pledged way, for upgrading their qualification and pursue research activities. The faculty members are encouraged to pursue research and upgrade their skills by promising better pay and working terms. The seed money for research activity is provided with the collaboration of the affiliated university. It has been suggested to extend the period of required maternity leave.



# AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY

(Approved by A.I.C.T.E., New Delhi, & Permanently Affiliated to J.N.T.U.K., Kakinada)

NAAC B++ Accredited Institute

Cherukupally (Village), Near Tagarapuvulasa Bridge, Vizianagaram -531162.

[www.aietta.ac.in](http://www.aietta.ac.in), [principal@aietta.ac.in](mailto:principal@aietta.ac.in)

**7. Risk evaluation/safety measures:** It is found that, fire extinguishers are maintained in all the prominent places and needed corners of college and still further action was taken for improvement.

Coordinator of IQAC

**COORDINATOR, IQAC**

**AVANTHI INSTITUTE OF ENGG. & TECH.**

Cherukupally (V), Near Tagarapuvulasa Bridge  
Bhogapuram (M), Vizianagaram (D)-531162

Principal

**PRINCIPAL**

**AVANTHI INSTITUTE OF ENGG. & TECH**

Cherukupally (V), Chittivalasa (SAO)

Bhogapuram (M),

Vizianagaram (Dist.)-531162



# AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY

(Approved by A.I.C.T.E., New Delhi & Permanently Affiliated to J.N.T.U.K, Kakinada)

NAAC "B++" Accredited Institute

Cherukupally (Village), Near Tagarapuvalasa Bridge, Vizianagaram (Dist) -531162.

www.aietta.ac.in, [principal@aietta.ac.in](mailto:principal@aietta.ac.in)

## CIRCULAR

### Internal Quality Assurance Cell (IQAC)

#### ACADEMIC AUDIT (2019-2020)

Date: 11-12-2019

From

The coordinator of IQAC

Avanthi Institute of Engineering and

Technology

Cherukupally ,Near

TagarapuvalasaBridgeVizianagaram-531162

To

The Principal

Avanthi Institute of Engineering and

Technology

Cherukupally, Near Tagarapuvalasa

BridgeVizianagaram-531162

Sir/Madam

Sub: Requisition to all the IQAC members to audit the department wise academic audit work and submit to IQAC.

The members are informed to conduct the academic audit report for the academic year 2022-2023 as per the team given below and as per the schedule from 20<sup>th</sup> to 31<sup>st</sup>Dec 2019.On behalf of IQAC, I request the Principal to assign HOD's for cooperating the academic audit work with team members.

S.NO.	NAME OF THE DEPARTMENT	AUDIT MEMBERS	DATE
1	Computer science and engineering	SEM -I Dr. B. Avinash Ben Mrs. K. Praveena	20-12-2019
2	Electronics And communication engineering	SEM -I Dr. B. Avinash Ben Mrs. K. Praveena	24-12-2019
3	Electrical and electronics engineering	SEM -I	31-12-2019



# AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY

(Approved by A.I.C.T.E., New Delhi & Permanently Affiliated to J.N.T.U.K, Kakinada)

NAAC "B++" Accredited Institute

Cherukupally (Village), Near Tagarapuvalasa Bridge, Vizianagaram (Dist) -531162.

[www.aietta.ac.in](http://www.aietta.ac.in), [principal@aietta.ac.in](mailto:principal@aietta.ac.in)

		Dr. R. Swapana Mr. A. Vasudeva Rao	
4	Mechanical engineering	SEM -I Dr.A.Chandrasekhar Mr.V.Siva Baskarao	23-12-2019
5	Civil engineering	SEM -1 Dr.A.Chandrasekhar Mr.A.Vasudeva Rao	27-12-2019
6	Master of business administration	SEM-I Dr.R.Swapana Mrs. K. Syamala	30-12-2019

Copy to:

The Principal

All the Department

H.O.D's

The Members of

IQAC

Principal

IQAC Coordinator



# AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY

(Approved by A.I.C.T.E., New Delhi & Permanently Affiliated to J.N.T.U.K, Kakinada)

NAAC "B++" Accredited Institute

Cherukupally (Village), Near Tagarapuvalasa Bridge, Vizianagaram (Dist) -531162.

www.aietta.ac.in, principal@aietta.ac.in

## ACADEMIC AUDIT REPORT (2019-2020)

### DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

Academic Year: 2019-2020

I SEMESTER

Date of Audit: 20-12-2019

We, Dr . B. Avinash Ben and Mrs. K. Praveena were entrusted to carry out the audit work of Department of Computer Science and Engineering by the IQAC. The audit work was carried out with the consent and the presence of the Head of the Department and Department coordinators. The overall internal audit report was prepared & drafted based on the Academic Information Including strengths, weakness, and opportunities. The report was duly submitted along with suggestions to the IQAC.

#### 1. COs, POs curriculum

S.NO.	CRITERION	OBSERVATIONS
1	COs and POs attainment	CO's and PO's attainment calculated as per the procedure established by PAC and (Annexure 1.1) is enclosed
2	Stakeholders feedback related to curriculum design	Graduates exit survey; Alumni survey and employer survey, teachers survey are conducted and presented as consolidated as per format. (Annexure 1.2)
3	Action taken on Minutes of Meeting	Incorporated changes as per the suggestions by DAC, PAC and it's Minutes of meeting, Curriculum changes and it's evidences are enclosed (Annexure 1.3)
4	Percentage of Lab component	15.78%(3/19) - R19 21.53% (14/65) -R16 M.Tech 22.22%(4/18)-R19 -Two additional experiments are conducted in all labs (Annexure 1.4)
5	Evidence of academic flexibility	2 Core electives 27.27%(6/22) -R16 M.Tech 2 core elective+1 open elective 17.64% (12/68)-R19 (Annexure 1.5)





# AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY

(Approved by A.I.C.T.E., New Delhi & Permanently Affiliated to J.N.T.U.K, Kakinada)

NAAC "B++" Accredited Institute

Cherukupally (Village), Near Tagarapuvalasa Bridge, Vizianagaram (Dist) -531162.

www.aietta.ac.in, principal@aietta.ac.in

## 2. Faculty information and their contribution

S.NO.	CRITERION	OBSERVATIONS
1	Student teacher ratio	19:1 29 faculty are assigned to teach for 297 students
2	Faculty cadre ratio Prof : Assoc : Asst	Professors: 4 Associate Professor: 2 Assistant Professors: 23 Annexure:2.1
3	Faculty qualifications	Doctorates : 4 Ph.D. Pursuing :2 M.Tech: 23
4	Faculty experience and retention	Annexure 2.2 is enclosed by mentioning the (list of faculty, qualifications, total experience, experience at AIET)
5	Faculty contribution in writing: --Books: --Book chapters:	Books: 1
6	Faculty in Professional bodies Faculty contributions	1 faculty members are enrolled in Professional bodies and its evidence is enclosed in annexure 2.3
7	Faculty as resource persons in workshops/training activities	Training and Programs: 1 Annexure 2.4
8	International/national level events organized -- Training Programs --workshops/seminars: --FDP's :	FDP's : NIL
9	List of conferences/seminars/workshops /FDP's/any exclusive programmes attended for enrichment of teaching-learning process	Conferences:NIL Seminars: NIL Workshops: NIL FDP's: 20



# AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY

(Approved by A.I.C.T.E., New Delhi & Permanently Affiliated to J.N.T.U.K, Kakinada)

NAAC "B++" Accredited Institute

Cherukupally (Village), Near Tagarapuvalasa Bridge, Vizianagaram (Dist) -531162.

www.aietta.ac.in, principal@aietta.ac.in

## 3. Teaching learning process and evaluation

S.NO.	CRITERION	OBSERVATIONS
1	Student performances Attendance Exams	List of students Detention and condonation are maintained.
2	Mechanism and activities for slow learners improvements	Slow learners are identified based on performance in Mid-exams. Conducted extra classes for slow learners
3	Student counselling/mentoring mechanism	20 students are allotted for each faculty member for better improvement of their academic results.
4	Initiatives taken for innovative projects	Nil
5	Review and evaluation of student projects: ---Best Projects	5 Best projects are carried as per PRC guidelines Annexure 3.1
6	Monitoring of teaching-learning process --Observation of teaching process in class rooms as per schedule ---Tracking of syllabus coverage  --Uploading of Lecture notes, question papers of mid and semester end examinations in E-learning portal  ---verification of evaluated answer papers  ---checking the quality of mid examinations question papers  ---Innovative teaching methods presented	<ul style="list-style-type: none"> <li>• Regular visit by the principal</li> <li>• CC surveillance</li> </ul> <p>As per schedule, the coverage of syllabus is strictly followed. by any consequences if there is any lag-on of syllabus extra classes will be conducted</p> <ul style="list-style-type: none"> <li>• Track sheets are maintained to review syllabus coverage.</li> <li>• Evaluation of answer papers as per the allotment of marks</li> <li>• Yes, the quality of mid-exam question papers is regularly checked by exam cell co-ordinator and the Principal.</li> <li>• Interactive way of teaching</li> <li>• Regular verification of Attendance registers as well as the course files by HOD.</li> <li>• Minutes of meetings are regularly conducted to</li> </ul>



# AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY

(Approved by A.I.C.T.E., New Delhi & Permanently Affiliated to J.N.T.U.K, Kakinada)

NAAC "B++" Accredited Institute

Cherukupally (Village), Near Tagarapuvalasa Bridge, Vizianagaram (Dist) -531162.

www.aietta.ac.in, principal@aietta.ac.in

	<p>---Verification of course files ---Minutes of class committee meetings and action taken</p>	<p>discuss the matters that are related to Time Tables, academic planning and its facilities provided</p>
7	<p>Training programmes conducted for students ---Guest Lectures ---Add-on courses ---Seminars/workshops ---Compliance of department academic calendar</p>	<ul style="list-style-type: none"> <li>• 3 Guest lectures, Seminars are conducted for the students to get aware of some core related subjects, which are presented by eminent resource Persons.</li> <li>• Add-on Courses:2 Programs are conducted for students : Annexure 3.2</li> </ul>
8	<p>MOU's with industries for internship</p>	<p>Internship with other industries are done.</p>
9	<p>Students feedback and follow up action</p>	<p>Needed action is taken up by students feedback</p>
10	<p>Scope for self learning ---certificate courses ---online courses</p>	<p>Faculty members were very instrumental in designing and developing 2 Add- on and Certificate course programs.</p>
11	<p>Result analysis and conduct of remedial classes for students with backlogs</p>	<ul style="list-style-type: none"> <li>• Based on the results of mid exams, remedial classes are conducted .</li> <li>• Based on the results of main exams, backlog classes are conducted. Result Analysis Annexure 3.3</li> </ul>
12	<p>Placements ---( %): Industries/organizations:</p>	<p>NA</p>
13	<p>Higher studies(%): --Institutions:</p>	<p>4students are progressed for higher studies. Dubba Naveen Kumar in MTech Adusumilli Nitisha in MS Chandravamsam Sai Surya Tejaswini in MS Bulusu Satya Sai Rama Gopala Sai Harsha in MS</p>
14	<p>Student development activities: ---Co-curricular ---Extra-curricular activities</p>	<p>Students are participated both in co-curricular and extra-curricular activities Annexure 3.6</p>



# AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY

(Approved by A.I.C.T.E., New Delhi & Permanently Affiliated to J.N.T.U.K, Kakinada)

NAAC "B++" Accredited Institute

Cherukupally (Village), Near Tagarapuvalasa Bridge, Vizianagaram (Dist) -531162.

www.aietta.ac.in, principal@aietta.ac.in

## 4. Research consultancy and Extension

S.No	Criterion	Observations
1	Faculty Publications in journals: Peer review journals: Thomson Reuters Impact factor journals	Total No. Of Peer review journals: 2 No. SCOPUS/SCI Indexed journals :Nil
2	Publications in conferences: National: International:	National:1 International: 1
3	Percentage of Faculty contributing in Research Publications:	2.5 Percentage of Faculty contributing in Research Publications
4	Ph.D s registered: Submitted: Awarded: Ph.D. guiding/guided	Registered:--3 Submitted: --Nil Awarded: Nil Guiding/guided: Nil
5	Funded R&D projects and consultancy works:	Funded R&D projects done and its Evidences are enclosed Annexure 4.1
6	Incentives for faculty R&D	Incentives for faculty Research publications as per HR policy
7	MOU's with industries/R&D/Premier Institutes	MOU's with industries and R&D annexure:4.2
8	Research centers of excellence established:	Recognized as JNTUK Research center of excellence for the academic year 2019-2020



# AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY

(Approved by A.I.C.T.E., New Delhi & Permanently Affiliated to J.N.T.U.K, Kakinada)

NAAC "B++" Accredited Institute

Cherukupally (Village), Near Tagarapavalasa Bridge, Vizianagaram (Dist) -531162.

www.aietta.ac.in, principal@aietta.ac.in

9	Skill development center established	YES, Skill development center established in collaboration with APSSDC
---	--------------------------------------	--

## 5. Infrastructure and Learning resources

S.No	Criterion	Observations
1	Infrastructure facilities to improve teaching learning process Class rooms: Laboratories: E-class rooms: Seminars: Faculty rooms:	Classrooms:16 Laboratories:5 E-classrooms: 1 Seminar halls: 2 Faculty rooms: 4
2	Internet facility for faculty and students:	Wi-Fi net is enabled
3	Technical and administrative staff support	4 members of Technical and 1 members of administrative support is provided. P. Santhosh---Technical Ch. Shiva---- Technical K. Thalupulayya-- Technical T. Srinu--- Administrative support
4	Department budget: Sanctioned amount: Amount spent: New equipment added: Maintenance of equipment and consumable registers in labs	
5	Details of computing facilities and software	Total number of computers: 330 List of softwares: Windows7, Windows10, office-2007, oracle-10g, Rational Rose, TURBO C++, JDK, TURBO C, ORACLE 10G, Python
6	Dept, Newsletters and Magazine	Yes



# AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY

(Approved by A.I.C.T.E., New Delhi & Permanently Affiliated to J.N.T.U.K, Kakinada)

NAAC "B++" Accredited Institute

Cherukupally (Village), Near Tagarapavalasa Bridge, Vizianagaram (Dist) -531162.

www.aietta.ac.in, principal@aietta.ac.in

7	Department level library resources	Yes
---	------------------------------------	-----

## 6. Student information support and progression

S. NO	Criterion	Observations
1	Add-on courses	Add-on courses conducted:2 <ul style="list-style-type: none"><li>• Python Programming</li><li>• Web Page Development using HTML &amp; PHP</li></ul>
2	Student Publications: Dept. student E-Club:	Student Publications: Nil No. of E-club activities for students: 2 <ul style="list-style-type: none"><li>• Iot club</li><li>• Electoral literacy club</li></ul>
3	Details for coaching provided for GATE/CRT/any other competitive examinations	External CRT classes are provided, 200 classes for an academic year
4	Industrial visits and Internships	

## 7. Governance, Leadership and Management

S.NO	Criterion	Observations
1	Teaching and non-teaching attended for skill development programs	Both teaching and non-teaching staff are attended for skill development programs for an academic year 2019-2020
2	MOUs with premier institutions for knowledge exchange	MOUs And its Annexure 7.1
3	Display of vision, mission and quality objectives at prominent places	Yes
4	Staff and students attendance monitoring	Regular follow up of biometric as well as Attendance registers.



# AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY

(Approved by A.I.C.T.E., New Delhi & Permanently Affiliated to J.N.T.U.K, Kakinada)

NAAC "B++" Accredited Institute

Cherukupally (Village), Near Tagarapuvalasa Bridge, Vizianagaram (Dist) -531162.

www.aietta.ac.in, principal@aietta.ac.in

	system: -Biometric: Attendance Registers:	
5	Financial support/leaves for qualification/skill up-gradation:	Faculty members are sanctioned with Registration fees, TA and Academic Leave are also provide for attending conferences and workshops, extra leaves area sanctioned for faculty who undergo for research submission work.
6	Risk evaluation/safety measures	Maintaining fire extinguishers in all the prominent places and needed corners of college.

## 8. Strengths, weakness and areas of Improvement

### Strengths

- 1) Good faculty retention
- 2) Strong department level support for faculty research activities
- 3) More number of student placements
- 4) Supportive working environment among department members
- 5) Research and Development cell

### Weakness

- 1) Lack of NRI student attraction
- 2) Poor English speaking capacity of the students.
- 3) Poor socio-economic status of the students.
- 4) There is a need to modernise classrooms with ICT facilities



# AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY

(Approved by A.I.C.T.E., New Delhi & Permanently Affiliated to J.N.T.U.K, Kakinada)

NAAC "B++" Accredited Institute

Cherukupally (Village), Near Tagarapuvatalasa Bridge, Vizianagaram (Dist) -531162.

www.aietta.ac.in, principal@aietta.ac.in

## Opportunities:

- 1) By establishing stronger relationships with R&D organization.
- 2) Increase of research funding.
- 3) Interdisciplinary growth of core departments
- 4) Opportunity to maximize the potentiality of Centres of Excellence.

## Suggestions for Improvement

To overcome the challenges and improve the quality of education, evaluation can be done on the following factors such as maintenance of infrastructure, pedagogy skills, quality of teacher's education and extra-curricular as well as co-curricular activities.

HOD-CSE

**Head of the Department**  
**Computer Science and Engineering**  
**AVANTHI INSTITUTE OF ENGG. & TECH.**  
Cherukupally (V), Chittivalasa (SAO),  
Bhogapuram (M), Vizianagaram (D)531162

**COORDINATOR, IQAC**  
**AVANTHI INSTITUTE OF ENGG. & TECH.**  
Cherukupally (V), Near Tagarapuvatalasa Bridge  
Bhogapuram (M), Vizianagaram (D)-531162

Sign. of Academic Auditors

*B. Avinash*  
Dr . B. AvinashBen  
Assoc.Prof & HOD of MECH

*K. Praveena*  
Mrs.K.Praveena  
Asst. Prof. Dept of EEE





# AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY

(Approved by A.I.C.T.E., New Delhi & Permanently Affiliated to J.N.T.U.K., Kakinada)

NAAC "B++" Accredited Institute

Cherukupally (Village), Near Tagarapuvalasa Bridge, Vizianagaram (Dist) -531162.

www.aietta.ac.in, principal@aietta.ac.in

## ACADEMIC AUDIT REPORT (2019-2020)

### DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

AY: 2019-2020

I SEM

Date of Audit: 24-12-2019

We, Dr. R. Swapna and Mr. A. Vasudeva Rao were entrusted to carry out the audit work of Department of Electrical and Electronics Engineering by the IQAC. The audit work was carried out with the consent and the presence of the Head of the Department and Department coordinators. The overall internal audit report was prepared & drafted based on the Academic Information Including strengths, weakness, and opportunities. The report was duly submitted along with suggestions to the IQAC.

#### 1. COs, POs Curriculum

S.NO.	CRITERION	OBSERVATIONS
1	COs and POs attainment	CO's and PO's attainment calculated as per the procedure established by PAC and (Annexure 1.1) is enclosed
2	Stakeholders feedback related to curriculum design	Graduates exit survey; Alumni survey and employer survey are conducted and presented as consolidated as per format. (Annexure 1.2)
3	Action taken on Minutes of Meeting	Incorporated changes as per the suggestions by DAC, PAC and its Minutes of meeting, Curriculum changes and its evidences are enclosed (Annexure 1.3)
4	Percentage of Lab component	23.5%(4.5/19) in R19 21.5%(14/65) in R16 M.TECH 22.22(4/18)1-1 in R19-PS 22.22(4/18)1-1 in R19-PE -Two additional experiments are conducted in all labs (Annexure 1.4)
5	Evidence of academic flexibility	27.2%(6/22) in R16(2 P.E) M.TECH 33.33%(6/18) 1-1 in R19(2P.E) for PS 18.75%(6/32)3-1 in R19(1P.E+1O.E)for PE Annexure 1.4



# AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY

(Approved by A.I.C.T.E., New Delhi & Permanently Affiliated to J.N.T.U.K., Kakinada)

NAAC "B++" Accredited Institute

Cherukupally (Village), Near Tagarapavalasa Bridge, Vizianagaram (Dist) -531162.

www.aietta.ac.in, principal@aietta.ac.in

## 2. Faculty information and their contribution

S.NO.	CRITERION	OBSERVATIONS
1	Student teacher ratio	19:1 17 faculty are allotted to teach for 146 students
2	Faculty cadre ratio Prof : Asso : Asst	Professors: 1 Associate Professor: 3 Assistant Professors: 13 Annexure:2.1
3	Faculty qualifications	Doctorates: 1 Ph.D. Pursuing :1 M. Tech: 15
4	Faculty experience and retention	Annexure 2.2 is enclosed by mentioning the (list of faculties, qualifications, total experience, experience at AIET)
5	Faculty contribution in writing: <ul style="list-style-type: none"><li>• Books:</li><li>• Book chapters:</li></ul>	Nil
6	Faculty in Professional bodies Faculty contributions	1 Faculty member is enrolled in Professional bodies and its evidence is enclosed in annexure 2.3
7	Faculty as resource persons in workshops/training activities	Nil
8	International/national level events organized <ul style="list-style-type: none"><li>• Training Programs</li><li>• Workshops/seminars:</li><li>• FDP's</li></ul>	Nil
9	List of conferences/seminars/workshops/FDP's/any exclusive programmes attended for enrichment of teaching-learning process	Conferences: Nil seminars :Nil workshops: 13 FDP's :3

## 3. Teaching learning process and evaluation

S. NO	CRITERION	OBSERVATIONS
1	Student performances Attendance	Lists of students Detention and condonation are maintained.



# AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY

(Approved by A.I.C.T.E., New Delhi & Permanently Affiliated to J.N.T.U.K., Kakinada)

NAAC "B++" Accredited Institute

Cherukupally (Village), Near Tagarapuvalasa Bridge, Vizianagaram (Dist) -531162.

www.aietta.ac.in, principal@aietta.ac.in

	Exams	
2	Mechanism and activities for slow learners improvements	Slow learners are identified based on performance in Mid-exams. Conducted extra classes for slow learners
3	Student counselling/mentoring mechanism	20 students are allotted for each faculty member for better improvement of their academic results.
4	Initiatives taken for innovative projects	Nil
5	Review and evaluation of student projects: Best Projects	5 Best projects are carried as per PRC guidelines Annexure 3.1
6	Monitoring of teaching-learning process <ul style="list-style-type: none"> <li>• Observation of teaching process in class rooms as per schedule</li> <li>• Tracking of syllabus coverage</li> <li>• Uploading of Lecture notes, question papers of mid and semester end examinations in Elearning portal</li> <li>• verification of evaluated answer papers</li> <li>• checking the quality of mid examinations question papers</li> <li>• Innovative teaching methods presented</li> <li>• Verification of course files</li> <li>• Minutes of class committee meetings and action taken</li> </ul>	<ul style="list-style-type: none"> <li>• Regular verification of Attendance registers</li> <li>• Uploading of course material with lesson plan.</li> <li>• Track sheets are maintained to review syllabus coverage</li> </ul>
7	Training programmes conducted for students <ul style="list-style-type: none"> <li>• Guest Lectures</li> <li>• Add-on courses</li> <li>• Seminars/workshops</li> <li>• Compliance of department academic calendar</li> </ul>	<ul style="list-style-type: none"> <li>• Guest lectures, seminars are conducted for the students to get aware of some corerelated subjects, which are presented by eminent resource Persons.</li> <li>• Add-on Courses: 2 Programs are conducted for students: Annexure 3.2</li> </ul>
8	MOU's with industries for internship	Internship with other industries is done
9	Students feedback and follow up action	Needed action is taken up by students feedback



# AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY

(Approved by A.I.C.T.E., New Delhi & Permanently Affiliated to J.N.T.U.K., Kakinada)

NAAC "B++" Accredited Institute

Cherukupally (Village), Near Tagarapavalasa Bridge, Vizianagaram (Dist) -531162.

