



AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY

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

NAAC “B++” Accredited Institute

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

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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: 2021-2022

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Over All Action Taken Report on Department wise Academic and Administrative Audit for Semester-II in the academic year 2021-2022

As per the IQAC decision, Dr. Gandhi Satyanarayana, issued a circular on 8-6-2022 and allocated responsibilities department wise to the below mentioned audit members. The auditors carried out the audit works successfully with the support of head's of departments and submitted the report to the IQAC Co-ordinator. Based on the reports issued by the auditors, the IQAC Co-ordinator Developed an over all action taken report and submitted it to the principal

S.no	NAME OF THE DEPARTMENT	AUDIT MEMBERS
1	Computer Science Engineering	SEM -II Dr.G.Chinna Rao Mr.R.Venkatesh
2	Electronics Communication Engineering	SEM -II Dr.H.Mallessam Dora Mr.R.Venkatesh
3	Electrical and Electronics Engineering	SEM -II Dr.V.Sai Prasanth Mr.V.Siva Bhasakar Rao
4	Mechanical Engineering	SEM -II Dr.R.Swapna Mrs.K.Syamala
5	Civil Engineering	SEM -II Dr..H.Mallessam Dora Mr.J.R.G.Patnaik
6	Basic Sciences and Humanities	SEM-II Dr.B.Avinash Ben Mrs.K.Syamala
7	Master of Business Administration	SEM -II Dr.A.Bala Krishna Mrs.M.Sumathi

I.CO POs curriculum

1. COs and PO attainment:

As per the procedure established, regarding the CO's and PO's attainment, by observing R16, R19, R20 regulations.

As per discussions by Audit committee, it is suggested to CSE department, to strengthen PO10, regularly for student association activities which are to be conducted.

In the same way, Suggestions given for EEE department to strengthen PO1, PO2



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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 3rd year, R20 for 1st and 2nd 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 IV/II results is found to be low in the departments of CSE 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 %
CIV	39	37	2	94.87
EEE	54	45	9	83.33
MECH-A	55	49	6	89.09
MECH-B	55	46	9	83.64
MECH-C	52	36	16	69.23
ECE	48	39	9	81.25
CSE-A	49	39	10	79.59
CSE-B	49	36	13	73.47

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 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
- 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 is to be increased. Further action is taken to ensure practical training, in its quality of skill-oriented manner and to aim at the development of skills for entrepreneurship.
- 2. Placement training:** As the IQAC committee members, we are giving an advice, to empower the students with values and professional skills to get placed in the appropriate field. Special communication development Training programs are conducted for the students of EEE, ECE and Mechanical branches by leading training Institutes. The needed action is taken for further Individual counseling to make them understand the certainty of life and train them to work towards the goal.

CSE: 91% ECE: 82 % EEE: 56% CIVIL: 65% MECH:65% MBA:78%

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. 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



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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.
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

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Principal
PRINCIPAL

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CIRCULAR Internal Quality Assurance Cell (IQAC)

ACADEMIC AUDIT (2021-2022)

Date: 08-06-2022

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 2021-2022 as per the team given below and as per the schedule from 20th to 30th June2022. 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. G. Chinna Rao Mr. R. Venkatesh	21-06-2022
2	Electronics and Communication Engineering	SEM-II Dr. H. Mallesam Dora Mr. R. Venkatesh	27-06-2022



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3	Electrical and Electronics Engineering	SEM-II Dr.V.Sai Prasanth Mr.V.SivaBhasakar Rao	25-06-2022
4	Mechanical Engineering	SEM -II Dr.R.Swapna Mrs.K.Syamala	23-06-2022
5	Civil Engineering	SEM -II Dr..H.MallessamDora Mr.J.R.G.Patnaik	28-06-2022
6	Basic Sciences and Humanities	SEM-II Dr.B.Avinash Ben Mrs.K.Syamala	20-06-2022
7	Master Of Business Administration	SEM-II Dr.A.Bala Krishna Mrs.M.Sumathi	30-06-2022

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 (2021-2022)

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

ACADEMIC YEAR: 2021-2022

II SEMESTER

Date of Audit: 21-06-2022

We, **Dr. G. Chinna Rao** and **Mr. R. Venkatesh** were entrusted to carry out the audit work of Department of Computer Science and Engineering by the IQAC. The audit work was carried out with the consent and the presence of the Head of the Department and Department coordinators. The overall internal audit report was prepared & drafted based on the Academic Information including strengths, weaknesses, and opportunities. The report was duly submitted along with suggestions to the IQAC.

1. COs, POs curriculum

S.NO.	CRITERION	OBSERVATIONS
1	COs and POs attainment	CO's and PO's attainment calculated as per the procedure established by PAC and (Annexure 1.1) is enclosed
2	Stakeholders feedback related to curriculum design	Graduates exit survey; Alumni survey and employer survey, teachers survey are conducted and presented as consolidated as per format. (Annexure 1.2)
3	Action taken on Minutes of Meeting	Incorporated changes as per the suggestions by DAC, PAC and its Minutes of meeting, Curriculum changes and its evidences are enclosed (Annexure 1.3)
4	Percentage of Lab component	23.03% (4.5//19.5) I-II-R20 20.93% (4.5/21.5) II-II-R20 14..28% (3/21) III-I--R19 30% (9/41)- R20 -AI&ML 30% (9/41)- R20 – DS M.TECH 22.22% (4/18)-- R19 -Two additional experiments are conducted in all labs. (Annexure 1.4)
5	Evidence of academic flexibility	14.28% (3/21)- R19 (1P.E+1O.E) IP.E 12.5% (3/24)— R16 M.Tech 2 core electives 33.3% (6/18)- R19 (Annexure 1.5)



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2. Faculty information and their contribution

S.NO.	CRITERION	OBSERVATIONS
1	Student teacher ratio	19:1 40 faculty members are assigned to teach for 599 students
2	Faculty cadre ratio Prof : Assoc : Asst	Professors:4 Associate Professor:5 Assistant Professors: 31 Annexure:2.1
3	Faculty qualifications	Doctorates:4 Ph.D.Pursuing:3 M.Tech:33
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">Books:Book chapters:	Books:2
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:1 Annexure 2.4
8	International/national level events organized <ul style="list-style-type: none">Training ProgramsWorkshops/seminars:FDP's	FDPs:1 Annexure 2.5
9	List of conferences / seminars / workshops / FDP's / any exclusive programmes attended for enrichment of teaching-learning process	Conferences: Nil Workshops: Nil Seminars: 12 FDP's: 49



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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 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: 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"> • 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"> • Regular visit by the principal • CC surveillance <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"> • Track sheets are maintained to review syllabus coverage. • Evaluation of answer papers as per the allotment of marks • Yes, the quality of mid-exam question papers is regularly checked by exam cell co-ordinator and the principal. • Interactive way of teaching • Regular verification of Attendance registers as well as the course files by HOD. • Minutes of meetings are regularly conducted to discuss the matters that are related to Time Tables, academic planning and its facilities provided.



