



# 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.

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## 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: 2020-2021

### Table of Contents

S.No.	Description	Page No.
<b>Academic Year: 2020-2021 (Semester-II)</b>		
1	Overall Action Taken Report on Department wise Academic and Administrative audit for Semester-II in the Academic year 2020-2021	3-10
2	IQAC circular for Department wise audit for Semester-II in the academic year 2020-2021	11-12
3	Academic Audit Report for the Department of Computer Science and Engineering(CSE) for Semester-II in the Academic year 2020-2021	13-22
4	Academic Audit Report for the Department of Electrical and Electronics Engineering(EEE) for Semester-II in the Academic year 2020-2021	23-29
5	Academic Audit Report for the Department of Electronics and Communication Engineering (ECE) for Semester-II in the Academic year 2020-2021	30-36
6	Academic Audit Report for the Department of Mechanical Engineering (MECH) for Semester-II in the Academic year 2020-2021	37-45
7	Academic Audit Report for the Department of Civil Engineering(CIVIL) for Semester-II in the Academic year 2020-2021	46-53
8	Academic Audit Report for the Department of Basic Sciences and Humanities (BS&H) for Semester-II in the Academic year 2020-2021	54-61
9	Academic Audit Report for the Department of Management Studies (MBA) for Semester-II in the Academic year 2020-2021	62-69
<b>Academic Year: 2020-2021 (Semester-I)</b>		
10	Overall Action Taken Report on Department wise Academic and Administrative audit for Semester-I in the Academic year 2020-2021	70-77
11	IQAC circular for Department wise audit for Semester-I in the academic year 2020-2021	78-80
12	Academic Audit Report for the Department of Computer Science and	81-89



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	Engineering(CSE) for Semester-I in the Academic year 2020-2021	
13	Academic Audit Report for the Department of Electrical and Electronics Engineering(EEE) for Semester-I in the Academic year 2020-2021	90-96
14	Academic Audit Report for the Department of Electronics and Communication Engineering (ECE) for Semester-I in the Academic year 2020-2021	97-104
15	Academic Audit Report for the Department of Mechanical Engineering (MECH) for Semester-I in the Academic year 2020-2021	105-113
16	Academic Audit Report for the Department of Civil Engineering(CIVIL) for Semester-I in the Academic year 2020-2021	114-121
17	Academic Audit Report for the Department of Basic Sciences and Humanities (BS&H) for Semester-I in the Academic year 2020-2021	122-129
18	Academic Audit Report for the Department of Management Studies (MBA) for Semester-I in the Academic year 2020-2021	130-137



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## Over All Action Taken Report on Department wise Academic and Administrative Audit for Semester-II in the academic year 2020-2021

As per the IQAC decision, Dr. Gandhi Satyanarayana, issued a circular on 9-6-2021 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 Engineering	SEM -II Dr.R.SuapnaMrs.K.Praveena
2	Electronics Communication Engineering	SEM -II Dr.RajaSantosh Mr.G.Chinna rao
3	Electrical And Electronics Engineering	SEM -II Dr.RajaSantosh Mr.G.Chinna rao
4	Mechanical Engineering	SEM -II Dr.Chandra sekhar Mr.G.Chinna rao
5	Civil Engineering	SEM -II Dr.V.Sai Prasanth Mr.A.Arjun rao
6	Basic Sciences And Humanities	Dr.A.Sai Prasanth Mr.R. Venkatesh
7	Master Of Business Administration	SEM -II Dr.B.Avinash Ben Mr.R. Venkatesh

### I.CO POs curriculum

- COs and PO attainment:** As per the procedure established, regarding the CO's and PO's attainment, faculty calculated for the departments of CSE,MECH,ECE,EEE,CIVIL & MBA and sent to concerned H.O.D's. It is observed that attainments which are done by the faculty are satisfactory.
- Stakeholder's feedback related to curriculum design:** Stakeholder's survey required for vision, mission PEOs analysis was done and it is acceptable.



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- 3. Action taken on Minutes of Meeting:** Minutes of meetings were conducted for incorporate curriculum changes advised by DAC, PAC with its evidences, and the required action was taken for further improvement.
- 4. Academic Flexibility:** Faculty flexibility in handling number of subjects are suggested to participate in add on, value added courses and extracurricular activities make them to have full freedom to plan and execute these outreach programs.

## 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 : 30 Requirement: 0**
  - **ECE department: Faculty Availability : 26 Requirement: 0**
  - **MECH department: Faculty Availability : 31 Requirement: 0**
  - **EEE department: Faculty Availability : 17 Requirement: 0**
  - **CIVIL department: Faculty Availability : 9 Requirement: 0**
  - **BS&H department: Faculty Availability: 17 Requirement: 8**
  - **MBA department: Faculty Availability : 13 Requirement: 0**

**Action taken:** It is found that BS& H is lag of faculty of at least 7 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:** We find that the faculty from EEE and Mechanical departments are found to be lag in research activities, so action report was taken to engage the faculty in research and make them to publish papers, books by enrolling them as the Professional members of various research bodies.



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**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 MBA , as the resource persons, so action plan is proposed to support research development for further innovative skills.

- I. **CSE:** 2 Faculties are initiated as the resource persons for 2 Training programs
- II. **ECE:** 2 Faculties are initiated as the resource persons for 2 Training programs
- III. **MECH:** 2 Faculties are initiated as the resource persons for 2 Training programs
- IV. **EEE:** 1 Faculty is initiated as the resource person for 1 Training program
- V. **CIVIL:** 2 Faculties are initiated as the resource persons for 2 Training programs
- VI. **BS&H:** Not conducted.
- VII. **MBA:** Not conducted

**Action taken:** The IQAC committee members are given an advice to EEE and MBA, BS&H Departments 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 semesterwise 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 CSE, Mechanical, so by verifying the documents supported, we advised to conduct extra-remedial and tutorial classes for them.
3. **Student counseling/mentoring mechanism:** It is satisfactory by taking 20 students who are allotted for each faculty member for better improvement of their academic results.
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.



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5. **Teaching-learning process:** By the earlier suggestions taken by IQAC committee, teaching- learning process is found to be efficient, by conducting in the form of lectures, case studies, class room participation, assignments, debates among teams on subjects, by using audio visual teaching. In those, it is found that, the best practices of providing course material to the students of all the departments with satisfactory note.
6. **Monitoring of teaching process:** Monitoring process is found to be done by regular visit of the principal through CC surveillance, syllabus coverage is identified by maintaining track sheets, and evaluation of answer papers as per the allotment of marks and the quality of mid-exam question papers which is regularly checked by exam cell coordinator and the Principal. So, we reported as satisfactory.
7. **Result analysis:** The percentage of III/I results is found to be low in the departments of CIVIL, ECE, Mechanical. 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	32	23	9	71.88
EEE	56	16	40	28.57
MECH-A	48	18	30	37.50
MECH-B	49	19	30	38.78
MECH-C	45	11	34	24.44
ECE	50	25	25	50.00
CSE-A	49	25	24	51.02
CSE-B	48	27	21	56.25



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- 8. MOU's with industries for internship:** As we found that there are only few MOU's in departments such as EEE, CIVIL, MECH, 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 follow up the teaching process in more practical based. So, in audit report, we noted that there is lag of taking feedback in MBA and CIVIL departments, so we suggested maintaining the student's feedback follow up action.

## IV Research consultancy and Extension:

- 1. Promotion of Research:** It is found, Institution supported the faculties of EEE, ECE departments to pursue research degrees by providing them, the required leaves to complete and submit their final draft of research thesis.
- 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 are 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:** The 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.

**CSE: 3      MECH: 11      ECE: 1      EEE: 2      CIV: 3**

**Action Taken:** When compared to all the departments, we are suggested to EEE, ECE to collaborate with some more MOU's for next academic year.

- 5. 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.