www.aietta.ac.in, principal@aietta.ac.in

10	Scope for self learning <ul style="list-style-type: none"> <li>• Certificate courses</li> <li>• Online courses</li> </ul>	Faculty members were very instrumental in designing and developing 2 Add-on and Certificate course programs.
11	Result analysis and conduct of remedial classes for students with backlogs	<ul style="list-style-type: none"> <li>• Remedial classes are conducted to form an improvement from Ist Mid exam to II mid exam</li> <li>• Extra classes are conducted for backlog students Result analysis Annexure 3.4</li> </ul>
12	Placements (%): Industries/organizations:	Nil
13	Higher studies(%): Institutions:	Nil
14	Student development activities: Co-curricular Extra-curricular activities	Students are participated both in co-curricular and extra-curricular activities Annexure 3.5

## 4. Research consultancy and Extension

S.NO	CRITERION	OBSERVATIONS
1	Faculty Publications in journals: Peer review journals: Thomson Reuters Impact factor journals	Total No. Of Peer review journals: Nil No. SCOPUS/SCI Indexed journals : Nil
2	Publications in conferences: National: International:	Nil
3	Percentage of Faculty contributing in Research Publications:	41% of Faculty contributing in Research Publications:
4	Ph.D. s registered: Submitted: Awarded: Ph.D. guiding/guided	Registered:--2 Submitted: --Nil Awarded: 1 Guiding/guided: Nil
5	Funded R&D projects and consultancy works:	Projects are done and its evidences are enclosed Annexure 4.1
6	Incentives for faculty R&D	Incentives for faculty Research publications as per HR policy
7	MOU's with industries/R&D/Premier Institutes	MOU's with industries and R&D annexure:4.2
8	Research centres of excellence established:	-----



# AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY

(Approved by A.I.C.T.E., New Delhi & Permanently Affiliated to J.N.T.U.K., Kakinada)

NAAC "B++" Accredited Institute

Cherukupally (Village), Near Tagarapavalasa Bridge, Vizianagaram (Dist) -531162.

www.aietta.ac.in, principal@aietta.ac.in

9	Skill development centre established	YES, Skill development centre established in collaboration with APSSDC
---	--------------------------------------	--

## 5. Infrastructure and Learning resources

S.No	Criterion	Observations
1	Infrastructure facilities to improve teaching learning process Class rooms: Laboratories: E-class rooms: Seminars: Faculty rooms:	Classrooms:7 Laboratories:3 E-classrooms: 1 Seminar halls: 1 Faculty rooms: 2
2	Internet facility for faculty and students:	Wi-Fi net is enabled
3	Technical and administrative staff support	4 members of Technical support is provided. P.Santhosh-Technical Ch.Shiva- Technical I.Srinu- Lab Assistant T.Ramu- Lab Assistant
4	Department budget: Sanctioned amount: Amount spent: New equipment added: Maintenance of equipment and consumable registers in labs	
5	Details of computing facilities and software	60 systems are provided to the students List of software procured: 1.MATLAB 2.PSPICE
6	Dept, Newsletters and Magazine	Yes
7	Department level library resources	Yes

## 6. Student information support and progression

S.NO	Criterion	Observations
1	Add-on courses	Add-on courses:2 1.Solar Technologies 2.MATLAB
2	Student Publications:	Student Publications: Nil



# AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY

(Approved by A.I.C.T.E., New Delhi & Permanently Affiliated to J.N.T.U.K., Kakinada)

NAAC "B++" Accredited Institute

Cherukupally (Village), Near Tagarapuvalasa Bridge, Vizianagaram (Dist) -531162.

www.aietta.ac.in, principal@aietta.ac.in

	Dept. student E-Club:	No. of E-club activities for students: 2 1. Spark Club 2. Electoral Literacy Club
3	Details for coaching provided for GATE/CRT/any other competitive examinations	External CRT classes are provided, 200 classes for an academic year
4	Industrial visits and Internships	Internships: II EEE:25 III EEE:16 are Participated

## 7. Governance, Leadership and Management

S.NO.	Criterion	Observations
1	Teaching and non-teaching attended for skill development programs	Both teaching and non-teaching staff are attended for skill development programs for an academic year 2018-2019
2	MOUs with premier institutions for knowledge exchange	MOUs And its Annexure 7.1
3	Display of vision, mission and quality objectives at prominent places	Yes
4	Staff and students attendance monitoring system: -Biometric: Attendance Registers:	Regular follow up of biometric as well as Attendance registers.
5	Financial support/leaves for qualification/skill up-gradation:	Faculty members are sanctioned with Registration fees, TA and Academic Leave are also provide for attending conferences and workshops, extra leaves area sanctioned for faculty who undergo for research submission work.
6	Risk evaluation/safety measures	Maintaining fire extinguishers in all the prominent places of college.

## 8. Strengths, weakness and areas of Improvement

### Strengths

1. Good faculty retention
2. More number of student placements
3. Strong department level support for faculty research activities
4. Supportive working environment among department members
5. Faculty active participation in extra curricular activities



# AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY

(Approved by A.I.C.T.E., New Delhi & Permanently Affiliated to J.N.T.U.K., Kakinada)

NAAC "B++" Accredited Institute

Cherukupally (Village), Near Tagarapuvalasa Bridge, Vizianagaram (Dist) -531162.

www.aietta.ac.in, principal@aietta.ac.in

## Weakness

1. Lack of NRI students
2. Poor socio-economic status of the students.
3. There is a need to modernise classrooms with ICT facilities
4. Lack of mathematical ability

## Opportunities:

1. By establishing stronger relationships with R&D organization.
2. Increase of research funding.
3. Interdisciplinary growth of core departments
4. Opportunity to maximize the potentiality of Centres of Excellence.


## Suggestions for Improvement


To overcome the challenges and improve the quality of education, evaluation can be done on the following factors such as maintenance of infrastructure, pedagogy skills, quality of teacher's education and extra-curricular as well as co-curricular activities.

  
HOD -EEE

Head of The Department  
Department of Electrical and Electronics Engineering  
Avanthi Institute of Engg. & Tech.  
Cherukupally (V), Chittivalasa (SAO)  
Bhogapuram (M), Vizianagaram(Dist)-531163

Sign. of Academic Auditors

  
(Dr. R. Swapna)  
Professor, Dept of BS&H

  
(Mr. A. Vasudeva Rao)  
Asst. Professor, Dept. of CSE



# AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY

(Approved by A.I.C.T.E., New Delhi & Permanently Affiliated to J.N.T.U.K, Kakinada)

NAAC "B++" Accredited Institute

Cherukupally (Village), Near Tagarapuvalasa Bridge, Vizianagaram (Dist) -531162.

www.aietta.ac.in, principal@aietta.ac.in

## ACADEMIC AUDIT REPORT (2019-2020)

### DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

AY: 2019-2020

I SEM

Date of Audit: 24-12-2019

We, Dr. B. Avinash Ben and Mrs. K. Praveena were entrusted to carry out the audit work of Department of Electronics and Communication Engineering by the IQAC. The audit work was carried out with the consent and the presence of the Head of the Department and Department coordinators. The overall internal audit report was prepared & drafted based on the Academic Information Including strengths, weakness, and opportunities. The report was duly submitted along with suggestions to the IQAC.

#### 1. COs, POs curriculum

S.NO.	CRITERION	OBSERVATIONS
1	COs and POs attainment	CO's and PO's attainment calculated as per the procedure established by PAC and (Annexure 1.1) is enclosed
2	Stakeholders feedback related to curriculum design	Graduates exit survey; Alumni survey and employer survey, teachers survey are conducted and presented as consolidated as per format. (Annexure 1.2)
3	Action taken on Minutes of Meeting	Incorporated changes as per the suggestions by DAC, PAC and its Minutes of meeting, Curriculum changes and its evidences are enclosed (Annexure 1.3)
4	Percentage of Lab component	23%(4.5/19) -R19 21.5%(14/65) -R16 M.tech 22.2%(4/18)-R19 -Two additional experiments are conducted in all labs (Annexure 1.4)
5	Evidence of academic flexibility	2 Core elective 27.7%(6/22)-R16 M.Tech 3 P.E + 1 O.E 24% (12/50)-R19 (Annexure 1.5)





# AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY

(Approved by A.I.C.T.E., New Delhi & Permanently Affiliated to J.N.T.U.K, Kakinada)

NAAC "B++" Accredited Institute

Cherukupally (Village), Near Tagarapuvalasa Bridge, Vizianagaram (Dist) -531162.

www.aietta.ac.in, principal@aietta.ac.in

## 2. Faculty information and their contribution

S.NO.	CRITERION	OBSERVATIONS
1	Student teacher ratio	19:1 32 faculty members are assigned to teach for 174 students
2	Faculty cadre ratio Prof : Assoc : Asst	Professors: 1 Associate Professor: 5 Assistant Professors: 26 Annexure:2.1
3	Faculty qualifications	Doctorates: 1 Ph.D. Pursuing :2 M.Tech: 29
4	Faculty experience and retention	Annexure 2.2is enclosed by mentioning the (list of faculties, qualifications, total experience, experience at AIET)
5	Faculty contribution in writing: --Books: --Book chapters:	Nil
6	Faculty in Professional bodies Faculty contributions	2 Faculty members are enrolled in Professional bodies and its evidence is enclosed in annexure 2.3
7	Faculty as resource persons in workshops/training activities	Training and Programs: 1
8	International/national level events organized <ul style="list-style-type: none"><li>• Training Programs</li><li>• Workshops/seminars:</li><li>• FDP's:</li></ul>	FDP's:2 Annexure 2.4
9	List of conferences/seminars/workshops/FDP's/any exclusive programmes attended for enrichment of teaching-learning process	Conferences: Nil Seminars: Nil Workshops:1 FDP's:16 Annexure 2.5



# AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY

(Approved by A.I.C.T.E., New Delhi & Permanently Affiliated to J.N.T.U.K, Kakinada)

NAAC "B++" Accredited Institute

Cherukupally (Village), Near Tagarapuvalasa Bridge, Vizianagaram (Dist) -531162.

www.aietta.ac.in, principal@aietta.ac.in

## 3. Teaching learning process and evaluation

S.NO.	CRITERION	OBSERVATIONS
1	Student performances Attendance Exams	List of students Detention and condonation are maintained.
2	Mechanism and activities for slow learners improvements	Slow learners are identified based on performance in Mid-exams. Conducted extra classes for slow learners
3	Student counselling/mentoring mechanism	20 students are allotted for each faculty member for better improvement of their academic results.
4	Initiatives taken for innovative projects	Nil
5	Review and evaluation of student projects: ---Best Projects	Best projects are carried as per PRC guidelines Annexure 3.1 Annexure 3.1
6	Monitoring of teaching-learning process Observation of teaching process in class rooms as per schedule <ul style="list-style-type: none"> <li>Tracking of syllabus coverage</li> <li>Uploading of Lecture notes, question papers of mid and semester end examinations in E-learning portal</li> <li>Verification of evaluated answer papers</li> <li>Checking the quality of mid examinations question papers</li> <li>Innovative teaching methods presented</li> <li>Verification of course files</li> <li>Minutes of class committee meetings and action taken</li> </ul>	<ul style="list-style-type: none"> <li>Regular visit by the principal</li> <li>CC surveillance</li> </ul> <p>As per schedule, the coverage of syllabus is strictly followed. by any consequences if there is any lag-on of syllabus extra classes will be conducted'</p> <ul style="list-style-type: none"> <li>Track sheets are maintained to review syllabus coverage.</li> <li>Evaluation of answer papers as per the allotment of marks</li> <li>Yes, the quality of mid-exam question papers is regularly checked by exam cell co-ordinator and the Principal.</li> <li>Interactive way of teaching</li> <li>Regular verification of Attendance registers as well as the course files by HOD.</li> <li>Minutes of meetings are regularly conducted to discuss the matters that are related to Time Tables,</li> </ul>



# AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY

(Approved by A.I.C.T.E., New Delhi & Permanently Affiliated to J.N.T.U.K, Kakinada)

NAAC "B++" Accredited Institute

Cherukupally (Village), Near Tagarapuvalasa Bridge, Vizianagaram (Dist) -531162.