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7	<p>Training programmes conducted for students</p> <ul style="list-style-type: none"> • Guest Lectures • Add-on courses • Seminars/workshops • Compliance of department academic calendar 	<ul style="list-style-type: none"> • 4 Guest lectures, Seminars are conducted for the students to get aware of some core related subjects, which are presented by eminent resource Persons. • Add-on Courses: 2 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"> • Certificate courses • Online courses 	<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	<ul style="list-style-type: none"> • Based on the results of mid exams, remedial classes are conducted. • Based on the results of main exams, backlog classes are conducted. <p>Result analysis Annexure 3.3</p>
12	Placements (%) Industries/org anizations:	(76.2%) out of 97 students, 74 candidates are selected in different companies Annexure 3.4
13	Higher studies(%) --Institutions:	<p>4 students are progressed for higher studies.</p> <ul style="list-style-type: none"> ○ Ravvada Gayatri in MS ○ Tiyyali Meghana in MS ○ Salividi Ramya in MS ○ Maneesh Ujji in MS
14	<p>Student development activities: ---Co-curricular ---Extra-curricular activities</p>	<p>Students are participated both in co-curricular and extra-curricular activities Annexure 3.5</p>



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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: 4
3	Percentage of Faculty contributing in Research Publications:	5 Percentage of Faculty contributing in Research Publications
4	Ph.Ds registered : Submitted: Awarded: Ph.D. guiding/guided	Registered:3 Submitted:--Nil Awarded: Nil Guiding/guided: Nil
5	Funded R&D projects and consultancy works:	Funded R&D projects and consultancy works Evidences are enclosed Annexure 4.1
6	Incentives for faculty R&D	Incentives for faculty Research publications as per HR policy
7	MOU's with industries/R&D/Premier Institutes	MOU's with industries and R&D annexure:4.2
8	Research centres of excellence established:	--
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:16 Laboratories:5 E-classrooms:1 Seminarhalls:2 Facultyrooms: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 member of administrative support is provided. <ul style="list-style-type: none">o P.Santhosh--Technicalo Ch. Shiva --Technicalo K. Thalupulayya--Technicalo T. Srinu – Administrative support
4	Department budget: Sanctioned amount: Amount spent: New equipment added: Maintenance of equipment and consumable registers in labs	
5	Details of computing facilities and software	Total number of computers: 330 List of softwares: Windows7, Windows10, office-2007, oracle-10g, Rational Rose, TURBOC++, JDK, TURBOC, ORACLE10G, Python
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 conducted:2 <ul style="list-style-type: none">Advanced Java ProgrammingAndroid Applications
2	Student Publications: Dept. student E-Club:	Student Publications: Nil No. of E-club activities for students:2 <ul style="list-style-type: none">Iot clubElectoral 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	From CSE II year- 191 students CSE III year -184 students CSD II year-55 students CSM II year-65 students are participated in internships

7. Governance, Leadership and Management

S.NO.	Criterion	Observations
1	Teaching and non-teaching attended for skill development programs	Both teaching and non-teaching staff are attended for skill development programs for an academic year 2020-2021
2	MOUs with premier institutions for knowledge exchange	MOUs And its Annexure 7.1
3	Display of vision, mission and quality objectives at prominent places	Yes



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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-upgradation:	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) Research and Development cell
- 2) Good faculty retention
- 3) More number of student placements
- 4) Strong department level support for faculty research activities
- 5) Supportive working environment among department members
- 6) Students are more active to participate in extra circular activities

Weakness

- 1) Lack of NRI student attraction
- 2) Students are not good at Mathematics
- 3) Poor English speaking capacity of the students.
- 4) Poor socio-economic status of the students.
- 5) 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.
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Bhogapuram (M), Vizianagaram (D)-531162

Sign. of Academic Auditors

Dr. G. Chinna Rao

Assoc. Prof., Dept. of BS&H

Mr. R. Venkatesh

Assoc. Prof., Dept. of Civil Engg.

COORDINATOR, IQAC

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ACADEMIC AUDIT REPORT (2021-2022)

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

ACADEMIC YEAR: 2021-2022

II SEM

Date of Audit: 25-06-2022

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

1. COs, POs curriculum

S.NO.	CRITERION	OBSERVATIONS
1	COs and POs attainment	CO's and PO's attainment calculated as per the procedure established by PAC and (Annexure 1.1) is enclosed
2	Stakeholders feedback related to curriculum design	Graduates exit survey; Alumni survey and employer survey are conducted and presented as consolidated as per format. (Annexure 1.2)
3	Action taken on Minutes of Meeting	Incorporated changes as per the suggestions by DAC, PAC and 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 30.23%(6.5/21.5) 2-2 in R20 14.28%(3/21) 3-2 in R19 M.TECH 22.22%(4/18) 2-2 in R19 for PS 22.22%(4/18) 2-2 in R19 for PE -Two additional experiments are conducted in all labs (Annexure 1.4)
5	Evidence of academic flexibility	14.28(6/42) 3-2 in R19(1P.E+10.E)



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		12.5%(3/24) 4-2 in R16 M.TECH 33.33%(6/18)-R19 for PS(2P.E) 33.33%(6/18)-R19 for PE(2P.E) Annexure 1.5
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2. Faculty information and their contribution

S.NO.	CRITERION	OBSERVATIONS
1	Student teacher ratio	19:1 18 faculty are allotted to teach for 170 students
2	Faculty cadre ratio Prof : Assoc : Asst	Professors: 1 Associate Professor: 2 Assistant Professors: 15 Annexure:2.1
3	Faculty qualifications	Doctorates: 1 Ph.D.Pursuing :1 M.Tech: 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: <ul style="list-style-type: none">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 <ul style="list-style-type: none">Training Programsworkshops/seminars:FDP's :	Nil
9	List of	Conferences : Nil



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	conferences/seminars/workshops/FDP's/any exclusive programmes attended for enrichment of teaching-learning process	Seminars: Nil Workshops: Nil FDP's: 10 Annexure 2.4
--	--	--

3. Teaching learning process and evaluation

S.NO.	CRITERION	OBSERVATIONS
1	Student performances Attendance Exams	Lists of students Detention and coadunation 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"> • 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"> • Regular verification of Attendance registers • Uploading of course material with lesson plan. • Track sheets are maintained to review syllabus coverage
7	Training programmes conducted for students <ul style="list-style-type: none"> • Guest Lectures • Add-on courses • Seminars/workshops • Compliance of department academic calendar 	<ul style="list-style-type: none"> • Guest lectures, seminars are conducted for the students to get aware of some core related subjects, which are presented by eminent resource Persons.