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6. **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:** We are audited the report, that the Institute has a well-planned library and internet facility to cater to the needs of research with a facility of Online journal/E- content journals by available library timings. So it is 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 access 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

**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 for smooth handling of office tasks.

3. **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.
4. **Details of computing facilities and software:** It is proposed to provide open source computing platform for the students, staff and faculty of this Institute by providing support for 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 an employment oriented skill based courses. So, in coming academic year, the number of Add-on-courses of all the departments, especially MBA, CIVIL is to be increased. Further action is taken to ensure practical training, in its quality of skill-oriented manner





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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 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.

a. CSE: 75% ECE: 82 % EEE: 56% CIVIL: 65% MECH:65%

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

- 3. Industrial visits and Internships:** The industrial visit has its own importance in a career of 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 and ECE 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 taken to improve the surveillance methods.



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- 4. Financial support/leaves for qualification/skill up-gradation:** After verifying all the departments, the external and internal provisions such as financial support and leaves are suggested to provide for the faculty in full-pledged way, for upgrading their qualification and research activities.
- 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)

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## CIRCULAR

### Internal Quality Assurance Cell (IQAC)

#### ACADEMIC AUDIT (2020-2021)

Date: 9-6-2021

From

The coordinator of IQAC

Avanathi Institute of Engineering and Technology

Cherukupally,

Near Tagarapuvalasa Bridge,

Vizianagaram-531162.

To

The Principal

Avanathi 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 2020-2021 as per the team given below and as per the schedule from 20<sup>th</sup> to 31<sup>th</sup> Dec2020. And 20<sup>th</sup> to 30<sup>th</sup> June 2021. 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. Swapna Mrs. K. Praveena	21-06-2022
2	Electronics And Communication engineering	SEM-II Dr.RajaSantosh Mr.G.Chinnarao	26-06-2021



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3	Electrical And electronics engineering	SEM-II Dr.Raja Santosh Mr.G.Chinnarao	24-06-2021
4	Mechanical engineering	SEM -II Dr.Chandrasekhar Mr.G.Chinnarao	22-06-2021
5	Civil engineering	SEM -II Dr.V.Sai Prasanth Mr.A.Arjunrao	29-06-2021
6	Basic sciences and humanities	SEM-II Dr.A.Sai Prasanth Mr.R.Venkatesh	23-06-2021
7	Master Of Business Administration	SEM-II Dr.B.Avinash Ben Mr.R.Venkatesh	30-06-2021

Copy to:

The Principal

All the Department H.O.D's

The Members of IQAC

  
Principal

PRINCIPAL

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IQAC Coordinator

COORDINATOR, IQAC  
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## ACADEMIC AUDIT REPORT (2020-2021) DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

ACADEMIC YEAR: 2020-2021

II SEMESTER

DATE OF AUDIT: 21-06-2021

We, Dr. R. Swapna 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	23.07%(4.5/19.5) - R20 19.04% (4/21) -R19 13.34% (6/45) -R16 M.Tech 44.4%(8/18)-R19 -Two additional experiments are conducted in all labs (Annexure 1.4)



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5	Evidence of academic flexibility	2 Core electives 13.34%(6/45)- R16 M.Tech 2 core electives 86.3% (19/22) -R19 76.9% (15/19.5) -R20 (Annexure 1.5)
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## 2. Faculty information and their contribution

S.NO.	CRITERION	OBSERVATIONS
1	Student teacher ratio	19:1  30 faculty members are assigned to teach for 367 students
2	Faculty cadre ratio Prof:Assoc: Asst	Professors: 4 Associate Professor: 2 Assistant Professors: 24 Annexure:2.1
3	Faculty qualifications	Doctorates : 4 Ph.D. Pursuing :2 M.Tech: 24
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 enclosed in annexure 2.3



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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	Training Program:9 Conferences: Nil Seminars: Nil Workshops: 6 FDP's: 11

### 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	<ul style="list-style-type: none"><li>• Regular visit by the principal</li><li>• CC surveillance</li></ul>



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	<p>rooms as per schedule ---Tracking of syllabus coverage</p> <p>-</p> <p>--Uploading of Lecture notes, question papers of mid and semester end examinations in E-learning portal</p> <p>---verification of evaluated answer papers</p> <p>---checking the quality of mid examinations question papers</p> <p>---Innovative teaching methods presented</p> <p>---Verification of course files</p> <p>---Minutes of class committee meetings and action taken</p>	<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> <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>• 1 Guest lecture was conducted for the students to get aware of some core related subjects, which are presented by eminent resource Persons.</li> <li>• Add-on Courses:6 Programs are conducted for students</li> </ul> <p>: Annexure 3.2</p>
8	<p>MOU's with industries for internship</p>	<p>Internship with other industries are done</p>





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9	Students feedback and follow up action	Needed action is taken up by students feedback and its evidence is enclosed Annexure 3.3
10	Scope for self learning ---certificate courses ---online courses	Faculty members were very instrumental in designing and developing 6 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> Result analysis annexure 3.4
12	Placements ---( %): Industries/organizations:	(87.5% ) out of 80 students , 70 candidates are selected in different companies Annexure 3.5
13	Higher studies(%): --Institutions:	2 students are successfully progressed for higher studies. <ol style="list-style-type: none"> <li>1) Mylapilli Bala Krishna (M.S in Florida Atlantic Universty)</li> <li>2) Janaki Ram Sai Sampathsurisetty (M.S. in Northern Arizona University)</li> </ol>
14	Student development activities: ---Co-curricular ---Extra-curricular activities	Students are participated both in co-curricular and extra-curricular activities Annexure 3.6

## 4. onsultancy 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
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2	Publications in conferences: National: International:	International: 1
3	Percentage of Faculty contributing in Research Publications:	3.3 Percentage of Faculty contributing in Research Publications
4	Ph.D s registered: Submitted: Awarded: Ph.D. guiding/guided	Registered:--2 Submitted: --Nil Awarded: 4 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 centers of excellence established:	Recognized as JNTUK Research center of excellence for the academic year 2020-2021
9	Skill development center established	YES, Skill development center established in collaboration with APSSDC



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## 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:12 Laboratories:8 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 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:560 List of software procured, is enclosed in Annexure 5.1
6	Dept, Newsletters and Magazine	Monthly:3 Bi-monthly:2



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		Quarterly: 4 Yearly:11 Half-yearly: 8
7	Department level library resources	NO. of Titles:36 NO. of Volumes:156NO. of Journals:14 No. Of International Journals:6NO. of E- Journals:64

## 6. Student information support and progression

S.NO	Criterion	Observations
1	Add-on courses	Add-on courses are conducted:6 <ul style="list-style-type: none"><li>• Full stack Development</li><li>• Cyber Security</li><li>• Web Page Development using HTML &amp; PHP</li><li>• MongoDB</li><li>• Android Applications</li><li>• Advanced Java Programming</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	.



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## 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 2020-2021
2	MOUs with premier institutions forknowledge exchange	MOUs And its Annexure 7.1
3	Display of vision, mission and qualityobjectives at prominent places	Yes
4	Staff and students attendance monitoringsystem: -Biometric: Attendance Registers:	Regular follow up of biometric as well as Attendance registers.
5	Financial support/leaves for qualification/skillup-gradation:	Faculty members are sanctioned with Registration fees, TA and Academic Leave are also provide for attending conferences and workshops, extra leavesarea 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 ofcollege.