www.aietta.ac.in, principal@aietta.ac.in

		academic planning and its facilities provided.
7	<p>Training programmes conducted for students</p> <ul style="list-style-type: none"> <li>• Guest Lectures</li> <li>• Add-on courses</li> <li>• Seminars/workshops</li> <li>• Compliance of department academic calendar</li> </ul>	<ul style="list-style-type: none"> <li>• Guest lectures are conducted for the students to get aware of some core related subjects, which are presented by eminent resource Persons.</li> <li>• Add-on Courses:3 Programs are conducted for students: Annexure 3.2</li> </ul>
8	MOU's with industries for internship	Internship with other industries is done
9	Students feedback and follow up action	Needed action is taken up by students feedback
10	<p>Scope for self learning</p> <p>---certificate courses</p> <p>---online courses</p>	Faculty members were very instrumental in designing and developing 3 Add-on and Certificate course programs.
11	Result analysis and conduct of remedial classes for students with backlogs	<ul style="list-style-type: none"> <li>• Based on the results of mid exams, remedial classes are conducted.</li> <li>• Based on the results of main exams, backlog classes are conducted. Annexure 3.4</li> </ul>
12	<p>Placements (%):</p> <p>Industries/organizations:</p>	Nil
13	<p>Higher studies(%):</p> <p>--Institutions:</p>	<p>3 students are successfully progressed for higher studies</p> <p>C.Vinay kumar M.TECH</p> <p>C.Triveni MBA</p> <p>S.Yamini PGDM</p>
14	<p>Student development activities:</p> <ul style="list-style-type: none"> <li>• Co-curricular</li> <li>• Extra-curricular activities</li> </ul>	<p>Students are participated both in co-curricular and extra-curricular activities</p> <p>Annexure 3.3</p>



# AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY

(Approved by A.I.C.T.E., New Delhi & Permanently Affiliated to J.N.T.U.K, Kakinada)

NAAC "B++" Accredited Institute

Cherukupally (Village), Near Tagarapavalasa Bridge, Vizianagaram (Dist) -531162.

www.aietta.ac.in, principal@aietta.ac.in

## 4. Research consultancy and Extension

1	Faculty Publications in journals: Peer review journals: Thomson Reuters Impact factor journals	Total No. Of Peer review journals: Nil No. SCOPUS/SCI Indexed journals :Nil
2	Publications in conferences: National: International:	Nil
3	Percentage of Faculty contributing in Research Publications:	25 Percentage of Faculty contributing in Research Publications
4	Ph.D. s registered: Submitted: Awarded: Ph.D. guiding/guided	Registered:2 Submitted: Nil Awarded: 2 Guiding/guided: Nil
5	Funded R&D projects and consultancy works:	Projects are done and its evidences are enclosed Annexure 4.1
6	Incentives for faculty R&D	Incentives for faculty Research publications as per HR policy
7	MOU's with industries/R&D/Premier Institutes	MOU's with industries and R&D annexure:4.2
8	Research centers of excellence established:	-----
9	Skill development centre established	YES, Skill development centre established in collaboration with APSSDC

## 5. Infrastructure and Learning resources

S.No	Criterion	Observations
1	Infrastructure facilities to improve teaching learning process <ul style="list-style-type: none"> <li>• Class rooms</li> <li>• Laboratories</li> <li>• E-class rooms</li> <li>• Seminars</li> <li>• Faculty rooms</li> </ul>	Classrooms:6 Laboratories:6 E-classrooms: 1 Seminar halls: 1 Faculty rooms: 3



# AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY

(Approved by A.I.C.T.E., New Delhi & Permanently Affiliated to J.N.T.U.K, Kakinada)

NAAC "B++" Accredited Institute

Cherukupally (Village), Near Tagarapuvalasa Bridge, Vizianagaram (Dist) -531162.

www.aietta.ac.in, principal@aietta.ac.in

2	Internet facility for faculty and students:	Wi-Fi net is enabled
3	Technical and administrative staff support	3 members of Technical and 3 members of administrative support is provided. P.Santhosh-Technical Ch. Rajani- Technical Ch.Shiva- Technical K.Thapulayya-Administrative support B.Bhaskar-Administrative support
4	Department budget: Sanctioned amount: Amount spent: New equipment added: Maintenance of equipment and consumable registers in labs	
5	Details of computing facilities and software	Total number of computers:60 List of software procured: 1.MATLAB 2.XILINX 3.KEEL-V4,V5 4.ARDUINO 5.HFSS 6.MULTISIM
6	Dept, Newsletters and Magazine	Yes
7	Department level library resources	Yes

## 6.Student information support and progression

S.NO	Criterion	Observations
1	Add-on courses	Add-on courses :3 1.PLC/SCADA/DCS 2.TANNAR TOOLS 3.Computer Networking Security
2	Student Publications: Dept. student E-Club:	Student Publications:Nil No. of E-club activities for students:2 1.Crexta



# AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY

(Approved by A.I.C.T.E., New Delhi & Permanently Affiliated to J.N.T.U.K, Kakinada)

NAAC "B++" Accredited Institute

Cherukupally (Village), Near Tagarapuvalasa Bridge, Vizianagaram (Dist) -531162.

www.aietta.ac.in, principal@aietta.ac.in

		2.Electoral literacy club
3	Details for coaching provided for GATE/CRT/any other competitive examinations	External CRT classes are provided, 200 classes for an academic year
4	Industrial visits and Internships	III ECE-15 II ECE -50 Students are participated.

## 7. Governance, Leadership and Management

S.NO.	Criterion	Observations
1	Teaching and non-teaching attended for skill development programs	Both teaching and non-teaching staff are attended for skill development programs for an academic year 2020-2021
2	MOUs with premier institutions for knowledge exchange	MOUs And its Annexure 7.1
3	Display of vision, mission and quality objectives at prominent places	Yes
4	Staff and students' attendance monitoring system: -Biometric: Attendance Registers:	Regular follow up of biometric as well as Attendance registers.
5	Financial support/leaves for qualification/skill up-gradation:	Faculty members are sanctioned with Registration fees, TA and Academic Leave are also provide for attending conferences and workshops, extra leaves area sanctioned for faculty who undergo for research submission work.
6	Risk evaluation/safety measures	Maintaining fire extinguishers in all the prominent places and needed corners of college.



# AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY

(Approved by A.I.C.T.E., New Delhi & Permanently Affiliated to J.N.T.U.K, Kakinada)

NAAC "B++" Accredited Institute

Cherukupally (Village), Near Tagarapuvalasa Bridge, Vizianagaram (Dist) -531162.

www.aietta.ac.in, principal@aietta.ac.in

## 8. Strengths, weakness and areas of Improvement

### Strengths

- 1) Good faculty retention
- 2) More number of student placements
- 3) Strong department level support for faculty research activities
- 4) Supportive working environment among department members

### Weakness

- 1) Lack of NRI student attraction.
- 2) Poor socio-economic status of the students.
- 3) There is a need to modernize classrooms with ICT facilities

### Opportunities:

- 1) By establishing stronger relationships with R&D organization.
- 2) Increase of research funding.
- 3) Interdisciplinary growth of core departments
- 4) Opportunity to maximize the potentiality of Centres of Excellence.

### Suggestions for Improvement

To overcome the challenges and improve the quality of education, evaluation can be done on the following factors such as maintenance of infrastructure, pedagogy skills, quality of teacher's education and extra-curricular as well as co-curricular activities.

**HOD-ECE**

**Head of the Department**

**Electronics & Communication Engineering**

**AVANTHI INSTITUTE OF ENGG & TECH**

**Cherukupally (Vill), Bhogapuram (M)**

**VIZIANAGARAM (DIST)**

**Sign. of Academic Auditors**

(Dr.B.Avinash Ben)

Assoc.Professor, Dept.of Mech

(Mrs.K.Praveena)

Asst.Professor, Dept. of EEE



# AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY

(Approved by A.I.C.T.E., New Delhi & Permanently Affiliated to J.N.T.U.K, Vizianagaram)

NAAC "B++" Accredited Institute

Cherukupally (Village), Near Tagarapuvalasa Bridge, Vizianagaram (Dist) -531162.

www.aietta.ac.in, principal@aietta.ac.in

## ACADEMIC AUDIT REPORT (2019-2020)

### DEPARTMENT OF MECHANICAL ENGINEERING

ACADEMIC YEAR : 2019-2020 I SEMESTER

DATE OF AUDIT : 23-12-2019

We, Dr. A. Chandra Sekhar and Mr. V. Siva Bhaskara Rao were entrusted to carry out the audit work of Department of Mechanical Engineering by the IQAC. The audit work was carried out with the consent and the presence of the Head of the Department and Department coordinators. The overall internal audit report was prepared & drafted based on the Academic Information Including strengths, weakness, and opportunities. The report was duly submitted along with suggestions to the IQAC.

#### 1. COs, POs curriculum

S.NO.	CRITERION	OBSERVATIONS
1	COs and POs attainment	CO's and PO's attainment calculated as per the procedure established by PAC and (Annexure 1.1) is enclosed
2	Stakeholders feedback related to curriculum design	Graduates exit survey; Alumni survey and employer survey, teachers survey are conducted and presented as consolidated as per format. (Annexure 1.2)
3	Action taken on Minutes of Meeting	Incorporated changes as per the suggestions by DAC,PAC and it's Minutes of meeting, Curriculum changes and it's evidences are enclosed (Annexure 1.3)
4	Percentage of Lab component	18.88%(4/22) R16 14.28% (3/21) R19 M.TECH 22.22%(4/18) R19 -Two additional experiments are conducted in all labs (Annexure 1.4)





# AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY

(Approved by A.I.C.T.E., New Delhi & Permanently Affiliated to J.N.T.U.K, Vizianagaram)

NAAC "B++" Accredited Institute

Cherukupally (Village), Near Tagarapavalasa Bridge, Vizianagaram (Dist) -531162.

www.aietta.ac.in, principal@aietta.ac.in

5	Evidence of academic flexibility	27.77%(6/22) <b>R16</b> <b>MTECH</b> 10.E+2 P.E 24%(12/50) <b>R19</b> (Annexure 1.5)
---	----------------------------------	--

## 2. Faculty information and their contribution

S.NO.	CRITERION	OBSERVATIONS
1	Student teacher ratio	19:1 31 faculty members are assigned to teach for 460 students
2	Faculty cadre ratio Prof : Assoc : Asst	Professors: 3 Associate Professor: 5 Assistant Professors: 22 Annexure:2.1
3	Faculty qualifications	Doctorates : 3 Ph.D.Pursuing :5 M.Tech: 22
4	Faculty experience and retention	Annexure 2.2 is enclosed by mentioning the (list of faculty, qualifications, total experience, experience at AIET)
5	Faculty contribution in writing: --Books: --Book chapters:	Books-1
6	Faculty in Professional bodies Faculty contributions	2 faculty members are enrolled in Professional bodies and its evidence is enclosed in annexure 2.3
7	Faculty as resource persons in workshops/training activities	Training and Programs:1 Annexure 2.4
8	International/national level events organized -- Training Programs --workshops/seminars: --FDP's :	FDP's : 1 Annexure 2.5
9	List of conferences/seminars/workshops/FDP's/any exclusive programmes attended for enrichment of teaching-learning process	Conferences: Nil Seminars: Nil Workshops: Nil FDP's: 26



# AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY

(Approved by A.I.C.T.E., New Delhi & Permanently Affiliated to J.N.T.U.K, Vizianagaram)

NAAC "B++" Accredited Institute

Cherukupally (Village), Near Tagarapuvalasa Bridge, Vizianagaram (Dist) -531162.