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		<ul style="list-style-type: none"> Add-on courses: 1 Program is conducted for students: Annexure 3.2
8	MOUs with industries for internship	Internship with other industries is done
9	Students feedback and follow up action	Needed action is taken up by students' feedback
10	Scope for self-learning <ul style="list-style-type: none"> certificate courses online courses 	Faculty members were very instrumental in designing and developing 1 Add-on and Certificate course programs
11	Result analysis and conduct of remedial classes for students with backlogs	<ul style="list-style-type: none"> Remedial classes are conducted to form an improvement from Ist Mid exam to II mid exam Extra classes are conducted for backlog students Annexure 3.3
12	Placements ---(%): Industries/organizations:	(70.8%) out of 48 students, 34 candidates are selected in different 18 companies Annexure 3.5
13	Higher studies (%): --Institutions:	1 student is progressed for higher studies S. Kambala in MS
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:	11% of Faculty contributing in Research Publications:
4	Ph.D s registered: Submitted: Awarded: Ph.D. guiding/guided	Registered: --2 Submitted: --Nil Awarded: 1 Guiding/guided: Nil
5	Funded R&D projects and consultancy works:	Projects are done and its evidences are enclosed Annexure 4.1
6	Incentives for faculty R&D	Incentives for faculty Research publications



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

5. Infrastructure and Learning resources

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

6. Student information support and progression

S.NO	Criterion	Observations
1	Add-on courses	Add-on courses :1 1.Embedded System Design using Aurdino
2	Student Publications:	Student Publications: Nil



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	Dept. student E-Club:	No. of E-club activities for students:2 1. Spark Club 2. Electoral Literacy Club
3	Details for coaching provided for GATE/CRT/any other competitive examinations	External CRT classes are provided, 200 classes for an academic year
4	Industrial visits and Internships	I(EEE)-10, II(EEE)-48, III(EEE)-49 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



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Weakness

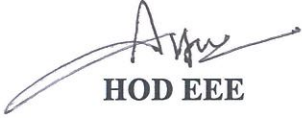
- 1) Lack of NRI student attraction
- 2) Poor socio-economic status of the students.
- 3) There is a need to modernise classrooms with ICT facilities

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.


Suggestions for Improvement

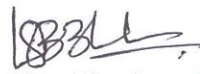
To overcome the challenges and improve the quality of education, evaluation can be done on the following factors such as maintenance of infrastructure, pedagogy skills, quality of teacher's education and extra-curricular as well as co-curricular activities.


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. V. Sai Prasanth)
Professor, Dept. of MBA


(Mr. V. Siva Bhaskara Rao)
Assoc. Professor, Dept. of ECE



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ACADEMIC AUDIT REPORT (2021-2022)

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

ACADEMIC YEAR: 2021-2022

II SEM

Date of Audit: 27-06-2022

We, Dr. H. Mallesam Dora 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	15.85% (6.5/41)-R20 14.28% (3/21)-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 Professional Electives 12.5% (3/24)-R16

Avanthi Institute of Engineering and Technology



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		1 Professional Elective + 1 Open Elective 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 are assigned to teach for 378 students
2	Faculty cadre ratio Prof : Assoc : Asst	Professors: 2 Associate Professor: 4 Assistant Professors: 20 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
8	International/national level events organized <ul style="list-style-type: none">• Training Programs• Workshops/seminars:	FDP's: 2



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	<ul style="list-style-type: none"> FDP's: 	
9	List of conferences/seminars/workshops/FDP's/any exclusive programmes attended for enrichment of teaching-learning process	Conferences: 2 Seminars: Nil Workshops: Nil FDP's: 9 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 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: ---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"> 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 	<ul style="list-style-type: none"> Regular visit by the principal CC surveillance 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"> Track sheets are maintained to review syllabus coverage. Evaluation of answer papers as per the allotment of marks Yes, the quality of mid-exam



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	<ul style="list-style-type: none"> • Checking the quality of mid examinations question papers • Innovative teaching methods presented • Verification of course files • Minutes of class committee meetings and action taken 	<p>question papers is regularly checked by exam cell coordinator and the Principal.</p> <ul style="list-style-type: none"> • Interactive way of teaching • Regular verification of Attendance registers as well as the course files by HOD. • Minutes of meetings are regularly conducted to discuss the matters that are related to Time Tables, academic planning and its facilities provided.
7	<p>Training programmes conducted for students Guest Lectures Add-on courses Seminars/workshops Compliance of department academic calendar</p>	<p>Seminars are conducted for the students to get aware of some core related subjects, which are presented by eminent resource Persons. Add-on Courses: 2 Programs are conducted for students: Annexure 3.2</p>
8	MOU's with industries for internship	Internship with other industries is done
9	Students feedback and follow up action	Needed action is taken up by students feedback
10	<p>Scope for self learning ---certificate courses ---online courses</p>	Faculty members were very instrumental in design in developing 6 Add-on and Certificate course programs.
11	Result analysis and conduct of remedial classes for students with backlogs	<p>Based on the results of mid exams, remedial classes are conducted. Based on the results of main exams, backlog classes are conducted. Annexure 3.3</p>
12	<p>Placements (%): Industries/organizations:</p>	<p>(75%) out of 48 students , 36 candidates are selected in different 27 companies Annexure 3.4</p>



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13	Higher studies (%): --Institutions:	2 students are progressed for higher studies. 1. B. Kumari kusuma lata in M. TECH 2. Yanamala tharun Reddy in MS
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:	7% of faculty are contributing in Research publications
4	Ph.D. s registered: Submitted: Awarded: Ph.D. guiding/guided	Registered:5 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 centers of excellence established:	-----



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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">• Class rooms• Laboratories• E-class rooms• Seminars• Faculty rooms	Classrooms:6 Laboratories:6 E-classrooms: 1 Seminar halls: 1 Faculty rooms: 3
2	Internet facility for faculty and students:	Wi-Fi net is enabled
3	Technical and administrative staff support	5 members of Technical support is provided. P.Santhosh-Technical Ch.Shiva- Technical T.Jyothi-Technical G.Guruvulu-Technical K.Thapalayya-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 List of software procured: 1.MATLAB 2.XILINX 3.KEEL-V4,V5 4.ARDUINO 5.HFSS 6.MULTISIM



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6	Dept, Newsletters and Magazine	Yes
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6. Student information support and progression

S.NO	Criterion	Observations
1	Add-on courses	Add-on courses :1 1.Graphic Design
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	Industrial visits and Internships are 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	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) More number of student placements
- 3) Research and Development cell
- 4) Strong department level support for faculty research activities
- 5) Supportive working environment among department members

Weakness

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

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.