## 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.



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## 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

## 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

**Sign. of Academic Auditors**

**Dr.R. Swapna**

**Prof. of BS&H**

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

**Mrs.K.Praveena**

**Asst. Prof. Dept of EEE**



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## ACADEMIC AUDIT REPORT (2020-2021)

### DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

ACADEMIC YEAR: 2020-2021

II SEM

DATE OF AUDIT: 24-06-2021

We, Dr. A. Raja Santosh and Mr. G. Chinna 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.CO's, PO's curriculum

S.NO.	CRITERION	OBSERVATIONS
1	CO's and PO's 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 it's Minutes of meeting, Curriculum changes and it's evidences are enclosed (Annexure 1.3)
4	Percentage of Lab component	23.07%(4.5/19.5) 1-2 in R20 14.28%(3/21) 2-2 in R19 42.85%(9/21) 3-2 in R19 12.5%(3/24) 4-2 in R16 <b>M.TECH</b> 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)
5	Evidence of academic flexibility	76.92%(15/19.5) 1-2 in R20 85.71%(18/21) 2-2 in R19 57.14%(12/21) 3-2 in R19 37.5%(9/24) 4-2 in R16 <b>M.TECH</b> 33.33%(6/18)-R19 for PS(2P.E)



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		33.33%(6/18)-R19 for PE(2P.E) Annexure 1.4
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## 2. Faculty information and their contribution

S.NO.	CRITERION	OBSERVATIONS
1	Student teacher ratio	19:1 16 Faculties are assigned for students 170
2	Faculty cadre ratio Prof : Assoc : Asst	Professors: 1 Associate Professor: 2 Assistant Professors: 13 Annexure:2.1
3	Faculty qualifications	Doctorates: 1 Ph.D.Pursuing : 1 M.Tech: 14
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
9	List of conferences/seminars/workshops/FDP's/any exclusive programmes attended for enrichment of teaching-learning process	Conferences: Nil seminars :12 workshops: Nil FDP's :23

## 3. Teaching learning process and evaluation





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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 calendar</li></ul>	Add-on Courses: 2 Programs are conducted for students :Annexure 3.2
8	MOU's with industries for internship	Internship with other industries are done



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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</li> </ul> Annexure 3.3
12	Placements ---( %): Industries/organizations:	(56%) out of 56 students, 30 candidates are selected in different 20 companies Annexure 3.4
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:	11% of Faculty contributing in Research Publications
4	Ph.D s registered: Submitted: Awarded: Ph.D. guiding/guided	Registered:--2 Submitted: --Nil Awarded: 0 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 center established in collaboration with



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	APSSDC
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## 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	3 members of Technical and 2 members of Lab Assistant support is provided. P.Santhosh---Technical Ch.Shiva---- Technical K.Thapulayya--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 are conducted:2 1. Internet of things 2. MATLAB
2	Student Publications: Dept. student E-Club:	Student Publications: Nil No. of E-club activities for students: 2



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		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	I(EEE)-32, II(EEE)-49, III(EEE)-58 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 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



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- 2) Poor socio-economic status of the students.
- 3) There is a need to modernise 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-EEE

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

Sign. of Academic Auditors

  
(Dr. Raja Santosh)

Professor ,Dept of Mech

  
(Mr. G. Chinna Rao)

Assoc. Professor, Dept of BS&H



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## ACADEMIC AUDIT REPORT (2020-2021)

### DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

AY: 2020-2021

II SEM

DATE OF AUDIT: 26-06-2021

We, Dr. A. Raja Santosh and Mr. G. Chinna 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. 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	56.4% (11/19.5) - R20 35.71% (15/42) - R19 18% (4/42) - 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 Professional Electives 27.2% (6/22) - R16 M.Tech 3 P.E + 1 O.E



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		24% (12/50)-R19 (Annexure 1.5)
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## 2. Faculty information and their contribution

S.NO.	CRITERION	OBSERVATIONS
1	Student teacher ratio	19:1 26 faculty members are assigned to teach for 120 students
2	Faculty cadre ratio Prof : Assoc : Asst	Professors: 2 Associate Professor: 5 Assistant Professors: 19 Annexure:2.1
3	Faculty qualifications	Doctorates : 2 Ph.D. Pursuing :3 M.Tech: 21
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: • 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: Nil FDP's: 28

## 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	Slow learners are identified based on



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	learnersimprovements	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 classrooms 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	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>• 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:3 Programs are conducted for students: Annexure 3.2</li> </ul>
8	MOU's with industries for internship	Internship with other industries is done





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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 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> </ul> Annexure 3.3
12	Placements (%): Industries/organizations:	(76.56% ) out of 56 students , 43 candidates are selected in different 20companies Annexure 3.4
13	Higher studies (%): Institutions:	1 student is successfully progressed for higher studies. Revathi Durgas i is joined for M.Tech in Andhra university.
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

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:	15 Percentage of Faculty contributing in Research Publications
4	Ph.D. s registered: Submitted: Awarded: Ph.D. guiding/guided	Registered: 3 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	MOUs with industries and R&D annexure:4.2



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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 <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
2	Internet facility for faculty and students:	Wi-Fi net is enabled
3	Technical and administrative staff support	5membersofTechnicalsupportisprovided. P.Santhosh-Technical Ch.Shiva-Technical T.Jyothi-Technical G.Guruvulu-Technical K.Thapulayya-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:60 Listofsoftwareprocured: 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



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## 6. Student information support and progression

S.NO	Criterion	Observations
1	Add-on courses	Add-on courses : 3 1.PLC/SCADA/DCS 2.PCB designing 3.Tannar Tools
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	I(ECE)-90,II(ECE)-111,III(ECE)-55 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.



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## 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 modernise 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-ECE**

**Head of the Department**

**Electronics & Communication Engineering**

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**VIZIANAGARAM (DIST)**

**Sign. of Academic Auditors**

(Dr R. Raja Santosh)

Professor, Dept of Mech

(Mr. G. Chinna Rao)

Assoc, Professor, Dept of BS&H



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## ACADEMIC AUDIT REPORT (2020-2021)

### DEPARTMENT of MECHANICAL ENGINEERING

**ACADEMIC YEAR** : 2020-2021 **II SEMESTER**

**DATE OF AUDIT** : 22-06-2021

We, Dr. A. Chandra Sekhar and Mrs. G. Chinna 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 its Minutes of meeting, Curriculum changes and its evidences are enclosed (Annexure 1.3)
4	Percentage of Lab component	22%(13.5/61.5) <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	14.3% (3/21) <b>R19</b> 12.5%(3/24) <b>R16</b> <b>M.TECH</b> 33.33(6/18) <b>R19 (2P.E)</b> (Annexure 1.5)



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## 2. Faculty information and their contribution

S.NO.	CRITERION	OBSERVATIONS
1	Student teacher ratio	19:1 31 faculty members are assigned to teach for 452 students
2	Faculty cadre ratio Prof : Assoc : Asst	Professors: 2 Associate Professor: 5 Assistant Professors: 24 Annexure:2.1
3	Faculty qualifications	Doctorates : 2 Ph.D.Pursuing :14 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: --Books: --Book chapters:	Books-2
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:2
8	International/national level events organized -- Training Programs --workshops/seminars: --FDP's :	FDP's : 1
9	List of conferences/seminars/workshops/FDP's/any exclusive programmes attended for enrichment of teaching-learning process	Conferences: 14 Seminars: Nil Workshops: Nil FDP's: 26 Training Program: Nil Annexure 2.4



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## 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 registers as well as the course files by</li> </ul>



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		<p>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>• 5 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: 5 Programs are conducted for students</li> <li>• Seminar:2</li> <li>• Workshops: 2</li> <li>• 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            ---certificate courses            ---online courses</p>	<p>Faculty members were very instrumental in designing and developing 5 Add-on and Certificate course programs.</p> <ol style="list-style-type: none"> <li>1. ANSYS DESIGNS</li> <li>2. CATIA</li> <li>3. PRO-E</li> <li>4. NDT</li> <li>5. CFD</li> </ol>
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>	(61.87%) students , 99 candidates are selected in different 19 companies





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		Annexure 3.4
13	Higher studies(%): --Institutions:	2 Students successfully progressed for higher studies. 1. Kanchu boyina. Pavan Mtech-Gitam University 2. Dwarapureddy. Hari krishna Mtech-Visakha institute of Engineering and Technology
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 :Nil
2	Publications in conferences: National: International:	National conferences :9
3	Percentage of Faculty contributing in Research Publications:	(12.90% ) 7 faculties contributing in Research Publications
4	Ph.D s registered: Submitted: Awarded: Ph.D. guiding/guided	Registered:--11 Submitted: --Nil Awarded:2 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



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## 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



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7	Dept. level library resource	Yes
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## 6. Student information support and progression

S.NO	Criterion	Observations
1	Add-on courses	5 Add-on courses are conducted 1. ANSYS DESIGNS 2. CATIA 3. PRO-E 4. NDT 5. CFD
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:2 Internships: MECH(IIIYEAR): 114 MECH(IVYEAR):155are 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.