www.aietta.ac.in, principal@aietta.ac.in

		Training Program:4 Annexure 2.6
--	--	------------------------------------

### 3. Teaching learning process and evaluation

S.NO.	CRITERION	OBSERVATIONS
1	Student performances Attendance Exams	List of students Detention and condonation are maintained.
2	Mechanism and activities for slow learners improvements	Slow learners are identified based on performance in Mid-exams. Conducted extra classes for slow learners
3	Student counselling/mentoring mechanism	20 students are allotted for each faculty member for better improvement of their academic results.
4	Initiatives taken for innovative projects	Nil
5	Review and evaluation of student projects: ---Best Projects	5 Best projects are carried as per PRC guidelines Annexure 3.1 Annexure 3.1
6	Monitoring of teaching-learning process --Observation of teaching process in class rooms as per schedule ---Tracking of syllabus coverage  ---Uploading of Lecture notes, question papers of mid and semester end examinations in E-learning portal  ---verification of evaluated answer papers  ---checking the quality of mid examinations question papers	<ul style="list-style-type: none"> <li>• Regular visit by the principal</li> <li>• CC surveillance</li> </ul> <p>As per schedule, the coverage of syllabus is strictly followed by any consequences if there is any lag-on of syllabus extra classes will be conducted</p> <ul style="list-style-type: none"> <li>• Track sheets are maintained to review syllabus coverage.</li> <li>• Evaluation of answer papers as per the allotment of marks</li> <li>• Yes, the quality of mid-exam question papers is regularly checked by exam cell co-ordinator and the Principal.</li> <li>• Interactive way of teaching</li> </ul>



# AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY

(Approved by A.I.C.T.E., New Delhi & Permanently Affiliated to J.N.T.U.K, Vizianagaram)

NAAC "B++" Accredited Institute

Cherukupally (Village), Near Tagarapuvalasa Bridge, Vizianagaram (Dist) -531162.

www.aietta.ac.in, principal@aietta.ac.in

	<p>---Innovative teaching methods presented</p> <p>---Verification of course files</p> <p>---Minutes of class committee meetings and action taken</p>	<ul style="list-style-type: none"> <li>Regular verification of Attendance registers as well as the course files by HOD.</li> <li>Minutes of meetings are regularly conducted to discuss the matters that are related to Time Tables, academic planning and its facilities provided.</li> </ul>
7	<p>Training programmes conducted for students</p> <p>---Guest Lectures</p> <p>---Add-on courses</p> <p>---Seminars/workshops</p> <p>---Compliance of department academic calendar</p>	<ul style="list-style-type: none"> <li>2 Guest lectures are conducted for the students to get aware of some core related subjects, which are presented by eminent resource Persons.</li> <li>Add-on Courses:4 Programs are conducted for students</li> <li>Seminars: Nil</li> <li>Workshops:3 Annexure 3.2</li> </ul>
8	MOU's with industries for internship	<ul style="list-style-type: none"> <li>Internship with other industries are done.</li> </ul>
9	Students feedback and follow up action	<ul style="list-style-type: none"> <li>Needed action is taken up by students feedback.</li> </ul>
10	<p>Scope for self learning</p> <p>---certificate courses</p> <p>---online courses</p>	<ul style="list-style-type: none"> <li>Faculty members were very instrumental in designing and developing 4 Add- on and Certificate course programs.</li> </ul>
11	Result analysis and conduct of remedial classes for students with backlogs	<ul style="list-style-type: none"> <li>Based on the results of mid exams, remedial classes are conducted.</li> <li>Based on the results of main exams, backlog classes are conducted.</li> <li>Annexure 3.3</li> </ul>
12	<p>Placements --- (%):</p> <p>Industries/organizations:</p>	NA
13	<p>Higher studies (%):</p> <p>--Institutions:</p>	<p>3 students successfully progressed for higher studies.</p> <p>1.Kona Manoj Kumar, Avanathi Institute of Engineering and Technology.</p> <p>2.Lukalapu.Ramu, Nehru National Motilal Institute of Technogy,Allahabad.</p> <p>3.Uppada Bala Bhaskar Rao,</p>



# AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY

(Approved by A.I.C.T.E., New Delhi & Permanently Affiliated to J.N.T.U.K, Vizianagaram)

NAAC "B++" Accredited Institute

Cherukupally (Village), Near Tagarapuvalasa Bridge, Vizianagaram (Dist) -531162.

www.aietta.ac.in, principal@aietta.ac.in

		Anil Neerukonda Institute of Technology & Science.
14	Student development activities: ---Co-curricular ---Extra-curricular activities	Students are participated both in co-curricular and extra-curricular activities

## 4. Research consultancy and Extension

1	Faculty Publications in journals: Peer review journals: Thomson Reuters Impact factor journals	Total No. Of Peer review journals: Nil No. SCOPUS/SCI Indexed journals: 8
2	Publications in conferences: National: International:	1
3	Percentage of Faculty contributing in Research Publications:	(26.9% ) 7 faculties contributing in Research Publications
4	Ph.D s registered: Submitted: Awarded: Ph.D. guiding/guided	Registered:--11 Submitted: --Nil Awarded: 3 Guiding/guided: Nil
5	Funded R&D projects and consultancy works:	5 Projects are done and its evidences are enclosed Annexure 4.1
6	Incentives for faculty R&D	Incentives for faculty Research publications as per HR policy
7	MOU's with industries/R&D/Premier Institutes	MOU's with industries and R&D annexure:4.2
8	Research centers of excellence established:	-----
9	Skill development center established	YES, Skill development center established in collaboration with APSSDC



# AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY

(Approved by A.I.C.T.E., New Delhi & Permanently Affiliated to J.N.T.U.K, Vizianagaram)

NAAC "B++" Accredited Institute

Cherukupally (Village), Near Tagarapuvalasa Bridge, Vizianagaram (Dist) -531162.

www.aietta.ac.in, principal@aietta.ac.in

## 5. Infrastructure and Learning resources

S.No	Criterion	Observations
1	Infrastructure facilities to improve teaching learning process Class rooms: Laboratories: E-class rooms: Seminars: Faculty rooms:	Classrooms:7 Laboratories:12 E-classrooms:1 Seminar halls: 1 Faculty rooms:2
2	Internet facility for faculty and students:	Wi-Fi net is enabled
3	Technical and administrative staff support	6 members of Technical and 1 members of administrative support is provided. N.Suresh---Technical K. Appala Narayana---Technical P. Kamesh---Technical M.P. Divakar Das---Technical D. Srinivas---Technical P.Santhosh---Technical P. Ramu---Attender
4	Department budget: Sanctioned amount: Amount spent: New equipment added: Maintenance of equipment and consumable registers in labs	
5	Details of computing facilities and software	Total number of computers for students purpose: 60 List of software procured: 1.ANSYS 15.U 2.CATIA V5 R13 3.MAT LAB
6	Dept, Newsletters and Magazine	Yes
7	Department level library resources	Yes



# AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY

(Approved by A.I.C.T.E., New Delhi & Permanently Affiliated to J.N.T.U.K, Vizianagaram)

NAAC "B++" Accredited Institute

Cherukupally (Village), Near Tagarapuvalasa Bridge, Vizianagaram (Dist) -531162.

www.aietta.ac.in, principal@aietta.ac.in

## 6. Student information support and progression

S.NO	Criterion	Observations
1	Add-on courses	4 Add-on courses are conducted 1) Drafting Using CATIA-V6 2) DASSUALT(DELMIA) 3) DASSUALT(SIMULATION) 4) DASSUALT(CATIA)
2	Student Publications: Dept. student E-Club:	Student Publications: Nil No. of E-club activities for students: 2 1. Mecha Morphis 2. Electoral Literacy club
3	Details for coaching provided for GATE/CRT/any other competitive examinations	External CRT classes are provided, 200 classes for an academic year
4	Industrial visits and Internships	Industrial visits: 1 Internships: 2

## 7. Governance, Leadership and Management

S.NO.	Criterion	Observations
1	Teaching and non-teaching attended for skill development programs	Both teaching and non-teaching staff are attended for skill development programs for an academic year 2019-2020
2	MOUs with premier institutions for knowledge exchange	MOUs And its Annexure 7.1
3	Display of vision, mission and quality objectives at prominent places	Yes
4	Staff and students attendance monitoring system: -Biometric: Attendance Registers:	Regular follow up of biometric as well as Attendance registers.
5	Financial support/leaves for qualification/skill	Faculty members are sanctioned with Registration fees, TA and Academic



# AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY

(Approved by A.I.C.T.E., New Delhi & Permanently Affiliated to J.N.T.U.K, Vizianagaram)

NAAC "B++" Accredited Institute

Cherukupally (Village), Near Tagarapuvalasa Bridge, Vizianagaram (Dist) -531162.

www.aietta.ac.in, principal@aietta.ac.in

	up-gradation:	Leave are also provide for attending conferences and workshops, extra leaves area sanctioned for faculty who undergo for research submission work.
6	Risk evaluation/safety measures	Maintaining fire extinguishers in all the prominent places and needed corners of college.

## 8. Strengths, weakness and areas of Improvement

### Strengths:

- 1) Well trained, research oriented, experienced, dedicated and energetic teaching faculty.
- 2) Effective technical and Innovative skills.
- 3) More number of student placements.
- 4) Good computational and experimental facilities.
- 5) Strong department level support for faculty research activities.
- 6) Supportive working environment among department members.
- 7) Supportive non-teaching and laboratory staff.
- 8) Excellent and well-maintained infrastructure in form of new building.
- 9) Good teaching and learning environment supported by prolific library.

### Weakness:

- 1) Lack of NRI student attraction.
- 2) Poor socio-economic status of the students.
- 3) There is a need to modernize classrooms with ICT facilities.

### Opportunities:

- 1) By establishing stronger relationships with R&D organization.
- 2) Increase of research funding.
- 3) Interdisciplinary growth of core departments.
- 4) Opportunity to maximize the potentiality of Centres of Excellence.



# AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY

(Approved by A.I.C.T.E., New Delhi & Permanently Affiliated to J.N.T.U.K, Vizianagaram)


NAAC "B++" Accredited Institute

Cherukupally (Village), Near Tagarapuvalasa Bridge, Vizianagaram (Dist) -531162.

www.aietta.ac.in, principal@aietta.ac.in

## Suggestions for Improvement

To overcome the challenges and improve the quality of education, evaluation can be done on the following factors such as maintenance of infrastructure, pedagogy skills, quality of teacher's education and extra-curricular as well as co-curricular activities.

  
HOD-MECH

**HOD**  
**MECHANICAL DEPARTMENT**  
AVANTHI INSTITUTE OF ENGG. & TEC  
Bhogapuram (V), Vizianagaram (Dist.)

Sign. Of Academic Auditors

  
Dr. A. Chandra sekhar

Professor, Dept. of CSE

  
Mr. V. Siva Baskar Rao

Assoc. Professor,  
Dept. Of ECE





# AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY

(Approved by A.I.C.T.E., New Delhi & Permanently Affiliated to J.N.T.U.K, Kakinada)

NAAC“B++” Accredited Institute

Cherukupally (Village), Near Tagarapuvalasa Bridge, Vizianagaram (Dist) -531162

.www.aietta.ac.in,principal@aietta.ac.in

## ACADEMIC AUDIT REPORT (2019-2020)

### DEPARTMENT OF CIVIL ENGINEERING

AY:2019-2020

I SEM

DATE OF AUDIT: 27-12-2019

We, Dr.P. Sai Krishna Rao and Mrs. K. Praveenawere entrusted to carry out the audit work of Department of Civil Engineering by the IQAC .The audit work was carried out with the consent and the presence of the Head of the Department and Department coordinators. The overall internal audit report was prepared & drafted based on the Academic Information Including strengths, weakness, and opportunities. The report was duly submitted along with suggestions to the IQAC .