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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.ofAcademicAuditors

Dr. H. Mallesham Dora
Associate Professor, Dept. of EEE

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



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ACADEMIC AUDIT REPORT (2021-2022)

DEPARTMENT OF MECHANICAL ENGINEERING

ACADEMIC YEAR : 2021-2022 II SEMESTER

DATE OF AUDIT : 23-06-2022

We, Dr. R. Swapna and Mrs. K. Syamala 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	Stakeholder's feedback related to curriculum design	Graduates exit survey; Alumni survey and employer survey, teachers survey are conducted and presented as consolidated as per format. (Annexure 1.2)
3	Action taken on Minutes of Meeting	Incorporated changes as per the suggestions by DAC,PAC and it's Minutes of meeting, Curriculum changes and it's evidences are enclosed (Annexure 1.3)
4	Percentage of Lab component	28% (17.5/62.5) R20 M.TECH 22.22%(4/18) R19 (Annexure 1.4)
5	Evidence of academic flexibility	27.9% (6/21.5) R20 6%(12/20) R19 M.TECH 33.33(6/18) R19 (2P.E) (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 402 students
2	Faculty cadre ratio Prof : Assoc : Asst	Professors: 3 Associate Professor: 6 Assistant Professors: 22 Annexure:2.1
3	Faculty qualifications	Doctorates : 4 Ph.D.Pursuing :12 M.Tech: 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:	Books – Nil
6	Faculty in Professional bodies Faculty contributions	7 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 : 1 Annexure 2.4
9	List of conferences/seminars/workshops/FDP's/any exclusive programmes attended for enrichment of teaching-learning process	Conferences: 6 Seminars: Nil Workshops: Nil FDP's: 26 Training Program:1 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	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"> • Regular visit by the principal • CC surveillance <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"> • Track sheets are maintained to review syllabus coverage. • Evaluation of answer papers as per the allotment of marks • Yes, the quality of mid-exam question papers is regularly checked by exam cell co-ordinator and the Principal. • Interactive way of teaching • Regular verification of Attendance registers as well as the course files by



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		<p>HOD.</p> <ul style="list-style-type: none"> Minutes of meetings are regularly conducted to discuss the matters that are related to Time Tables, academic planning and its facilities provided.
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"> 7 Guest lectures are conducted for the students to get aware of some core related subjects, which are presented by eminent resource Persons. Add-on Courses:1 Program is conducted for students. Annexure 3.2
8	MOU's with industries for internship	Internship with other industries are done
9	Students feedback and follow up action	Needed action is taken up by students feedback.
10	<p>Scope for self learning ---certificate courses ---online courses</p>	Faculty members were very instrumental in designing and developing 1 Add- on and Certificate course programs.
11	Result analysis and conduct of remedial classes for students with backlogs	<ul style="list-style-type: none"> Based on the results of mid exams, remedial classes are conducted. Based on the results of main exams, backlog classes are conducted. <p>Annexure 3.3</p>
12	<p>Placements ---(%): Industries/organizations:</p>	(24.62%) students , 99 candidates are selected in different 22 companies Annexure 3.4
13	<p>Higher studies(%): --Institutions:</p>	<p>2 students successfully progressed for higher studies .</p> <p>1.K.Dinesh Nandan Texas Tech University(MS)</p> <p>2.K.Giridhar NSRIT(Visakhapatnam)(MBA)</p>



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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 : 6
2	Publications in conferences: National: International:	International conferences: Nil
3	Percentage of Faculty contributing in Research Publications:	Nil
4	Ph.D s registered: Submitted: Awarded: Ph.D. guiding/guided	Registered:--11 Submitted: --Nil Awarded:3 Guiding/guided: Nil
5	Funded R&D projects and consultancy works:	5 Projects are done and its evidences are enclosed Annexure 4.1
6	Incentives for faculty R&D	Incèntives 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

5. Infrastructure and Learning resources

S.No.	Criterion	Observations
1	Infrastructure facilities to improve teaching learning process Class rooms: Laboratories: E-class rooms:	Classrooms:8 Laboratories:12 E-classrooms:1 Seminar halls:1 Faculty rooms:3



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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	Dept. level library resource	Yes

6. Student information support and progression

S.NO	Criterion	Observations
1	Add-on courses	1 Add-on courses are conducted 1. Airflow Around A Spoiler- Computational Fluid Mechanics



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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 2021-2022
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) 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 English speaking capacity of the students.
- 2) Lack of NRI student attraction.
- 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-MECH

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

Sign. Of Academic Auditors


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


Mrs. K. Syamala
Assoc. Professor, Dept. of ECE



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ACADEMIC AUDIT REPORT (2021-2022)

DEPARTMENT OF CIVIL ENGINEERING

A.Y: 2021-2022

II SEM (JAN - DEC)

Date of Audit: 15-09-2022

We, Dr. H. Mallesam Dora and Mr. J.R.G. patnaik 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	13.63%(3/22) III/II-R19 Two additional experiments are conducted in all labs (Annexure 1.4)
5	Evidence of academic flexibility	10.E 12.5% (3/24) IV/II- R16 1 O.E+1 P.E 27.27(6/22)III/II-R19 (Annexure 1.5)

2. Faculty information and their contribution

S.NO.	CRITERION	OBSERVATIONS
1	Student teacher ratio	19:1 8 faculty members are assigned to teach for 65 students



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2	Faculty cadre ratio Prof: Assoc: Asst	Professors: Nil Associate Professor: Nil Assistant Professors: 8
		Annexure:2.1
3	Faculty qualifications	Doctorates: Nil Ph.D. Pursuing: Nil M.Tech: 8
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"> Books: Book chapters: 	Nil
6	Faculty in Professional bodies Faculty contributions	Nil
7	Faculty as resource persons in workshops/training activities	Nil
8	International/national level events organized <ul style="list-style-type: none"> Training Programs workshops/seminars: FDP's: 	FDP's: 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's: 1 Its evidences are enclosed in 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



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3	Student counselling/mentoring mechanism	20 students are allotted for each faculty member for better improvement of their academic results.
4	Initiatives taken for innovative projects	Nil
5	Review and evaluation of student projects: <ul style="list-style-type: none"> Best Projects 	5 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"> 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"> Regular visit by the principal CC surveillance <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"> Track sheets are maintained to review syllabus coverage. Evaluation of answer papers as per the allotment of marks Yes, the quality of mid-exam question papers is regularly checked by exam cell co-ordinator and the Principal. Interactive way of teaching Regular verification of Attendance registers as well as the course files by HOD. Minutes of meetings are regularly conducted to discuss the matters that are related to Time Tables, academic planning and its facilities provided.
7	Training programmes conducted for students <ul style="list-style-type: none"> Guest Lectures Add-on courses Seminars/workshops Compliance of department academic calendar 	<ul style="list-style-type: none"> 4 Guest lectures and 23 seminars are conducted for the students to get aware of some core related subjects, which are presented by eminent resource Persons. Add-on Courses:1 Programs are conducted for students <p>: Annexure 3.2</p>