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

### 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.



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## 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 & HOD,  
Dept. of CSE

  
Mr. G. Chinna Rao  
Assoc. Prof., Dept. of BS&H



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## ACADEMIC AUDIT REPORT (2020-2021)

### DEPARTMENT OF CIVIL ENGINEERING

AY: 2020-2021

II SEM

DATE OF AUDIT:30-06-2021

We, Dr. B. Avinash Ben and Mr. R.Venkatesh 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 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	78.9%% (15/19) II/II- <b>R19</b> 54.5% (12/22) III/II 32.6% (15/43) IV/II- <b>R16</b> Two additional experiments are conducted in all labs (Annexure 1.4)
5	Evidence of academic flexibility	2 Core electives 137.5% (9/24) IV/II- <b>R16</b> (Annexure1.5)

#### 2. Faculty information and their contribution

S.NO.	CRITERION	OBSERVATIONS
1	Student teacher ratio	13:1 9 faculty members are assigned to teach for students



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2	Faculty cadre ratio Prof: Assoc: Asst	Professors: Nil Associate Professor: Nil Assistant Professors:9 Annexure:2.1
3	Faculty qualifications	Doctorates: Nil Ph.D. Pursuing: NilM.Tech: 9
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: • Books: Book chapters:	Nil
6	Faculty in Professional bodies Faculty contributions	4 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:2
8	International/national level events organized • Training Programs • workshops/seminars: FDP's:	FDP's: 2 Annexure 2.4
9	List of conferences/seminars/workshops/FDP's/any exclusive programmes attended for enrichment of teaching-learning process	To enrich teaching and learning process, faculty of Mechanical Department attended workshops/FDP's /Training Programs and its evidences are enclosed in Annexure 2.5



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## 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 <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> </ul> 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> </ul> Minutes of meetings are regularly





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		conducted to discuss the matters that are related to Time Tables, 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> </ul> <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:6 Programs are conducted for students</li> </ul> <p style="text-align: right;">: Annexure 3.2</p>
8	MOU's with industries for internship	<p>Internship with other industries is done and its evidences are enclosed.</p> <p style="text-align: center;">Annexure 3.3</p>
9	Students feedback and follow up action	<p>Needed action is taken up by students' feedback and its evidence is enclosed</p> <p style="text-align: center;">Annexure 3.4</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 very instrumental in designing and developing 6Add-on and Certificate course programs.</p>
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> </ul> <p>Based on the results of main exams, backlog classes are conducted.</p>
12	Placements (%): Industries/organizations:	<p>(65%) students, 117 candidates are selected in different 42 companies</p> <p style="text-align: center;">Annexure 3.5</p>



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13	Higher studies (%): • Institutions:	--
14	Student development activities: • Co-curricular • Extra-curricular activities	Students are participated both in co-curricular and extra-curricular activities Annexure 3.6

## 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:
2	Publications in conferences: National: International:	Nil
3	Percentage of Faculty contributing in Research Publications:	
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
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



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## 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:5 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	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	Twenty-Five Lakhs Fifty Thousand Rupees
5	Details of computing facilities and software	60 systems are provided to the students
6	Dept, Newsletters and Magazine	Monthly:3 Bi-monthly:2 Quarterly: 4 Yearly:11 Half-yearly: 8
7	Department level library resources	NO. of Titles:24 NO. of Volumes:118 NO. of Journals:14 No. Of International Journals:4 NO. of E-Journals:18



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## 6. Student information support and progression

S.NO	Criterion	Observations
1	Add-on courses	Add-on courses are conducted
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	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/skillup-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.



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## 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 modernise 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.

*S. Venkatesh*

**HOD-CIVIL**

**Head of the Department  
Civil Engineering**

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Bhogapuram (M), Vizianagaram (D)-531162**

**Sign. of Academic Auditors**

*V. Sai Prasanth*  
**Dr V Sai Prasanth  
Assoc Professor, Dept,  
of CSE**

*R Swapna*  
**Dr R Swapna  
Professor, Dept. of BS&H**



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## ACADEMIC AUDIT REPORT (2020-2021)

### DEPARTMENT OF BASIC SCIENCES AND HUMANITIES

A.Y : 2020-2021

SEM-II

Date of Audit:23-06-2021

We, Dr. A. Sai Prasanth and Mr. R. Venkatesh 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: 4 Assistant Professors: 22 Annexure:2.1



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3	Faculty qualifications	Doctorates : 8 Ph.D Pursuing :2 MSc: 16
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 Annexure2.3
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 2.4
9	List of conferences/seminars/workshops/FDP's/any exclusive programmes attended for enrichment of teaching-learning process	Conferences: 1 Seminars: Nil Workshops: Nil FDP's: Nil  Annexure 2.5

### 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



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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>	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:3 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





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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 I Mid exam to II mid exam</li> <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 :1
2	Publications in conferences: National: International:	Nil
3	Percentage of Faculty contributing in Research Publications:	
4	Ph.D s registered: Submitted: Awarded: Ph.D. guiding/guided	Registered:2 Submitted: --Nil Awarded: 8 Guiding/guided: Nil
5	Funded R&D projects and consultancy works:	Nil
6	Incentives for faculty R&D	Incentives for faculty Research publications as per HR policy.
7	MOU's with industries/R&D/Premier Institutes	N/A
8	Research center of excellence established:	----



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9	Skill development center established	YES, Skill development center established in collaboration with APSSDC
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## 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 3 members of administrative support is provided. P.Santhosh--- Technical N.Chitti Babu-- Technical B.Appala Raju --- Technical Ch. Rajani---- administrative Ch.Shiva---- administrative B.Ewarrao---- administrative
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



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7	Department level library resources	Yes
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## 6. Student information support and progression

S.NO	Criterion	Observations
1	Add-on courses	Add-on courses :3 1. Business English basic level 2. Reading skills basic level 3. Astro Physics
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.



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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) 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.



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## 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 Tagarapavalasa Bridge**  
**Bhogapuram (M), Vizianagaram (D)-531162**

**Sign. of Academic Auditors**

**Dr. A. Sai Prasanth**  
**Associate Professor, HOD & Dept.**  
**of MBA**

**Mr. R. Venkatesh**  
**Asst. Professor, Dept. of Civil**



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## ACADEMIC AUDIT REPORT (2020-2021)

### DEPARTMENT OF MANAGEMENT STUDIES

ACADEMIC YEAR: 2020-2021

II-IV SEMESTERS

DATE OF AUDIT: 30-06-2021

We, Dr. B. Avinash Ben and Mr. R. Venkatesh 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
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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: 1 Assistant Professors: 12 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.



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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>





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	<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:3 Programs are conducted for students Annexure 3.2</li> </ul>
8	MOU's with industries for internship	Internship with other industries are 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. Annexure 3.4
12	Placements ---( %):	Placements:35%out of 59students
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>4</p>
2	<p>Publications in conferences:</p> <p>National:</p> <p>International:</p>	<p>National:2</p> <p>International:2</p>
3	Percentage of Faculty contributing in Research Publications:	30%Percentage of Faculty contributing in Research Publications:



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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:	



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	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	3 Add-on courses are conducted 1. Tally ERP 9.0 2. Business analytics with R Programming 3. Personal Administration & Time Management
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 2020-2021



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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 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.