#### 1. COs, Pos curriculum

S.NO.	CRITERION	OBSERVATIONS
1	CO s and Pos attainment	CO's and PO's attainment calculated as per the procedure established by PAC and (Annexure 1.1) is enclosed
2	Stake holders feedback related to curriculum design	Graduates exit survey; Alumni survey and employer survey, teachers survey are conducted and presented as consolidated as per format.(Annexure 1.2)
3	Action taken Minutes of Meeting	Incorporated changes as per the suggestions by DAC, PAC and its Minutes of meeting, Curriculum changes and its evidences are enclosed(Annexure 1.3)
4	Percentage of Lab component	18.88%(4/22) II/I-R16 27.27%(6/21) III/I 18.18%(4/22) IV/I Two additional experiments are conducted in all abs (Annexure 1.4)
5	Evidence of academic flexibility	13.63%(3/22) IV/I - R16



# AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY

(Approved by A.I.C.T.E., New Delhi & Permanently Affiliated to J.N.T.U.K, Kakinada)

NAAC "B++" Accredited Institute

Cherukupally (Village), Near Tagarapuvalasa Bridge, Vizianagaram (Dist) -531162.

www.aietta.ac.in, principal@aietta.ac.in

1	Student teacher ratio	19:1 13 faculty members are assigned to teach for 226 students
2	Faculty cadre ratio Prof : Assoc : Asst	Professors: 0 Associate Professor: 2 Assistant Professors: 11 Annexure: 2.1
3	Faculty qualifications	Doctorates: 1 Ph.D. Pursuing : 0
4	Faculty experience and retention	Annexure 2.2 is enclosed by mentioning the (list of faculty, qualifications, total experience, experience at AIET)
5	Faculty contribution in writing: • Books: • Book chapters:	Books- Nil
6	Faculty in Professional bodies Faculty contributions	Nil
7	Faculty as resource persons in workshops/training activities	Training activities: 2
8	International/national level events organized • Training Programs • workshops/seminars: • FDP's :	Workshops/ seminars: Nil FDP- Nil Annexure 2.4
9	List of conferences/seminars/workshops/FDP's/any exclusive programmes attended for enrichment of teaching-learning process	Conferences: Nil Seminars: Nil Workshops: Nil FDP: 8 Annexure 2.5

### 3. Teaching learning process and evaluation

S.NO.	CRITERION	OBSERVATIONS
1	Student performances Attendance Exams	List of students Detention and condonation are maintained.



# AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY

(Approved by A.I.C.T.E., New Delhi & Permanently Affiliated to J.N.T.U.K, Kakinada)

NAAC "B++" Accredited Institute

Cherukupally (Village), Near Tagarapavalasa Bridge, Vizianagaram (Dist) -531162.

www.aietta.ac.in, principal@aietta.ac.in

2	Mechanism and activities for slow learners improvements	Slow learners are identified based on performance in Mid-exams. Conducted extra classes for slowlearners
3	Student counseling/mentoring mechanism	20 students are allotted for each faculty member for better improvement of their academic results.
4	Initiatives taken for innovative projects	Nil
5	Review and evaluation of student projects: <ul style="list-style-type: none"> <li>• Best Projects</li> </ul>	5 Best projects are carried as per PRCguidelines Annexure 3.1 Annexure 3.1
6	<ul style="list-style-type: none"> <li>• Monitoring of teaching-learning process</li> <li>• Observation of teaching process in class rooms as per schedule</li> <li>• Tracking of syllabus coverage</li> <li>• Uploading of Lecture notes, question papers of mid and semester end examinations in E-learning portal</li> <li>• verification of evaluated answer papers</li> <li>• checking the quality of mid examinations question papers</li> <li>• Innovative teaching methods presented</li> <li>• Verification of course files</li> <li>• Minutes of class committee meetings and action taken</li> </ul>	<ul style="list-style-type: none"> <li>• Regular visit by the principal</li> <li>• CC surveillance</li> <li>• As per schedule, the coverage of syllabus is strictly followed. by any consequences if there is any lag-on of syllabus extra classes will be conducted</li> <li>• Track sheets are maintained to review syllabus coverage.</li> <li>• Evaluation of answer papers as per the allotment of marks</li> <li>• Yes, the quality of mid-exam question papers is regularly checked by exam cell co- Ordinator and the principal.</li> <li>• Interactive way of teaching</li> <li>• Regular verification of Attendance registers as well as the course files by HOD.</li> <li>• Minutes of meetings are regularly conducted to discuss the matters that are related to Time Tables, academic planning and its facilities provided.</li> </ul>
7	Training programmes conducted for students <ul style="list-style-type: none"> <li>• Guest Lectures</li> <li>• Add-on courses</li> </ul>	<ul style="list-style-type: none"> <li>• 1 Guest lectures is conducted for the students to get aware of some core related subjects, which are presented by eminent</li> </ul>



# AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY

(Approved by A.I.C.T.E., New Delhi & Permanently Affiliated to J.N.T.U.K, Kakinada)

NAAC "B++" Accredited Institute

Cherukupally (Village), Near Tagarapuvalasa Bridge, Vizianagaram (Dist) -531162.

www.aietta.ac.in, principal@aietta.ac.in

	<ul style="list-style-type: none"> <li>• Seminars/workshops</li> <li>• Compliance of department academic calendar</li> </ul>	<p>resource Persons.</p> <ul style="list-style-type: none"> <li>• Add-on Courses: 1 Programs are conducted for students Annexure 3.2</li> </ul>
8	MOU's with industries for internship	Internship with other industries is done and its evidences are enclosed. Annexure 3.3
9	Students feedback and follow up action	Needed action is taken up by students' feedback
10	<p>Scope for self learning</p> <ul style="list-style-type: none"> <li>• certificate courses</li> <li>• online courses</li> </ul>	Nil
11	Result analysis and conduct of remedial classes for students with backlogs	Based on the results of mid exams, remedial classes are conducted . Based on the results of main exams, backlog classes are conducted.
12	Placements ---( %):	Placements: 39% out of 105 students
13	Higher studies(%):	Higher Studies: Nil
14	<p>Student development activities:</p> <ul style="list-style-type: none"> <li>• Co-curricular</li> <li>• Extra-curricular activities</li> </ul>	Students are participated in co-curricular extra-curricular activities Annexure 3.5

## 4. Research consultancy and Extension

S.NO.	CRITERION	OBSERVATIONS
1	<p>Faculty Publications in journals:</p> <p>Peer review journals:</p> <p>Thomson Reuters Impact factor journals</p>	<p>Total No. Of Peer review journals:</p> <p>Nil</p> <p>No. SCOPUS/SCI Indexed journals:</p> <p>1</p>
2	<p>Publications in conferences:</p> <p>National:</p> <p>International:</p>	<p>National: 0</p> <p>International: 1</p>
3	Percentage of Faculty contributing in Research Publications:	15% Percentage of Faculty contributing in Research Publications:



# AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY

(Approved by A.I.C.T.E., New Delhi & Permanently Affiliated to J.N.T.U.K, Kakinada)

NAAC "B++" Accredited Institute

Cherukupally (Village), Near Tagarapuvalasa Bridge, Vizianagaram (Dist) -531162.

www.aietta.ac.in, principal@aietta.ac.in

4	Ph.D s registered: Submitted: Awarded: Ph.D. guiding/guided	Ph.D s : 1 registered:0 Submitted:0 Awarded:0 Ph.D. guiding/guided:0
5	Funded R&D projects and consultancy works:	Funded R&D projects are done and its evidence is enclosed in Anexure 4.1
6	Incentives for faculty R&D	Incentives for faculty Research publications as per HR policy
7	MOU's with industries/R&D/PremierInstitutes	MOU'S with industries and R&D Annexure: 4.2
8	Research centers of excellence established:	-----
9	Skill development center established	YES, Skill development center established in collaboration with APSSDC

## 5. Infrastructure and Learning resources

S.No	Criterion	Observations
1	Infrastructure facilities to improve teachinglearning process Class rooms: Laboratories: E-class rooms: Seminars: Faculty rooms:	Classrooms:4 Laboratories:1 E-classrooms: 1 Seminar halls: 1 Faculty rooms: 1
2	Internet facility for faculty and students:	Wi-Fi net is enabled
3	Technical and administrative staff support	3 members of Technical and 1membersof administrative support is provided. P. Santhosh---Technical Ch. Shiva --- Technical K. Thapalayya-- administrative Support
4	Department budget: Sanctioned amount: Amount spent:	



# AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY

(Approved by A.I.C.T.E., New Delhi & Permanently Affiliated to J.N.T.U.K, Kakinada)

NAAC "B++" Accredited Institute

Cherukupally (Village), Near Tagarapuvalasa Bridge, Vizianagaram (Dist) -531162.

www.aietta.ac.in, principal@aietta.ac.in

	New equipment added: Maintenance of equipment and consumableregisters in labs	
5	Details of computing facilities and software	Total number of computers:60
6	Dept, Newsletters and Magazine	YES
7	Department level library resources	YES

## 6. Student information support and progression

S.NO	Criterion	Observations
1	Add-on courses	1 Add-on courses are conducted 1. TALLY ERP 9.0
2	Student Publications: Dept. student E- Club:	Student Publications: Nil No. of E-club activities for students:1 Electoral literacy Club
3	Details for coaching provided for GATE/CRT/any other competitiveexaminations	External CRT classes are provided, 200classes for an academic year
4	Industrial visits and Internships	Industrial Visits:2 Internships: Nil

## 7. Governance, Leadership and Management

S.NO.	Criterion	Observations
1	Teaching and non-teaching attended for skilldevelopment programs	Both teaching and non-teaching staff are attended for skill development programs for an academic year 2019-2020
2	MOUs with premier institutions for knowledge exchange	MOU'S And its Annexure7.1



# AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY

(Approved by A.I.C.T.E., New Delhi & Permanently Affiliated to J.N.T.U.K, Kakinada)

NAAC "B++" Accredited Institute

Cherukupally (Village), Near Tagarapuvalasa Bridge, Vizianagaram (Dist) -531162.

www.aietta.ac.in, principal@aietta.ac.in

3	Display of vision, mission and quality objectives at prominent places	Yes
4	Staff and students' attendance monitoring system: -Biometric: Attendance Registers:	Regular follow up of biometric as well as Attendance registers.
5	Financial support/leaves for qualification/skill up-gradation:	Faculty members are sanctioned with Registration fees, TA and Academic Leave are also provide for attending conferences and workshops, extra leaves area sanctioned for faculty who undergo for research submission work.
6	Risk evaluation/safety measures	Maintaining fire extinguishers in all the prominent places and needed corners of college.

## 8. Strengths, weakness and areas of Improvement

### Strengths

- 1) Good faculty retention
- 2) Research and Development
- 3) More number of student placements cell
- 4) Strong department level support for faculty research activities
- 5) Supportive working environment among department members

### Weakness

- 1) Lack of Other state student attraction
- 2) Poor English-speaking capacity of the students.
- 3) Poor socio-economic status of the students.
- 4) There is a need to modernize classrooms with ICT facilities

### Opportunities:

- 1) By establishing stronger relationships with R&D organization.
- 2) Increase of research funding.
- 3) Interdisciplinary growth of core departments
- 4) Opportunity to maximize the potentiality of Centres of Excellence.



# AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY

(Approved by A.I.C.T.E., New Delhi & Permanently Affiliated to J.N.T.U.K, Kakinada)

NAAC "B++" Accredited Institute

Cherukupally (Village), Near Tagarapuvalasa Bridge, Vizianagaram (Dist) -531162.

www.aietta.ac.in, principal@aietta.ac.in

## Suggestions for Improvement

To overcome the challenges and improve the quality of education, evaluation can be done on the following factors such as maintenance of infrastructure, pedagogy skills, quality of teacher's education and extra-curricular as well as co-curricular activities.