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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 and its evidence is enclosed
10	Scope for self learning <ul style="list-style-type: none"> • Certificate courses • Online courses 	Faculty members were v e r y instrumental in designing and developing 1 Add-on and Certificate course programs.
11	Result analysis and conduct of remedial classes for students with backlogs	<ul style="list-style-type: none"> • Based on the results of mid exams, remedial classes are conducted. • Based on the results of main exams, backlog classes are conducted.
12	Placements (%): Industries/organizations:	(22%) students out of 39, 18 candidates are selected in different 8 companies Annexure 3.3
13	Higher studies (%): <ul style="list-style-type: none"> • Institutions: 	Nil
14	Student development activities: <ul style="list-style-type: none"> • 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: No. SCOPUS/SCI Indexed journals:
2	Publications in conferences: National: International:	Nil
3	Percentage of Faculty contributing in Research Publications:	Nil



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4	Ph.D. s registered: Submitted: Awarded: Ph.D. guiding/guided	Registered: --1 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

5. Infrastructure and Learning resources

S.No	Criterion	Observations
1	Infrastructure facilities to improve teaching learning process Class rooms: Laboratories: E-class rooms: Seminars: Faculty rooms:	Classrooms:3 Laboratories:5 E-classrooms:1 Seminar halls: 1 Faculty rooms:1
2	Internet facility for faculty and students:	Wi-Fi net is enabled
3	Technical and administrative staff support	2 members of Technical and 2 members of administrative support is provided. P. Santhosh-Technical Ch. Shiva-Technical K. Thapalayya- administrative support B. Bhaskar-administrative support



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4	Department budget: Sanctioned amount: Amount spent: New equipment added: Maintenance of equipment and consumable registers in labs	
5	Details of computing facilities and software	Total Number of computers: 60 List of software procured: 1. Auto CAD 2. STAAD Pro 3. Arc GIS
6	Dept, Newsletters and Magazine	Yes
7	Department level library resources	Yes

6. Student information support and progression

S.NO	Criterion	Observations
1	Add-on courses	Add-on courses: 1 BIM software
2	Student Publications: Dept. student E-Club:	Student Publications: Nil No. of E-club activities for students: 2 Budlers Club, Electoral literacy club.
3	Details for coaching provided for GATE/CRT/any other competitive examinations	External CRT classes are provided, 200 classes for an academic year
4	Industrial visits and Internships	III (Civil) 24, 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 2021-2022
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



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

Weakness

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

Opportunities:

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



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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-CIVIL

Head of the Department

Civil Engineering

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Sign. of Academic Auditors

Dr A Bala Krishna

Professor, Dept, of CSE

Dr R Swapna

Professor, Dept. of BS&H



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ACADEMIC AUDIT REPORT (2021-2022)

Dept. of BASIC SCIENCES AND HUMANITIES

A.Y: 2021-2022

SEM-II

Date of Audit: 20-06-2022

We, Dr. B.Avinash Ben and Mrs. K. Syamala 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. Annexure1.1
2	Stakeholders feedback related to curriculum design	N/A
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 : Assoc : Asst	Professors: 0 Associate Professor: 5 Assistant Professors: 17 Annexure:2.1



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3	Faculty qualifications	Doctorates : 6 PhD Pursuing :3 M.Sc: 13
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	3 Faculty members are enrolled in Professional bodies and its evidence is enclosed
7	Faculty as resource persons in workshops/training activities	Training programs:1
8	International/national level events organized -- Training Programs --workshops/seminars: --FDP's :	FDP: 2 Annexure 2.3
9	List of conferences/seminars/workshops/FDP's/any exclusive programmes attended for enrichment of teaching-learning process	Conferences: Nil Seminars: Nil Workshops: Nil FDP's: 4 Annexure 2.4

3. Teaching learning process and evaluation

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



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		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"> • Best Projects 	Not applicable
6	Monitoring of teaching-learning process <ul style="list-style-type: none"> • 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"> • Regular verification of Attendance registers • Uploading of course material with lesson plan. • Track sheets are maintained to review syllabus coverage
7	Training programmes conducted for students <ul style="list-style-type: none"> • Guest Lectures • Add-on courses • Seminars/workshops • Compliance of department academic calendar 	Add-on Courses:1 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"> • certificate courses • online courses 	N/A
11	Result analysis and conduct of remedial classes for students with backlogs	<ul style="list-style-type: none"> • Remedial classes are conducted to form an improvement from I



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		<p>Mid exam to II mid exam</p> <ul style="list-style-type: none"> Extra classes are conducted for backlog students <p>Annexure 3.2</p>
12	<p>Placements ---(%):</p> <p>Industries/organizations:</p>	N/A
13	<p>Higher studies(%):</p> <ul style="list-style-type: none"> Institutions: 	N/A
14	<p>Student development activities:</p> <ul style="list-style-type: none"> Co-curricular Extra-curricular activities 	<p>Students are participated both in co-curricular and extra-curricular activities</p> <p>Annexure 3.3</p>

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:3</p> <p>No. SCOPUS/SCI Indexed journals: 0</p> <p>Annexure 4.1</p>
2	<p>Publications in conferences:</p> <p>National:</p> <p>International:</p>	Nil
3	Percentage of Faculty contributing in Research Publications:	14% of faculty are contributed for Research publications.
4	<p>Ph.D s registered:</p> <p>Submitted:</p> <p>Awarded:</p> <p>Ph.D. guiding/guided</p>	<p>Registered:3</p> <p>Submitted: 1</p> <p>Awarded: 6</p> <p>Guiding/guided: Nil</p>
5	Funded R&D projects and consultancy works:	<p>Projects are done and its evidences are enclosed</p> <p>Annexure 4.2</p>
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



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

5. Infrastructure and Learning resources

S.No	Criterion	Observations
1	Infrastructure facilities to improve teaching learning process Class rooms: Laboratories: E-class rooms: Seminars: Faculty rooms:	Classrooms:14 Laboratories:3 E-classrooms: 1 Seminar halls: 2 Faculty rooms: 4
2	Internet facility for faculty and students:	Wi-Fi net is enabled
3	Technical and administrative staff support	3 members of Technical and 3members of administrative support is provided. P.Santhosh---Technical N.Chitti Babu-- Technical B.Appala Raju --- Technical Ch. Rajani---- administrative Ch.Shiva---- administrtive B.Ewarrao---- administrtive
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 : 1 1. Certification Course On MS Office
2	Student Publications: Dept. student E-Club:	Student Publications: Nil No. of E-club activities for students: Nil
3	Details for coaching provided for GATE/CRT/any other competitive examinations	External CRT classes are provided, 200 classes for an academic year
4	Industrial visits and Internships	3 Internships and 3 industrial visits are regularly conducted

7. Governance, Leadership and Management

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



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6	Risk evaluation/safety measures	Maintaining fire extinguishers in all the prominent places of college.
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8. Strengths, weakness and areas of Improvement