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- 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-MBA**

**Head of the Department**

**Master of Business Administration**

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**Bhogapuram (M), Vizianagaram (D)-531162**

**Sign. of Academic Auditors**

**Dr. B. Avinash Ben**

**Associate Professor, Dept. of MECH**

**Mr. R. Venkatesh**

**Asst. Professor, Dept. of Civil**



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## Over All Action Taken Report on Department wise Academic and Administrative Audit for Semester-I in the academic year 2020-2021

As per the IQAC decision, Dr. Gandhi Satyanarayana, issued a circular on 10-12-2020 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 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.M.Sumathi
2	Electronics And Communication Engineering	SEM -I Dr.R.Swapna Mr.R.Venkatesh
3	Electrical And Electronics Engineering	SEM -I Dr.A.Bala krishna Mrs.M.Sumathi
4	Mechanical Engineering	SEM -I Dr.P.Krishna rao Mr.R.Venkatesh
5	Civil Engineering	SEM -1 Dr. A.Bala krishna Mrs.K.Praveena
6	Basic Sciences And Humanities	SEM -1 Dr.A.Sai Prasanth Mr.R.Venkatesh
7	Master Of Business Administration	SEM -I Dr.H.Mallassam Dora Mr.G.Chinna rao

### I.CO POs curriculum

- COs and PO attainment:** As per the procedure established, regarding the CO's and PO's attainment, faculty calculated for the departments of CSE,MECH,ECE,EEE,CIVIL & MBA and sent to concerned H.O.D's. It is observed that attainments which are done by the faculty are satisfactory.
- Stakeholder's feedback related to curriculum design:** Stakeholder's survey required for



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Tutorials/Assignments which are to be given for the students and Extra classes are to be conducted to give thorough practice in problem solving to motivate students for the participation in problem solving methodologies.

For ECE department, as per discussion done by Audit, it is suggested to strengthen PO8, plan to conduct awareness programs on ethics mechanism.

2. **Stakeholder's feedback related to curriculum design:** Stakeholder's survey required for PEOs analysis which was done and it is acceptable but advised to improve some more value added courses, workshops, guest lectures in all the departments.

It has been decided to apply more tools, case-studies, and activities in the curriculum to make it more application-oriented and enhance employability skills.

Entrepreneurship skills, human values, ethics and lifelong learning have been prioritized to enhance the scope of the syllabus and bridge the gap.

Current trends and practices in the academia and industry have been included to adapt the syllabus to meet the present job-market needs.

Students are being constantly trained to update their knowledge and skills in order to adapt to the present industry needs.

The fundamentals of engineering and focusing on basic concepts have been prioritized to groom the students for more advanced concepts.

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 EEE department I sem, PAC group is not implemented in full pledged manner, in some Safety protocol measures , so advised to place some fire extinguishers at prominent corners of the college and also we found some lag of Add-on Courses.

For Ece 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.

4. **Academic Flexibility:** It is observed that, Academic flexibility of R16 for final year, R19 for 3<sup>rd</sup> year, R20 for 1<sup>st</sup> and 2<sup>nd</sup> years is found to be satisfactory, but for some more persistence should provide in selecting elective subjects in enhancing the advanced learning for R19.



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**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 : 33 Requirement: 0**
- **ECE department: Faculty Availability : 26 Requirement: 0**
- **MECH department: Faculty Availability : 31 Requirement: 0**
- **EEE department: Faculty Availability : 17 Requirement: 0**
- **CIVIL department: Faculty Availability : 9 Requirement: 0**
- **BS&H department: Faculty Availability : 24 Requirement: 8**
- **MBA department: Faculty Availability : 13 Requirement: 0**

**Action taken:** It is found that BS& H is lag of faculty of at least 4 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:** We find that the faculty from EEE, ECE and Mechanical departments are found to be lag in research activities, so action report was taken to engage the faculty in research and make them to publish papers, books by enrolling them as the Professional members of various research bodies.

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.

- I. **CSE:** 4 Faculties are initiated as the resource persons for 3 FDP's and 1 Training program.
- II. **ECE:** 3 Faculties are initiated as the resource persons for 2 FDP's and 1 training program.
- III. **MECH:** 2 Faculties are initiated as the resource persons for 2 FDP's.





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- IV. **EEE:** Nil
  - V. **CIVIL:** only 1 faculty is initiated as the resource persons for 1 FDP
  - VI. **BS&H:** 3 Faculties are initiated as the resource persons for 2 FDP's and 1 training program.
  - VII. **MBA:** 2 Faculties are initiated as the resource persons for 2 FDP's

**Action taken:** The IQAC committee members are given an advice to EEE 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 learners improvements:** Slow learners are identified in some departments such as EEE, CSE, Mechanical, so by verifying the documents supported, we advised to conduct extra-remedial and tutorial classes for them.
3. **Student counseling/mentoring mechanism:** It is satisfactory by taking 20 students who are allotted for each faculty member for better improvement of their academic results.
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.
5. **Teaching-learning process:** By the earlier suggestions taken by IQAC committee, teaching- learning process is found to be efficient, by conducting in the form of lectures, case studies, class room participation, assignments, debates among teams on subjects, by using audio visual teaching. In those, it is found that, the best practices of providing course material to the students of all the departments with satisfactory note.
6. **Monitoring of teaching process:** Monitoring process is found to be done by regular visit of the principal through CC surveillance, syllabus coverage is identified by maintaining track sheets, and evaluation of answer papers as per the allotment of marks and the quality of mid-exam question papers which is regularly checked by exam cell coordinator and the



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Principal. So, we reported as satisfactory.

7. **Result analysis:** The percentage of II/II results is found to be low in the departments of ECE, EEE and Mechanical. 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 %
EEE	50	13	37	26.00
MECH-A	53	10	43	18.87
MECH-B	55	22	33	40.00
ECE-A	48	28	20	58.33
ECE-B	50	19	31	38.00
CSE-A	57	26	31	45.61
CSE-B	57	23	34	40.35
CSE-C	71	31	40	43.66
CSM	60	29	31	48.33
CSD	52	37	15	71.15

8. **MOU's with industries for internship:** As we found that there are only few MOU's in departments such as EEE, CIVIL, MECH, 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 follow up the teaching process in more practical based. So, in audit report, we noted that there is lag of taking feedback in MBA and CIVIL departments, so we suggested maintaining the student's feedback follow up action.

## IV. Research consultancy and Extension:

- Promotion of Research:** It is found, Institution supported the faculties of CSE, ECE departments to pursue research degrees by providing them, the required leaves to complete and submit their final draft of research thesis.
- 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.
- 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.



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4. **MOU's with industries/R&D/Premier Institutes:** In this academic year, 13 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 aspires

## V. Infrastructure and Learning resources

1. **Infrastructure facilities to improve teaching learning process:** We are audited the report, that the Institute has a well-planned library and internet facility to cater to the needs of research with a facility of Online journal/E- content journals by available library timings. So it is 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 access 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



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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, MBA 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 an employment oriented skill based courses. So, in coming academic year, the number of Add-on-courses of all the departments, especially MBA, CIVIL 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. 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 and ECE 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.