*P. Venkatesh*  
Head of the Department  
ECE/EEE/BA Engineering

AVANTHI INSTITUTE OF ENGG. & TECH.  
Cherukupally (V), Chittivalasa (SAO)  
Bhogapuram (M), Vizianagaram (D)-531162

Sign. of Academic Auditors

*M*  
Dr. A. Chandra Sekhar  
Professor, Dept. of CSE

*Sharief*  
Mr. SK.H. Sharief  
Associate Professor, Dept. of MECH





# AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY

(Approved by A.I.C.T.E., New Delhi & Permanently Affiliated to J.N.T.U.K, Kakinada)

NAAC "B++" Accredited Institute

Cherukupally (Village), Near Tagarapuvalasa Bridge, Vizianagaram (Dist) -531162.

www.aietta.ac.in, principal@aietta.ac.in

## ACADEMIC AUDIT REPORT (2019-2020)

### DEPARTMENT OF BASIC SCIENCES AND HUMANITIES

A.Y : 2019-2020

SEM-I

Date of Audit: 28-12-2019

We, Dr. B. Avinash Ben and Mrs. K. Praveena were entrusted to carry out the audit work of Department of Basic Sciences and Humanities by the IQAC. The audit work was carried out with the consent and the presence of the Head of the Department and Department coordinators. The overall internal audit report was prepared & drafted based on the Academic Information Including strengths, weakness, and opportunities. The report was duly submitted along with suggestions to the IQAC

#### 1. COs, POs curriculum

S.NO.	CRITERION	OBSERVATIONS
1	COs and POs attainment	CO's and PO's attainment calculated by the faculty of BS&H and forwarded to concerned Department.
2	Stakeholders feedback related to curriculum design	Graduates exit survey; Alumni survey and employer survey are conducted and presented as consolidated as per format and sent by concerned Departments
3	Action taken on Minutes of Meeting	N/A
4	Percentage of Lab component	N/A
5	Evidence of academic flexibility	N/A

#### 2. Faculty information and their contribution

S.NO.	CRITERION	OBSERVATIONS
1	Student teacher ratio	1:19
2	Faculty cadre ratio Prof : Asso : Asst	Professors: 0 Associate Professor: 5 Assistant Professors: 21 Annexure:2.1



# AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY

(Approved by A.I.C.T.E., New Delhi & Permanently Affiliated to J.N.T.U.K, Kakinada)

NAAC "B++" Accredited Institute

Cherukupally (Village), Near Tagarapuvalasa Bridge, Vizianagaram (Dist) -531162.

www.aietta.ac.in, principal@aietta.ac.in

3	Faculty qualifications	Doctorates : 8 Ph.D Pursuing :3 M.Sc: 15
4	Faculty experience and retention	Annexure 2.2 is enclosed by mentioning the (list of faculty, qualifications, total experience, experience at AIET)
5	Faculty contribution in writing: --Books: --Book chapters:	Nil
6	Faculty in Professional bodies Faculty contributions	2 Faculty members are enrolled in Professional bodies and its evidence is enclosed
7	Faculty as resource persons in workshops/training activities	Training programs:1 FDP:0
8	International/national level events organized -- Training Programs --workshops/seminars: --FDP's :	FDP: 2 Annexure 2.3
9	List of conferences/seminars/workshops/FDP's/any exclusive programmes attended for enrichment of teaching-learning process	Conferences: Nil Seminars: Nil Workshops: 1 FDP's: 10 Annexure 2.4

### 3. Teaching learning process and evaluation

S.NO.	CRITERION	OBSERVATIONS
1	Student performances Attendance Exams	Lists of students Detention and condonation are maintained.
2	Mechanism and activities for slow learners improvements	Slow learners are identified based on performance in Mid-exams. Conducted extra classes for slow learners
3	Student counseling/mentoring mechanism	20 students are allotted for each



# AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY

(Approved by A.I.C.T.E., New Delhi & Permanently Affiliated to J.N.T.U.K, Kakinada)

NAAC "B++" Accredited Institute

Cherukupally (Village), Near Tagarapavalasa Bridge, Vizianagaram (Dist) -531162.

www.aietta.ac.in, principal@aietta.ac.in

		faculty member for better improvement of their academic results.
4	Initiatives taken for innovative projects	Nil
5	Review and evaluation of student projects: <ul style="list-style-type: none"> <li>Best Projects</li> </ul>	Not applicable
6	Monitoring of teaching-learning process <ul style="list-style-type: none"> <li>Observation of teaching process in class rooms as per schedule</li> <li>Tracking of syllabus coverage</li> <li>Uploading of Lecture notes, question papers of mid and semester end examinations in E-learning portal</li> <li>verification of evaluated answer papers</li> <li>checking the quality of mid examinations question papers</li> <li>Innovative teaching methods presented</li> <li>Verification of course files</li> <li>Minutes of class committee meetings and action taken</li> </ul>	<ul style="list-style-type: none"> <li>Regular verification of Attendance registers</li> <li>Uploading of course material with lesson plan.</li> <li>Track sheets are maintained to review syllabus coverage</li> </ul>
7	Training programmes conducted for students <ul style="list-style-type: none"> <li>Guest Lectures</li> <li>Add-on courses</li> <li>Seminars/workshops</li> <li>Compliance of department academic calendar</li> </ul>	Add-on Courses:2 Programs are conducted for students Annexure 3.1
8	MOU's with industries for internship	Not applicable
9	Students feedback and follow up action	Needed action is taken up by students feedback and its evidence is enclosed Annexure
10	Scope for self learning <ul style="list-style-type: none"> <li>certificate courses</li> <li>online courses</li> </ul>	N/A
11	Result analysis and conduct of remedial	<ul style="list-style-type: none"> <li>Remedial classes are conducted</li> </ul>



# AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY

(Approved by A.I.C.T.E., New Delhi & Permanently Affiliated to J.N.T.U.K, Kakinada)

NAAC "B++" Accredited Institute

Cherukupally (Village), Near Tagarapuvalasa Bridge, Vizianagaram (Dist) -531162.

www.aietta.ac.in, principal@aietta.ac.in

	classes for students with backlogs	to form an improvement from I Mid exam to II mid exam <ul style="list-style-type: none"> <li>• Extra classes are conducted for backlog students</li> </ul>
12	Placements --- (%): Industries/organizations:	N/A
13	Higher studies (%): <ul style="list-style-type: none"> <li>• Institutions:</li> </ul>	N/A
14	Student development activities: <ul style="list-style-type: none"> <li>• Co-curricular</li> <li>• Extra-curricular activities</li> </ul>	Students are participated both in co-curricular and extra-curricular activities Annexure 3.2

## 4. Research consultancy and Extension

S.NO.	CRITERION	OBSERVATIONS
1	Faculty Publications in journals: Peer review journals: Thomson Reuters Impact factor journals	Total No. Of Peer review journals: No. SCOPUS/SCI Indexed journals : Nil
2	Publications in conferences: National: International:	Nil
3	Percentage of Faculty contributing in Research Publications:	International: Nil
4	Ph.D s registered: Submitted: Awarded: Ph.D. guiding/guided	Registered:--3 Submitted: --Nil Awarded: 8 Guiding/guided: Nil
5	Funded R&D projects and consultancy works:	Nil
6	Incentives for faculty R&D	Nil
7	MOU's with industries/R&D/Premier Institutes	N/A
8	Research center of excellence established:	----
9	Skill development center established	YES, Skill development center established in collaboration with



# AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY

(Approved by A.I.C.T.E., New Delhi & Permanently Affiliated to J.N.T.U.K, Kakinada)

NAAC "B++" Accredited Institute

Cherukupally (Village), Near Tagarapuvalasa Bridge, Vizianagaram (Dist) -531162.

www.aietta.ac.in, principal@aietta.ac.in

		APSSDC
--	--	--------

## 5. Infrastructure and Learning resources

S.No	Criterion	Observations
1	Infrastructure facilities to improve teaching learning process Class rooms: Laboratories: E-class rooms: Seminars: Faculty rooms:	Classrooms:14 Laboratories:3 E-classrooms: 1 Seminar halls: 2 Faculty rooms: 4
2	Internet facility for faculty and students:	Wi-Fi net is enabled
3	Technical and administrative staff support	3 members of Technical and 3members of administrative support is provided. Ch. Rajani---- Attender Ch.Shiva---- Attender A.Srinu - ---- Attender P.Santhosh---Technical N.Chitti Babu-- Technical B.Appala Raju--- Technical
4	Department budget: Sanctioned amount: Amount spent: New equipment added: Maintenance of equipment and consumable registers in labs	
5	Details of computing facilities and software	Total number of computers:120 List of software procured:
6	Dept, Newsletters and Magazine	Yes
7	Department level library resources	Yes



# AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY

(Approved by A.I.C.T.E., New Delhi & Permanently Affiliated to J.N.T.U.K, Kakinada)

NAAC "B++" Accredited Institute

Cherukupally (Village), Near Tagarapuvalasa Bridge, Vizianagaram (Dist) -531162.

www.aietta.ac.in, principal@aietta.ac.in

## 6. Student information support and progression

S.NO	Criterion	Observations
1	Add-on courses	Add-on courses : 2 1. Fundamental and applications in computer vision 2. Nano technology and Nano Sensors
2	Student Publications: Dept. student E-Club:	Student Publications: Nil No. of E-club activities for students: Nil
3	Details for coaching provided for GATE/CRT/any other competitive examinations	External CRT classes are provided, 200 classes for an academic year
4	Industrial visits and Internships	3 Internships and 3 industrial visits are regularly conducted

## 7. Governance, Leadership and Management

S.NO.	Criterion	Observations
1	Teaching and non-teaching attended for skill development programs	Both teaching and non-teaching staff are attended for skill development programs for an academic year 2020-2021
2	MOUs with premier institutions for knowledge exchange	N/A
3	Display of vision, mission and quality objectives at prominent places	Yes
4	Staff and students attendance monitoring system: Biometric: Attendance Registers:	Regular follow up of biometric as well as Attendance registers.
5	Financial support/leaves for qualification/skill up-gradation:	Faculty members are sanctioned with Registration fees, TA and Academic Leave are also provide for attending



# AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY

(Approved by A.I.C.T.E., New Delhi & Permanently Affiliated to J.N.T.U.K, Kakinada)

NAAC "B++" Accredited Institute

Cherukupally (Village), Near Tagarapuvalasa Bridge, Vizianagaram (Dist) -531162.

www.aietta.ac.in, principal@aietta.ac.in

		conferences and workshops, extra leaves area sanctioned for faculty who undergo for research submission work.
6	Risk evaluation/safety measures	Maintaining fire extinguishers in all the prominent places of college.

## 8. Strengths, weakness and areas of Improvement

### Strengths

- 1) Good faculty retention
- 2) Strong department level support for faculty research activities
- 3) Supportive working environment among department members

### Weakness

- 1) Lack of NRI student attraction
- 2) Poor English speaking capacity of the students.
- 3) Poor socio-economic status of the students.
- 4) There is a need to modernize classrooms with ICT facilities

### Opportunities:

- 1) By establishing stronger relationships with R&D organization.
- 2) Increase of research funding.
- 3) Interdisciplinary growth of core departments
- 4) Opportunity to maximize the potentiality of Centres of Excellence.



# AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY

(Approved by A.I.C.T.E., New Delhi & Permanently Affiliated to J.N.T.U.K, Kakinada)

NAAC "B++" Accredited Institute

Cherukupally (Village), Near Tagarapuvalasa Bridge, Vizianagaram (Dist) -531162.

www.aietta.ac.in, principal@aietta.ac.in

## Suggestions for Improvement

To overcome the challenges and improve the quality of education, evaluation can be done on the following factors such as maintenance of infrastructure, pedagogy skills, quality of teacher's education and extra-curricular as well as co-curricular activities.

**HOD BS&H**

**Head of the Department**  
**Basic Sciences and Humanities (BS&H)**  
**AVANTHI INSTITUTE OF ENGG. & TECH.**  
Cherukupally (V), Near Tagarapuvalasa Bridge  
Vizianagaram (M), Vizianagaram (D)-531162

**Sign. of Academic Auditors**

**(Dr.B.Avinash Ben)**

**Associate Professor, HOD & Dept.**  
**of Mechanical**

**Mrs. K. Praveena**  
**Asst.Professor, Dept. of EEE**





# AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY

(Approved by A.I.C.T.E., New Delhi & Permanently Affiliated to J.N.T.U.K, Kakinada)

NAAC "B++" Accredited Institute

Cherukupally (Village), Near Tagarapuvalasa Bridge, Vizianagaram (Dist) -531162.

www.aietta.ac.in, principal@aietta.ac.in

## ACADEMIC AUDIT REPORT (2019-2020)

### DEPARTMENT OF MANAGEMENT STUDIES

ACADEMIC YEAR: 2019-2020

I-III SEMESTERS

DATE OF AUDIT: 30-12-2019

We, Dr R. Swapna and Mrs. K.Syamala were entrusted to carry out the audit work of Department of Management Studies by the IQAC. The audit work was carried out with the consent and the presence of the Head of the Department and Department coordinators. The overall internal audit report was prepared & drafted based on the Academic Information Including strengths, weakness, and opportunities. The report was duly submitted along with suggestions to the IQAC.