Strengths

- 1) Good faculty retention
- 2) Students are actively participated in various extracurricular activities
- 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 English speaking capacity of the students.
- 3) Poor socio-economic status of the students.
- 4) Lack of Mathematical Knowledge 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.
- 5) Can Increase more number of Computer Science related Courses



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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)

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Bhogapuram (M), Vizianagaram (D)-531162

Sign. of Academic Auditors

(Dr. B. Avinash Ben)

Assoc. prof, Dept. of Mechanical

(Mrs. K. Syamala)

Assoc. Prof, Dept. of ECE



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ACADEMIC AUDIT REPORT (2021-2022)

DEPARTMENT OF MANAGEMENT STUDIES

ACADEMIC YEAR: 2021-2022

II-IV SEMESTERS

DATE OF AUDIT: 30-06-2022

We, Dr. R. Swapna 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 173 students
2	Faculty cadre ratio Prof : Assoc : Asst	Professors: 0 Associate Professor: 2 Assistant Professors: 11 Annexure:2.1
3	Faculty qualifications	Doctorates : 1 Ph.D. Pursuing :0
4	Faculty experience and retention	Annexure 2.2 is enclosed by mentioning the (list of faculty, qualifications, total experience, experience at AIET)
5	Faculty contribution in writing: • Books: • Book chapters:	Books-Nil
6	Faculty in Professional bodies Faculty contributions	Nil
7	Faculty as resource persons in workshops/training activities	Training activities: 2
8	International/national level events organized • Training Programs • workshops/seminars: • FDP's :	Training Programs: Nil Workshops/ seminars: Nil FDP-2 Annexure2.3
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:2 Annexure2.4

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 slow learners
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"> • Best Projects 	5 Best projects are carried as per PRC guidelines Annexure 3.1
6	<ul style="list-style-type: none"> • 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"> • Regular visit by the principal • CC surveillance • 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 • Track sheets are maintained to review syllabus coverage. • Evaluation of answer papers as per the allotment of marks • Yes, the quality of mid-exam question papers is regularly checked by exam cell co- Ordinator and the principal. • Interactive way of teaching • Regular verification of Attendance registers as well as the course files by HOD. • Minutes of meetings are regularly conducted to discuss the matters that are related to Time Tables, academic planning and its facilities provided.
7	Training programmes conducted for students <ul style="list-style-type: none"> • Guest Lectures • Add-on courses • Seminars/workshops 	<ul style="list-style-type: none"> • 1 Guest lectures is conducted for the students to get aware of some core related subjects, which are presented by eminent resource Persons.



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	<ul style="list-style-type: none"> Compliance of department academic calendar 	<ul style="list-style-type: none"> 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 and its evidences are enclosed. Annexure 3.3
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"> certificate courses online courses 	Nil
11	Result analysis and conduct of remedial classes for students with backlogs	Based on the results of mid exams, remedial classes are conducted. Based on the results of main exams, backlog classes are conducted.
12	Placements ---(%):	Placements: 45% out of 93 students
13	Higher studies(%):	Higher Studies: Nil
14	Student development activities: <ul style="list-style-type: none"> Co-curricular Extra-curricular activities 	Students are participated in co-curricular 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: 1
2	Publications in conferences: National: International:	National: Nil International: 1
3	Percentage of Faculty contributing in Research Publications:	15% Percentage of Faculty contributing in Research Publications
4	Ph.D s registered:	Ph.D s : 1 registered: 1



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	Submitted: Awarded: Ph.D. guiding/guided	Submitted:0 Awarded:0 Ph.D. guiding/guided:0
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/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 3membersof administrative support is provided. P. Santhosh---Technical Ch. Shiva --- Technical K. Thapalayya-- administrative Support
4	Department budget: Sanctioned amount: Amount spent: New equipment added: Maintenance of equipment and	



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	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	2 Add-on courses are conducted 1. Warehouse Management 2. Business network global track and trace
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 2021-2022
2	MOUs with premier institutions for knowledge exchange	MOU'S And its Annexure7.1



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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) Strong department level support for faculty research activities
- 2) Good Research and Development cell
- 3) Students are actively participated in extra circular activities
- 4) More number of student placements
- 5) Supportive working environment among department members

Weakness

1. Very less number of students are coming from other states
2. More number of students are not having mathematical ability
3. There is a need to modernize classrooms with ICT facilities

Opportunities:

1. By establishing stronger relationships with industry institute interaction.
2. There is a scope for students new venture development.
3. Interdisciplinary growth of core departments



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4. Opportunity to maximize the potentiality of Centers of Excellence

Suggestions for Improvement

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

V. Sai Prabh
HOD-MBA

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

Sign. of Academic Auditors

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

Sumathi
Mrs. M.Sumathi
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 2021-2022

As per the IQAC decision, Dr. Gandhi Satyanarayana, issued a circular on 10-12-2021 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 over all action taken report and submitted it to the principal

S.no	NAME OF THE DEPARTMENT	AUDIT MEMBERS
1	Computer Science Engineering	SEM -I Dr.V.Sai prasanth Mr.J.R.G. Patnaik
2	Electronics Communication Engineering	SEM -I Dr.B.Murali Krishna Mr.M.Sumathi
3	Electrical and Electronics Engineering	SEM -I Dr.R.Swapna Mr.R.Venkatesh
4	Mechanical Engineering	SEM -I Dr..H.Mallessam Dora Mrs. M.Sumathi
5	Civil Engineering	SEM -1 Dr. V.Sai Prasanth Mrs.K.Syamala
6	Basic Sciences and Humanities	SEM-I Dr.B.Avinash Ben Mrs.K.Syamala
7	Master of Business Administration	SEM -I Dr.R.Swapana Mr.R.Venkatesh

I.CO POs curriculum

1. COs and PO attainment:

As per the procedure established, regarding the CO's and PO's attainment, by observing R16, R19, R20 regulations.

As per discussions by Audit committee, it is suggested to CSE department, to strengthen PO10,



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regularly for student association activities which are to be conducted.

In the same way, Suggestions given for EEE department to strengthen PO1, PO2 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 3rd year, R20 for 1st and 2nd years is found to be satisfactory, but for some more persistence should provide in selecting elective subjects in enhancing the advanced learning for R19.

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:



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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.
- IV. **EEE:** Nil
- V. **CIVIL:** only 1 faculty is initiated as the resource persons for 1 FDP



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-
- 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 Principal. So, we reported as satisfactory.



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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.



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- 3. Incentives for faculty R&D:** It is satisfactory as the institute encourages the faculty, to enhance the research, by providing incentives for peer reviewed publications, consultancy works, writing books and filing up the patents.
- 4. MOU's with industries/R&D/Premier Institutes:** In this academic year, 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 aspirers

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.