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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 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 support and leaves are suggested to provide for the faculty in full-pledged way, for upgrading their qualification and research activities as well as 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.**  
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Principal  
**PRINCIPAL**  
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## CIRCULAR

### Internal Quality Assurance Cell (IQAC)

#### ACADEMIC AUDIT (2020-2021)

Date:10-12-2020

From

The coordinator of IQAC

Avanathi Institute of Engineering and Technology

Cherukupally,

Near Tagarapuvalasa Bridge

Vizianagaram-531162

To

The Principal

Avanathi 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 2020-2021 as per the team given below and as per the schedule from 20<sup>th</sup> to 31<sup>th</sup> Dec2020. 2021. 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.M.Sumathi	22-12-2020



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2	Electronics And Communication Engineering	SEM –I Dr.R.Swapna Mr.R.Venkatesh	24-12-2020
3	Electrical And Electronics Engineering	SEM –I Dr.A.Bala krishna Mrs.M.Sumathi	28-12-2020
4	Mechanical Engineering	SEM –I Dr..P.Krishna rao Mr.R.Venkatesh	23-12-2020
5	Civil Engineering	SEM –1 Dr. A.Balakrishna Mrs.K.Praveena	21-12-2020
6	Basic Science And Humanities	SEM-I Dr. V. Sai Prasanth Mr.R. Venkatesh	26-12-2020
7	Master Of Business Administration	SEM–I Dr.H.Mallassam Dora Mr.G.Chinnarao	30-12-2020



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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**

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**Bhogapuram (M), Vizianagaram (D)-531162**





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## ACADEMIC AUDIT REPORT (2020-2021) Dept. of COMPUTER SCIENCE AND ENGINEERING

ACADEMIC YEAR: 2020-2021

I SEMESTER

DATE OF AUDIT: 22-12-2020

We, Dr. B. Avinash Ben and Mrs. M. Sumathi 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 its Minutes of meeting, Curriculum changes and its evidences are enclosed (Annexure 1.3)
4	Percentage of Lab component	23.07% (4.5/19.5) -R20 13.63% (3/22) -R19 23.25% (10/43) - R16 <b>M.Tech</b> 44.4% (8/18) -R19 Two additional experiments are conducted in all labs (Annexure 1.4)



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5	Evidence of academic flexibility	2 Core electives 27.27%(6/22)- R16 <b>M.Tech</b> 2 core electives 86.3% (19/22)II/I-R19 76.9% (15/19.5)I/I -R20 (Annexure 1.5)
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## 2. Faculty information and their contribution

S.NO.	CRITERION	OBSERVATIONS
1	Student teacher ratio	19:1 30 faculty members are assigned to teach for 367 students
2	Faculty cadre ratio Prof : Assoc : Asst	Professors: 4 Associate Professor: 2 Assistant Professors: 24 Annexure:2.1
3	Faculty qualifications	Doctorates: 4 Ph.D. Pursuing :2 M. Tech: 24
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	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: -- FDPs	FDPs: 1 Annexure 2.5



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9	List of conferences/seminars/workshops/FDP's/any exclusive programmes attended for enrichment of teaching-learning process	Training Program:9 Conferences: Nil Seminars: Nil Workshops: 6 FDP's: 11
---	--	--

### 3. 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	<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</li> </ul>



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	<p>--Innovative teaching methods presented</p> <p>--Verification of course files</p> <p>--Minutes of class committee meetings and action taken</p>	<p>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</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>3 Guest lectures are conducted for the students to get aware of some core related subjects, which are presented by eminent resource Persons.</li> </ul> <p>Annexure 3.2</p>
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 and its evidence is enclosed</p> <p>Annexure 3.3</p>
10	<p>Scope for self-learning</p> <p>----Certificate courses</p> <p>----Online courses</p>	<p>Faculty members were very instrumental in designing and developing NI L 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.</li> </ul> <p>Result analysis annexure 3.4</p>
12	<p>Placements (%):</p> <p>Industries/organizations:</p>	<p>NA</p>
13	<p>Higher studies(%):</p> <p>--Institutions:</p>	<p>2 students are successfully progressed for higher studies.</p> <ol style="list-style-type: none"> <li>1) Mylapilli Bala Krishna (M.S in Florida Atlantic University)</li> <li>2) Janaki Ram Sai Sampath surisetty (M.S. in Northern Arizona University)</li> </ol>



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## 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:	International: 1
3	Percentage of Faculty contributing in Research Publications:	3.3 Percentage of Faculty contributing in Research Publications
4	Ph.D s registered: Submitted: Awarded: Ph.D. guiding/guided	Registered: 2 Submitted: --Nil Awarded: 4 Guiding/guided: Nil
5	Funded R&D projects and consultancy works:	Funded R&d 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:	Recognized as JNTUK Research centre of excellence for the academic year 2020-2021
9	Skill development centre established	YES, Skill development centre established in collaboration with APSSDC



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## 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:12 Laboratories:8 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 3 members of administrative support is provided. P.Santhosh--- Technical Ch.Shiva --- Technical K.Thapalayya-- Technical B.Bhaskar ----- Administrative support
4	Department budget: Sanctioned amount: Amount spent: New equipment added: of equipment and consumable registers in labs	
5	Details of computing facilities and software	Total number of computers:560 List of software procured, is enclosed in Annexure 5.1
6	Dept, Newsletters and Magazine	Monthly:3 Bi-monthly:2 Quarterly: 4 Yearly:11 Half-yearly: 8
7	Department level library resources	NO. of Titles:36 NO. of Volumes:156 NO. of Journals:14 No. Of International Journals:6 NO. of E- Journals:64



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## 6. Student information support and progression

S.NO	Criterion	Observations
1	Add-on courses	Add-on courses conducted: Nil
2	Student Publications: Dept. student E-Club:	Student Publications: Nil No. of E-club activities for students: <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, 200classes 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 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.



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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 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

- a. Good faculty retention
- b. More number of student placements
- c. Research and Development cell
- d. Strong department level support for faculty research activities
- e. Supportive working environment among department members

### Weakness

- i. Lack of NRI student attraction
- ii. Poor English speaking capacity of the students.
- iii. Poor socio-economic status of the students.
- iv. There is a need to modernize classrooms with ICT facilities





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## 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

**Sign. of Academic Auditors**

**Dr. B. Avinash Ben**

**Assoc. Prof & HOD of ME**

**COORDINATOR, IQAC**

AVANTHI INSTITUTE OF ENGG. & TECH.  
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**Mrs. M. Sumathi**

**Asst. Prof of Civil Engg.**



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## ACADEMIC AUDIT REPORT (2020-2021)

### DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

ACADEMIC YEAR: 2020-2021

I SEM

DATE OF AUDIT: 28-12-2020

We, Dr. A. Bala Krishna and Mrs. M. Sumathi 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.CO's, PO's 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	23.07%(4.5/19.5) 1-1 in R20 14.28%(3/21) 2-1 in R19 20%(4/20) 3-1 in R19 45.45%(10/22) 4-1 in R16 <b>M.TECH</b> 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	76.92%(15/19.5) 1-1 in R20 85.71%(18/21) 2-1 in R19 75.75%(15/20) 3-1 in R19 54.5%(12/22) 4-1 in R16



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		<b>M.TECH</b> 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 1.5
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## 2. Faculty information and their contribution

S.NO.	CRITERION	OBSERVATIONS
1	Student teacher ratio	19:1 16 Faculties are assigned for students 170
2	Faculty cadre ratio Prof : Asso : Asst	Professors: 1 Associate Professor: 2 Assistant Professors: 13 Annexure:2.1
3	Faculty qualifications	Doctorates: 1 Ph.D. Pursuing :1 M. Tech: 14
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: • Books: • Book chapters:	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 • Training Programs • Workshops/seminars: • FDP's	Nil
9	List of conferences/seminars/workshops/FDP's/any exclusive programmes attended for enrichment of teaching-learning process	Conferences: Nil seminars :12 workshops: Nil FDP's :23 annexure 2.4

## 3. Teaching learning process and evaluation

S.NO.	CRITERION	OBSERVATIONS
1	Student performances	Lists of students Detention and



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	Attendance Exams	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	<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 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	<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>	Add-on Courses: 4 Programs are conducted for students: Annexure 3.2
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> <ul style="list-style-type: none"> <li>• Certificate courses</li> </ul>	Faculty members were very



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	<ul style="list-style-type: none"> <li>Online courses</li> </ul>	instrumental in designing and developing 4 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 3.3</li> </ul>
12	Placements (%): Industries/organizations:	NA
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 3.4

## 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 : Nil
2	Publications in conferences: National: International:	Nil
3	Percentage of Faculty contributing in Research Publications:	12% of Faculty are 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:	-----



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9	Skill development centre established	YES, Skill development centre established in collaboration with APSSDC
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## 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	3 members of Technical and 2 members of Lab Assistant support is provided. P.Santhosh---Technical Ch.Shiiva---- Technical K.Thapulayya--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 are conducted:4  1. PCB Designing 2. Smart Grid 3. PLC & SCADA 4. PCB Designing



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2	Student Publications: Dept. student E-Club:	Student Publications: Nil 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	I(EEE)-32, II(EEE)-49, III(EEE)-58 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 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



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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 modernise 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

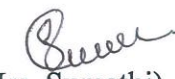
To overcome the challenges and improve the quality of education, evaluation can be done on the following factors such as maintenance of infrastructure, pedagogy skills, quality of teacher's education and extra-curricular as well as co-curricular activities.