#### 1. COs, POs curriculum

S.NO.	CRITERION	OBSERVATIONS
1	COs and POs attainment	CO's and PO's attainment calculated as per the procedure established by PAC and (Annexure 1.1) is enclosed
2	Stakeholders feedback related to curriculum design	Graduates exit survey; Alumni survey and employer survey, teachers survey are conducted and presented as consolidated as per format. (Annexure 1.2)
3	Action taken on Minutes of Meeting	Incorporated changes as per the suggestions by DAC, PAC and it's Minutes of meeting, Curriculum changes and it's evidences are enclosed (Annexure 1.3)
4	Percentage of Lab component	20%(6/30)-R19 -Two additional experiments are conducted in all labs (Annexure 1.4)
5	Evidence of academic flexibility	1 Open elective+ 4 electives 29%(16/54)-R19 (Annexure 1.5)



# AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY

(Approved by A.I.C.T.E., New Delhi & Permanently Affiliated to J.N.T.U.K, Kakinada)

NAAC "B++" Accredited Institute

Cherukupally (Village), Near Tagarapuvalasa Bridge, Vizianagaram (Dist) -531162.

www.aietta.ac.in, principal@aietta.ac.in

## 2. Faculty information and their contribution

S.NO.	CRITERION	OBSERVATIONS
1	Student teacher ratio	19:1 13 faculty members are assigned to teach for 182 students
2	Faculty cadre ratio Prof : Assoc : Asst	Professors: 0 Associate Professor: 2 Assistant Professors: 11 Annexure: 2.1
3	Faculty qualifications	Doctorates : 1 Ph.D.Pursuing : 0
4	Faculty experience and retention	Annexure 2.2 is enclosed by mentioning the (list of faculty, qualifications, total experience, experience at AIET)
5	Faculty contribution in writing: <ul style="list-style-type: none"><li>• Books:</li><li>• Book chapters:</li></ul>	Books- Nil
6	Faculty in Professional bodies Faculty contributions	Nil
7	Faculty as resource persons in workshops/training activities	Training activities-2
8	International/national level events organized <ul style="list-style-type: none"><li>• Training Programs</li><li>• workshops/seminars:</li><li>• FDP's :</li></ul>	Training Programs: Nil Workshops/ seminars: Nil FDP-1
9	List of conferences/seminars/workshops/FDP's/any exclusive programmes attended for enrichment of teaching-learning process	Conferences: Nil Seminars: Nil Workshops: Nil FDP: 8 Annexure 2.5

## 3. Teaching learning process and evaluation

S.NO.	CRITERION	OBSERVATIONS
-------	-----------	--------------



# AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY

(Approved by A.I.C.T.E., New Delhi & Permanently Affiliated to J.N.T.U.K, Kakinada)

NAAC "B++" Accredited Institute

Cherukupally (Village), Near Tagarapuvalasa Bridge, Vizianagaram (Dist) -531162.

www.aietta.ac.in, principal@aietta.ac.in

1	Student performances Attendance Exams	List of students Detention and condonation are maintained.
2	Mechanism and activities for slow learners improvements	Slow learners are identified based on performance in Mid-exams. Conducted extra classes for slow learners
3	Student counselling/mentoring mechanism	20 students are allotted for each faculty member for better improvement of their academic results.
4	Initiatives taken for innovative projects	Nil
5	Review and evaluation of student projects: <ul style="list-style-type: none"> <li>• Best Projects</li> </ul>	5 Best projects are carried as per PRC guidelines Annexure 3.1 Annexure 3.1
6	<ul style="list-style-type: none"> <li>• Monitoring of teaching-learning process</li> <li>• Observation of teaching process in class rooms as per schedule</li> <li>• Tracking of syllabus coverage</li> <li>• Uploading of Lecture notes, question papers of mid and semester end examinations in E-learning portal</li> <li>• verification of evaluated answer papers</li> <li>• checking the quality of mid examinations question papers</li> <li>• Innovative teaching methods presented</li> <li>• Verification of course files</li> <li>• Minutes of class committee meetings and action taken</li> </ul>	<ul style="list-style-type: none"> <li>• Regular visit by the principal</li> <li>• CC surveillance</li> <li>• As per schedule, the coverage of syllabus is strictly followed . by any consequences if there is any lag-on of syllabus extra classes will be conducted</li> <li>• Track sheets are maintained to review syllabus coverage.</li> <li>• Evaluation of answer papers as per the allotment of marks</li> <li>• Yes, the quality of mid-exam question papers is regularly checked by exam cell co-ordinator and the Principal.</li> <li>• Interactive way of teaching</li> <li>• Regular verification of Attendance registers as well as the course files by HOD.</li> <li>• Minutes of meetings are regularly conducted to discuss the matters that are related to Time Tables, academic planning and its facilities provided.</li> </ul>



# AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY

(Approved by A.I.C.T.E., New Delhi & Permanently Affiliated to J.N.T.U.K, Kakinada)

NAAC "B++" Accredited Institute

Cherukupally (Village), Near Tagarapuvalasa Bridge, Vizianagaram (Dist) -531162.

www.aietta.ac.in, principal@aietta.ac.in

7	<p>Training programmes conducted for students</p> <ul style="list-style-type: none"> <li>• Guest Lectures</li> <li>• Add-on courses</li> <li>• Seminars/workshops</li> <li>• Compliance of department academic calendar</li> </ul>	<ul style="list-style-type: none"> <li>• 1 Guest lectures is conducted for the students to get aware of some core related subjects, which are presented by eminent resource Persons.</li> <li>• Add-on Courses: 1 Programs are conducted for students</li> </ul> <p>Annexure 3.2</p>
8	MOU's with industries for internship	<p>Internship with other industries are done and its evidences are enclosed.</p> <p>Annexure 3.3</p>
9	Students feedback and follow up action	<p>Needed action is taken up by students feedback</p>
10	<p>Scope for self learning</p> <ul style="list-style-type: none"> <li>• certificate courses</li> <li>• online courses</li> </ul>	<p>Faculty members were v e r y instrumental in designing and developing 1 Add- on and Certificate course programs.</p>
11	Result analysis and conduct of remedial classes for students with backlogs	<p>Based on the results of mid exams, remedial classes are conducted .</p> <p>Based on the results of main exams, backlog classes are conducted.</p>
12	Placements ---( %):	Nil
13	Higher studies(%):	Nil
14	<p>Student development activities:</p> <ul style="list-style-type: none"> <li>• Co-curricular</li> <li>• Extra-curricular activities</li> </ul>	<p>Students are participated in co-curricular extra-curricular activities</p> <p>Annexure 3.5</p>

## 4. Research consultancy and Extension

S. No	Criterion	Observations
1	<p>Faculty Publications in journals: Peer review journals: Thomson Reuters Impact factor journals</p>	<p>Total No. Of Peer review journals: Nil</p> <p>No. SCOPUS/SCI Indexed journals : 1</p>
2	Publications in conferences:	<p>National : 0</p> <p>International: 1</p>



# AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY

(Approved by A.I.C.T.E., New Delhi & Permanently Affiliated to J.N.T.U.K, Kakinada)

NAAC "B++" Accredited Institute

Cherukupally (Village), Near Tagarapuvalasa Bridge, Vizianagaram (Dist) -531162.

www.aietta.ac.in, principal@aietta.ac.in

	National: International:	
3	Percentage of Faculty contributing in Research Publications:	15% Percentage of Faculty contributing in Research Publications
4	Ph.D s registered: Submitted: Awarded: Ph.D. guiding/guided	Ph.D s : 1 registered:0 Submitted:0 Awarded:0 Ph.D. guiding/guided:0
5	Funded R&D projects and consultancy works:	Funded R&D projects are done and its evidence is enclosed in Annexure 4.1
6	Incentives for faculty R&D	Incentives for faculty Research publications as per HR policy
7	MOU's with industries/R&D/Premier Institutes	MOU'S with industries and R&D Annexure: 4.2
8	Research centers of excellence established:	-----
9	Skill development center established	YES, Skill development center established in collaboration with APSSDC

## 5. Infrastructure and Learning resources

S.No	Criterion	Observations
1	Infrastructure facilities to improve teaching learning process Classrooms Laboratories E-class rooms: Seminars: Faculty rooms:	Classrooms:4 Laboratories:1 E-classrooms: 1 Seminar halls: 1 Faculty rooms: 1
2	Internet facility for faculty and students:	Wi-Fi net is enabled
3	Technical and administrative staff support	2 members of Technical and 1 members of administrative support is provided. P.Santhosh---Technical Ch.Shiva ---- Technical



# AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY

(Approved by A.I.C.T.E., New Delhi & Permanently Affiliated to J.N.T.U.K, Kakinada)

NAAC "B++" Accredited Institute

Cherukupally (Village), Near Tagarapavalasa Bridge, Vizianagaram (Dist) -531162.

www.aietta.ac.in, principal@aietta.ac.in

		K.Thapulayya-- administrative Support
4	Department budget: Sanctioned amount: Amount spent: New equipment added: Maintenance of equipment and consumableregisters in labs	
5	Details of computing facilities and software	Total number of computers:60 List of Software: R Studio
6	Dept, Newsletters and Magazine	YES
7	Department level library resources	YES

## 6. Student information support and progression

S.NO	Criterion	Observations
1	Add-on courses	Add-on courses: 1. TALLY ERP 9.0
2	Student Publications: Dept. student E-Club:	Student Publications: Nil No. of E-club activities for students:1 Electoral literacy Club
3	Details for coaching provided for GATE/CRT/any other competitiveexaminations	External CRT classes are provided, 200classes for an academic year
4	Industrial visits and Internships	Industrial Visits:2 Internships: Nil

## 7. Governance, Leadership and Management

S.NO.	Criterion	Observations
1	Teaching and non-teaching attended for skilldevelopment programs	Both teaching and non-teaching staff are attended for skill development programs for an academic year 2019-2020



# AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY

(Approved by A.I.C.T.E., New Delhi & Permanently Affiliated to J.N.T.U.K, Kakinada)

NAAC "B++" Accredited Institute

Cherukupally (Village), Near Tagarapuvalasa Bridge, Vizianagaram (Dist) -531162.

www.aietta.ac.in, principal@aietta.ac.in

2	MOUs with premier institutions for knowledge exchange	MOU'S And its Annexure 7.1
3	Display of vision, mission and quality objectives at prominent places	Yes
4	Staff and students' attendance monitoring system: -Biometric: Attendance Registers:	Regular follow up of biometric as well as Attendance registers.
5	Financial support/leaves for qualification/skill up-gradation:	Faculty members are sanctioned with Registration fees, TA and Academic Leave are also provided for attending conferences and workshops, extra leaves are sanctioned for faculty who undergo for research submission work.
6	Risk evaluation/safety measures	Maintaining fire extinguishers in all the prominent places and needed corners of college.

## 8. Strengths, weakness and areas of Improvement

### Strengths

- 1) Good Research and Development cell
- 2) faculty retention
- 3) More number of student placements
- 4) Strong department level support for faculty research activities
- 5) Supportive working environment among department members

### Weakness

- 1) Lack of NRI student attraction
- 2) Poor socio-economic status of the students.
- 3) There is a need to modernize classrooms with ICT facilities



# AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY

(Approved by A.I.C.T.E., New Delhi & Permanently Affiliated to J.N.T.U.K, Kakinada)

NAAC "B++" Accredited Institute

Cherukupally (Village), Near Tagarapuvalasa Bridge, Vizianagaram (Dist) -531162.

www.aietta.ac.in, principal@aietta.ac.in

## Opportunities:

- 1) By establishing stronger relationships with R&D organization.
- 2) Increase of research funding.
- 3) Interdisciplinary growth of core departments
- 4) Opportunity to maximize the potentiality of Centers of Excellence

## Suggestions for Improvement

To overcome the challenges and improve the quality of education, evaluation can be done on the following factors such as maintenance of infrastructure, skills, quality of teacher's education and extra-curricular as well as co-curricular activities.

*V. Sai Prashanth*

**HOD-MBA**

Head of the Department

Master of Business Administration

**AVANTHI INSTITUTE OF ENGG. & TECH.**

Cherukupally (V), Near Tagarapuvalasa Bridge

Bhogapuram (M), Vizianagaram (D)-531162

**Sign. of Academic Auditors**

*Swapna*

Dr R. Swapna

Professor, Dept. of BS&H

*K. Syamala*

Mrs. K Syamala

Associate. Professor, Dept. of ECE