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



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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.
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

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Principal

PRINCIPAL

AVANTHI INSTITUTE OF ENGG. & TEC

Cherukupally (V), Chittivalasa (SAC

Bhogapuram (M),

Vizianagaram (Dist.)-531162



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CIRCULAR

Internal Quality Assurance Cell (IQAC)

ACADEMIC AUDIT (2021-2022)

Date:21-12-2021

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 2021-2022 as per the team given below and as per the schedule from 20th to 31th Dec2021. 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. V. Sai Prasanth Mr. J. R. G. Patnaik	22-12-2021
2	Electronics and Communication Engineering	SEM -I Dr. B. Murali Krishna Mr. M. Sumathi	27-12-2021
3	Electrical and Electronics Engineering	SEM -I Dr.R.Swapna Mr.R.Venkatesh	20-12-2021
4	Mechanical Engineering	SEM -I Dr..H.MallessamDora	24-12-2021



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		Mrs.M.Sumathi	
5	Civil Engineering	SEM -1 Dr.V.Sai Prasanth Mrs.K.Syamala	29-12-2021
6	Basic Sciences and Humanities	SEM-I Dr.B.Avinash Ben Mrs.K.Syamala	28-12-2021
7	Master of Business Administration	SEM-I Dr.R.Swapana Mr.R.Venkatesh	21-12-2021

Copy to:

The Principal

All the Department

H.O.D's

The Members of IQAC

Principal

PRINCIPAL

AVANTHI INSTITUTE OF ENGG. & TECH.
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IQAC Coordinator

COORDINATOR, IQAC
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ACADEMIC AUDIT REPORT (2021-2022)

Dept. of COMPUTER SCIENCE AND ENGINEERING

We, **Dr. V.Sai Prasanth** and **Mr. J.R.G. Patnaik** 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.

Academic Year: 2021-2022

I SEMESTER

Date of Audit: 22-12-2021

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) I-I - R20 20.93% (3/22) II-I-R20 30%(9/41)-R20 -AI&ML 30%(9/41)-R20 -DS 21.05% (4/19) III-I -R19 18.18%(4/22) IV-I- R16 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	2 Core electives 54.5%(12/22)- R16 M.Tech 2 core elective+1 open elective 17.64% (12/68)-R19 (Annexure 1.5)
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2. Faculty information and their contribution

S.NO.	CRITERION	OBSERVATIONS
1	Student teacher ratio	19:1 40 faculty are assigned to teach for 599 students
2	Faculty cadre ratio Prof : Assoc : Asst	Professors: 4 Associate Professor: 5 Assistant Professors: 31 Annexure:2.1
3	Faculty qualifications	Doctorates : 4 Ph.D. Pursuing :3 M.Tech: 33
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	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: Nil 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	FDP's: 49 Conferences: Nil Seminars: 12 Workshops: Nil



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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
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	<ul style="list-style-type: none"> • Regular visit by the principal • CC surveillance <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"> • Track sheets are maintained to review syllabus coverage. • Evaluation of answer papers as per the allotment of marks • Yes, the quality of mid-exam question papers is regularly checked by exam cell co-ordinator and the Principal. • Interactive way of teaching • Regular verification of Attendance registers as well as the course files by



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	---Minutes of class committee meetings and action taken	HOD. • Minutes of meetings are regularly conducted to discuss the matters that are related to Time Tables, academic planning and its facilities provided
7	Training programmes conducted for students ---Guest Lectures ---Add-on courses ---Seminars/workshops ---Compliance of department academic calendar	• 3 Guest lectures, 12 Seminars are conducted for the students to get aware of some core related subjects, which are represented by eminent resource Persons. • 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	Scope for self learning ---certificate courses ---online courses	Faculty members were very instrumental in designing and developing 4 Add- on and Certificate course programs.
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. Result Analysis Annexure 3.3
12	Placements ---(%): Industries/organizations:	NA
13	Higher studies(%): --Institutions:	4 students are progressed for higher studies. ○ Ravvada Gayathri in MS ○ Tiyyali Meghana in MS ○ Salividi Ramya in MS ○ Maneesh Ujji in MS
14	Student development activities: ---Co-curricular ---Extra-curricular activities	Students are participated both in co-curricular and extra-curricular activities Annexure 3.4



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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: 4
3	Percentage of Faculty contributing in ResearchPublications:	5 Percentage of Faculty contributing in Research Publications
4	Ph.D s registered:Submitted: Awarded: Ph.D. guiding/guided	Registered:--3 Submitted: --Nil Awarded: Nil Guiding/guided: Nil
5	Funded R&D projects and consultancy works:	Funded R&D projects done and itsEvidences are enclosed Annexure 4.1
6	Incentives for faculty R&D	Incentives for faculty Researchpublications 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



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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:16 Laboratories:5 E-classrooms: 1 Seminar halls: 2 Faculty rooms: 4
2	Internet facility for faculty and students:	Wi-Fi net is enabled
3	Technical and administrative staff support	3 members of Technical and 1 members of administrative support is provided. <ul style="list-style-type: none">o P. Santhosh-- Technicalo Ch. Shiva--Technicalo K. Thalupulayya-- Technicalo T. Srinu-- Administrative support
4	Department budget: Sanctioned amount: Amount spent: New equipment added: Maintenance of equipment and consumable registers in labs	
5	Details of computing facilities and software	Total number of computers: 330 List of softwares: Windows7, Windows10, office-2007, oracle-10g, Rational Rose, TURBOC++, JDK, TURBO C, ORACLE 10G, Python
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 conducted:4 <ul style="list-style-type: none">• IOS mobile application development



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		<ul style="list-style-type: none"> • Network server Security • Fundamentals of React JS • Fundamentals of React JS
2	Student Publications:Dept. student E-Club:	Student Publications: Nil No. of E-club activities for students: 2 <ul style="list-style-type: none"> • Iot club • Electoral literacy club
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	From CSE II year- 191 students CSE III year -184 students CSD II year-55 students CSM II year-65 students are participated in 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 2021-2022
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) Research and Development cell
- 3) Strong department level support for faculty research activities
- 4) Supportive working environment among department members

Weakness

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

Opportunities:

- 1) Increase of research funding.
- 2) By establishing stronger relationships with R&D organization.
- 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.

aw

HOD-CSE

Head of the Department

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

aw

COORDINATOR, IQAC

AVANTHI INSTITUTE OF ENGG. & TECH.