  
HOD-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. Bala Krishna)  
Professor, Dept of CSE

  
(Mrs. Sumathi)  
Asst, Professor, Dept of Civil





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## ACADEMIC AUDIT REPORT (2020-2021)

### DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Academic Year: 2020-2021

I SEM

DATE OF AUDIT: 24-12-2020

We, Dr. R. Swapna and Mr. R. Venkatesh 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	56.4%(11/19.5) -R20 28.57%(12/42) -R19 M.Tech 22.2%(4/18)-R19  -Two additional experiments are conducted in all labs (Annexure 1.4)
5	Evidence of academic flexibility	1 Core elective 12.5%(3/24)-R16 1 Professional Elective+1 Open Elective



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		28.57%(6/21)-R19 M.Tech 2 core electives 33.3% (6/18)-R19 (Annexure 1.5)
--	--	--

## 2. Faculty information and their contribution

S.NO.	CRITERION	OBSERVATIONS
1	Student teacher ratio	19;1 26 faculty members are assigned to teach for 120 students
2	Faculty cadre ratio Prof : Assoc : Asst	Professors: 2 Associate Professor: 5 Assistant Professors: 19 Annexure:2.1
3	Faculty qualifications	Doctorates: 2 Ph.D. Pursuing :3 M.Tech: 21
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: --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 <ul style="list-style-type: none"><li>• Training Programs</li><li>• Workshops/seminars:</li><li>• FDP's:</li></ul>	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: Nil FDP's: 28



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## 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 <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> 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>



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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 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: 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.</li> </ul> <p>Result analysis Annexure 3.3</p>
12	<p>Placements (%):</p> <p>Industries/organizations:</p>	NA
13	<p>Higher studies(%):</p> <p>--Institutions:</p>	<p>1 student is successfully progressed for higher studies.</p> <p>Revathi Durgasi is joined for M.Tech in Andhra university</p>
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 both in co-curricular and extra-curricular activities Annexure 3.4

## 4. Research consultancy and Extension

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: NIL</p> <p>No. SCOPUS/SCI Indexed journals : NIL</p>
2	<p>Publications in conferences:</p> <p>National:</p> <p>International:</p>	Nil



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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	Registered:3 Submitted: --2 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 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
2	Internet facility for faculty and students:	Wi-Fi net is enabled
3	Technical and administrative staff support	5membersofTechnicalsupportisprovided. P.Santhosh-Technical Ch.Shiva-Technical T.Jyothi-Technical G.Guruvulu-Technical K.Thapulayya-Technical
4	Department budget: Sanctioned amount: Amount spent: New equipment added:	



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	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.IC Designing using Microwind 2.Mentor Graphics 3.Computer networking Security
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	I(ECE)-90,II(ECE)-111,III(ECE)-55 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	Yes



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	objectives at prominent places	
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 modernise 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.



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## 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. R. Venkatesh)

Asst Professor, Dept of Civil





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## ACADEMIC AUDIT REPORT (2020-2021)

### DEPARTMENT OF MECHANICAL ENGINEERING

ACADEMIC YEAR : 2020-2021 I SEMESTER

DATE OF AUDIT : 23-12-2020

We, Dr. P. Krishna Rao and Mrs. K. Venkatesh 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	26%(16/61.5) R20 18.2%(4/22) R16 28.6%(6/21) R19 M.TECH 22.22%(4/18) R19 -Two additional experiments are conducted in all labs (Annexure 1.4)



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5	Evidence of academic flexibility	27.3%(6/22) R16 MTECH 10.E+2 P.E 24%(12/50) R19 (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 452 students
2	Faculty cadre ratio Prof : Assoc : Asst	Professors: 2 Associate Professor: 5 Assistant Professors: 24 Annexure:2.1
3	Faculty qualifications	Doctorates: 2 Ph.D. Pursuing :14 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: --Books: --Book chapters:	Books-2
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
8	International/national level events organized -- Training Programs --workshops/seminars: --FDP's :	FDP's: 3
9	List of conferences/seminars/workshops/FDP's/any exclusive programmes attended for enrichment of teaching-learning process	Conferences: 14 Seminars: Nil Workshops: Nil FDP's: 26 Training Program: Nil



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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.
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 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</li> </ul>



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		planning and its facilities provided.
7	Training programmes conducted for students ---Guest Lectures ---Add-on courses ---Seminars/workshops ---Compliance of department academic calendar	<ul style="list-style-type: none"> <li>• 5 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 student 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	Scope for self learning ---certificate courses ---online courses	<ul style="list-style-type: none"> <li>• Faculty members were very instrumental in designing and developing 1 Add- on and Certificate course programs.</li> <li>• 1. Hands on Experience in Maintenance and Trouble shooting of R&amp;AC.</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	Placements ---(%): Industries/organizations:	NA
13	Higher studies(%): --Institutions:	<p>2 Students successfully progressed for higher studies .</p> <ol style="list-style-type: none"> <li>1. Kanchu boyina. Pavan Mtech-Gitam University</li> <li>2. Dwarapureddy. Hari krishna Mtech-Visakha institute of Engineering and Technology</li> </ol>
14	Student development activities: ---Co-curricular ---Extra-curricular activities	Students are participated both in co-curricular and extra-curricular activities Annexure3.4



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## 4. Research consultancy and Extension

1	Faculty Publications in journals: Peer review journals: Thomson Reuters Impact factor journals	Total No. Of Peer review journals: No. SCOPUS/SCI Indexed journals :
2	Publications in conferences: National: International:	National conferences :9
3	Percentage of Faculty contributing in Research Publications:	(12.90% ) 7 faculties contributing in Research Publications
4	Ph.D s registered: Submitted: Awarded: Ph.D. guiding/guided	Registered:--11 Submitted: --Nil Awarded: 2 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

## 5. Infrastructure and Learning resources

S.No	Criterion	Observations
1	Infrastructure facilities to improve teaching learning process Class rooms: Laboratories: E-class rooms:	Classrooms:7 Laboratories:12 E-classrooms:1 Seminar halls: 1 Faculty rooms:2



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	Seminars: Faculty rooms:	
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	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. Hands on Experience in Maintenance and Trouble shooting of R&AC



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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:2 Internships: MECH(IIIYEAR): 114 MECH(IVYEAR):155are 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.



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---

## 8. Strengths, weakness and areas of Improvement

### Strengths:

- 1) More number of student placements.
- 2) Good computational and experimental facilities.
- 3) Good faculty retention.
- 4) Effective technical and Innovative skills.
- 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) Interdisciplinary growth of core departments
- 2) Opportunity to maximize the potentiality of Centres of Excellence.
- 3) By establishing stronger relationships with R&D organization.
- 4) Increase of research funding.





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## Suggestions for Improvement

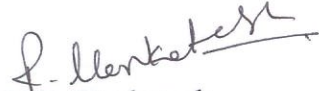
To overcome the challenges and improve the quality of education, evaluation can be done on the following factors such as maintenance of infrastructure, pedagogy skills, quality of teacher's education and extra-curricular as well as co-curricular activities.

  
HOD-MECH

Sign. Of Academic Auditors

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

  
Dr. P. Krishna Rao  
Prof. of ECE

  
Mr. R. Venkatesh  
Asst.Prof. &  
HOD of CIVIL ENGG.



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## Internal Quality Assurance Cell

### ACADEMIC AUDIT REPORT (2020-2021)

#### CIVIL ENGINEERING

AY: 2020-2021

I SEM

DATE OF AUDIT: 21-12-2020

We, Dr. A. Bala Krishna and Mrs. K. Praveena 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 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	14.28% (3/21) II/I -R19 45.45% (9/20) III/I 45.45% (10/22) IV/IR16 Two additional experiments are conducted in all labs (Annexure 1.4)
5	Evidence of academic flexibility	54.5% (12/22) IV/I - R16 85.7% (18/21)II/I-R19 55% (11/20)III/I

#### 2. Faculty information and their contribution



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S.NO.	CRITERION	OBSERVATIONS
1	Student teacher ratio	13:1 9 faculty members are assigned to teach for students
2	Faculty cadre ratio Prof:Assoc: Asst	Professors: Nil Associate Professor: Nil Assistant Professors: 9 Annexure: 2.1
3	Faculty qualifications	Doctorates: Nil Ph.D. Pursuing: Nil M.Tech: 9
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: --Books: --Book chapters:	Nil
6	Faculty in Professional bodies Faculty contributions	Nil
7	Faculty as resource persons in workshops/training activities	Training and Programs: 2 Annexure 2.4
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 2.5
9	List of conferences/seminars/workshops/FDP's/any exclusive programmes attended for enrichment of teaching-learning process	To enrich teaching and learning process, faculty of Civil Department attended workshops/FDP's /Training Programs and its evidences are enclosed in Annexure 2.3



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## 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 • 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 registers as well as</li> </ul>



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		<p>the course files by HOD.</p> <p>Minutes of meetings are regularly conducted to discuss the matters that are related to Time Tables, academic planning and its facilities provided.</p>
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: 6 Programs are conducted for students: Annexure 3.2</li> </ul>
8	MOU's with industries for internship	<p>Internship with other industries is 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 and its evidence is enclosed Annexure 3.4</p>
10	<p>Scope for self learning</p> <ul style="list-style-type: none"> <li>• Certificate courses</li> </ul> <p>Online courses</p>	<p>Faculty members were v e r y instrumental in designing and developing 6 Add-on and Certificate course programs.</p>
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> </ul> <p>Based on the results of main exams, backlog classes are conducted.</p>
12	Placements (%): Industries/organizations:	<ul style="list-style-type: none"> <li>• (52%) students ,17 candidates are selected in different 42 companies Annexure 3.5</li> </ul>
13	<p>Higher studies (%):</p> <ul style="list-style-type: none"> <li>• Institutions:</li> </ul>	-----



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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
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## 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:
2	Publications in conferences: National: International:	Nil
3	Percentage of Faculty contributing in Research Publications:	
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
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



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## 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:5 E-classrooms:3 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. 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	60 systems are provided to the students
6	Dept, Newsletters and Magazine	Monthly:3 Bi-monthly:2 Quarterly: 4 Yearly:11 Half-yearly: 8
7	Department level library resources	NO. of Titles:24 NO. of Volumes:118 NO. of Journals:14 No. Of International Journals:4NO. of E-Journals:18



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## 6. Student information support and progression

S.NO	CRITERION	OBSERVATIONS
1	Add-on courses	Add-on courses are conducted
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	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.





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## 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 modernise 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.

*P. Venkatesh*

**HOD-CIVIL**

**Head of the Department**  
Civil Engineering  
**AVANTHI INSTITUTE OF ENGINEERING & TECH.**  
Cherukupally (V), Chinthalasa (SAO)  
Bhogapuram (M), Vizianagaram (Dist) - 531162

**Sign. of Academic Auditors**

*A. Bala Krishna*  
Dr. A. Bala Krishna  
Associate Professor, Dept. of CSE

*K. Praveena*  
Mrs.K.Praveena

Asst .Professor, Dept.of EEE



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## ACADEMIC AUDIT REPORT (2020-2021)

### DEPARTMENT OF BASIC SCIENCES AND HUMANITIES

A.Y : 2020-2021

SEM-I

Date of Audit: 26-12-2020

We, Dr. A. Sai Prasanth and Mr. R. Venkatesh 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: 4 Assistant Professors: 22 Annexure:2.1



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3	Faculty qualifications	Doctorates : 8 Ph.D Pursuing :2 MSc: 16
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 Annexure2.3
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 2.4
9	List of conferences/seminars/workshops/FDP's/any exclusive programmes attended for enrichment of teaching-learning process	Conferences: 1 Seminars: Nil Workshops: Nil FDP's: Nil  Annexure 2.5

### 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



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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>	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:3 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



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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 I Mid exam to II mid exam</li> <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 :1
2	Publications in conferences: National: International:	Nil
3	Percentage of Faculty contributing in Research Publications:	
4	Ph.D s registered: Submitted: Awarded: Ph.D. guiding/guided	Registered:2 Submitted: --Nil Awarded: 8 Guiding/guided: Nil
5	Funded R&D projects and consultancy works:	Nil
6	Incentives for faculty R&D	Incentives for faculty Research publications as per HR policy.
7	MOU's with industries/R&D/Premier Institutes	N/A
8	Research center of excellence established:	----



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9	Skill development center established	YES, Skill development center established in collaboration with APSSDC
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## 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 3 members of administrative support is provided. P.Santhosh--- Technical N:Chitti Babu-- Technical B.Appala Raju --- Technical Ch. Rajani---- administrative Ch.Shiva---- administrative B.Ewarrao---- administrative
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



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7	Department level library resources	Yes
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## 6. Student information support and progression

S.NO	Criterion	Observations
1	Add-on courses	Add-on courses :3 1. Business English basic level 2. Reading skills basic level 3. Astro Physics
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.



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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) 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.





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## 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  
Bhogapuram (M), Vizianagaram (D)-531162**

**Sign. of Academic Auditors**

**Dr. A. Sai Prasanth**

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

**Mr. R. Venkatesh**

**Asst. Professor, Dept. of Civil**



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## ACADEMIC AUDIT REPORT (2020-2021)

### DEPARTMENT OF MANAGEMENT STUDIES

ACADEMIC YEAR: 2020-2021

I-III SEMESTERS

DATE OF AUDIT:30-12-2020

We, Dr. H. Mallassam Dora and Mr. G. Chinna Rao 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)

#### 2. Faculty information and their contribution



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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: 1 Assistant Professors:12 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 bodiesFaculty contributions	Nil
7	Faculty as resource persons inworkshops/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-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:8 Annexure2.3

### 3. Teaching learning process and evaluation

S.NO.	CRITERION	OBSERVATIONS
1	Student	List of students Detention and



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	performances Attendance Exams	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 slowlearners
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 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 asper 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 asthe 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</li> </ul>



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		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>• 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 very instrumental in designing and developing 2 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> <p>Annexure 3.4</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 : 4</p>



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2	Publications in conferences: National: International:	National : 2 International: 2
3	Percentage of Faculty contributing in Research Publications:	30% 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	2 members of Technical and 1 members of administrative support is provided.



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	support	P.Santhosh---Technical Ch.Shiva ---- Technical 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	Nil
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 2020-2021



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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
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### Weakness

- 1) Lack of NRI student attraction
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- 3) There is a need to modernize classrooms with ICT facilities





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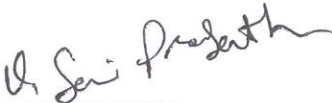
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## Opportunities:

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**HOD-MBA**

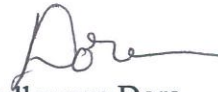
**Head of the Department**

**Master of Business Administration**

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Bhogapuram (M), Vizianagaram (D)-531162**

**Sign. of Academic Auditors**



**Dr.H.Mallesam Dora**

**Associate Professor, Dept.:of EEE**



**Mr. G. Chinna Rao**

**Associate Professor, Dept. of BS&H**