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Bhogapuram (M), Vizianagaram (D)-531162

Sign. of Academic Auditors

V. Sai Prasanth

Dr. V.Sai prasanth

Assoc. Prof. & HOD of MBA

J.R.G. Patnaik

Mr. J.R.G. Patnaik

Assoc. Prof. & HOD of BS&H



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ACADEMIC AUDIT REPORT (2021-2022)

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

ACADEMIC YEAR: 2021-2022

I SEM

Date of Audit: 20-12-2021

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

1. COs, POs Curriculum

S.NO.	CRITERION	OBSERVATIONS
1	COs and POs attainment	CO's and PO's attainment calculated as per the procedure established by PAC and (Annexure 1.1) is enclosed
2	Stakeholders feedback related to curriculum design	Graduates exit survey; Alumni survey and employer survey are conducted and presented as consolidated as per format. (Annexure 1.2)
3	Action taken on Minutes of Meeting	Incorporated changes as per the suggestions by DAC, PAC and its Minutes of meeting, Curriculum changes and its evidences are enclosed (Annexure 1.3)
4	Percentage of Lab component	23.07%(4.5/19.5) 1-1 in R20 30.23%(6.5/21.5) 2-1 in R20 20%(4/20) 3-1 in R19 18.18%(4/18) 4-1 in R16 M.TECH 22.22(4/18)1-1 in R19-PS 22.22(4/18)1-1 in R19-PE -Two additional experiments are conducted in all labs (Annexure 1.4)
5	Evidence of academic flexibility	27.27%(6/22) 4-1 in R16(2P.E) M.TECH 33.33%(6/18) 1-1 in R19(2P.E) for PS 18.75%(6/32)3-1 in R19(1P.E+1O.E)for PE



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Annexure 1.5

2. Faculty information and their contribution

S.NO.	CRITERION	OBSERVATIONS
1	Student teacher ratio	19:1 18 faculty are allotted to teach for 170 students
2	Faculty cadre ratio Prof : Asso : Asst	Professors: 1 Associate Professor: 2 Assistant Professors: 15 Annexure:2.1
3	Faculty qualifications	Doctorates: 1 Ph.D. Pursuing :1 M. Tech: 15
4	Faculty experience and retention	Annexure 2.2 is enclosed by mentioning the (list of faculties, qualifications, total experience, experience at AIET)
5	Faculty contribution in writing: <ul style="list-style-type: none">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 <ul style="list-style-type: none">Training ProgramsWorkshops/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 :Nil workshops: Nil FDP's :Nil

3. Teaching learning process and evaluation

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



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	Attendance Exams	coadunation 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"> • 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"> • Regular verification of Attendance registers • Uploading of course material with lesson plan. • Track sheets are maintained to review syllabus coverage
7	<p>Training programmes conducted for students</p> <ul style="list-style-type: none"> • Guest Lectures • Add-on courses • Seminars/workshops • Compliance of department academic calendar 	<ul style="list-style-type: none"> • Guest lectures, seminars are conducted for the students to get aware of some core related subjects, which are presented by eminent resource Persons. • Add-on courses: 2Programs are conducted f or students:Annexure3.2
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



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10	Scope for self learning <ul style="list-style-type: none"> • Certificate courses • Online courses 	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"> • Remedial classes are conducted to form an improvement from Ist Mid exam to II mid exam • Extra classes are conducted for backlog students Annexure 3.3
12	Placements (%): Industries/organizations:	Nil
13	Higher studies(%): Institutions:	1 student is progressed for higher studies S. Kambala in MS
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:	11% of Faculty contributing in Research Publications:
4	Ph.D. s registered: Submitted: Awarded: Ph.D. guiding/guided	Registered:--2 Submitted: --Nil Awarded: 1 Guiding/guided: Nil
5	Funded R&D projects and consultancy works:	Projects are done and its evidences are enclosed Annexure 4.1
6	Incentives for faculty R&D	Incentives for faculty Research publications as per HR policy
7	MOU's with industries/R&D/Premier Institutes	MOU's with industries and R&D annexure:4.2



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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 Class rooms: Laboratories: E-class rooms: Seminars: Faculty rooms:	Classrooms:7 Laboratories:3 E-classrooms: 1 Seminar halls: 1 Faculty rooms: 2
2	Internet facility for faculty and students:	Wi-Fi net is enabled
3	Technical and administrative staff support	4 members of Technical support is provided. P.Santhosh-Technical Ch.Shiva- Technical I.Srinu- Lab Assistant T.Ramu- Lab Assistant
4	Department budget: Sanctioned amount: Amount spent: New equipment added: Maintenance of equipment and consumable registers in labs	
5	Details of computing facilities and software	60 systems are provided to the students List of software procured: 1.MATLAB 2.PSPICE
6	Dept, Newsletters and Magazine	Yes
7	Department level library resources	Yes

6. Student information support and progression

S.NO	Criterion	Observations
1	Add-on courses	Add-on courses:2 1.IOT applications in smart city 2.Power automation



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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)-10, II(EEE)-48, III(EEE)-49 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 2021-2022
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



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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.

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.R.Swapna)

Professor, Dept. of BS&H

(Mr.R. Venkatesh)

Asst Professor, Dept. of CIVIL



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ACADEMIC AUDIT REPORT (2021-2022)

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

ACADEMIC YEAR: 2021-2022

I SEM

Date of Audit: 27-12-2021

We, Dr. B. Murali Krishna and Mrs. M. Sumathi 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	21.95%(9/41) -R20 21.42%(4.5/21) -R19 18.18%(4/22)-R16 M.Tech 22.22%(4/18)-R19 -Two additional experiments are conducted in all labs (Annexure 1.4)
5	Evidence of academic flexibility	1 Core elective 27.27%(6/22)-R16 1 Professional Elective



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		14.28%(3/21)-R19 M.Tech 3 P.E + 1 O.E 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 are assigned to teach for 378 students
2	Faculty cadre ratio Prof : Assoc : Asst	Professors: 2 Associate Professor: 4 Assistant Professors: 20 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
8	International/national level events organized <ul style="list-style-type: none">• Training Programs• Workshops/seminars:• FDP's:	FDP's:2



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9	List of conferences/seminars/workshops/FDP's/any exclusive programmes attended for enrichment of teaching-learning process	Conferences: 2 Seminars: Nil Workshops: Nil FDP's: 9 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
6	Monitoring of teaching-learning process Observation of teaching process in class rooms as per schedule <ul style="list-style-type: none"> • 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 	<ul style="list-style-type: none"> • Regular visit by the principal • CC surveillance 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"> • Track sheets are maintained to review syllabus coverage. • Evaluation of answer papers as per the allotment of marks • Yes, the quality of mid-exam question papers is regularly checked by exam cell coordinator and the principal. • Interactive way of teaching



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	and action taken	<ul style="list-style-type: none"> Regular verification of Attendance registers as well as the course files by HOD. Minutes of meetings are regularly conducted to discuss the matters that are related to Time Tables, academic planning and its facilities provided.
7	Training programmes conducted for students <ul style="list-style-type: none"> Guest Lectures Add-on courses Seminars/workshops Compliance of department academic calendar 	<ul style="list-style-type: none"> seminars are conducted for the students to get aware of some core related subjects, which are presented by eminent resource Persons. Add-on Courses:2 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	Scope for self learning ---certificate courses ---online courses	Faculty members were very instrumental in design in 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"> Based on the results of mid exams, remedial classes are conducted. Based on the results of main exams, backlog classes are conducted. Annexure 3.3
12	Placements (%): Industries/organizations:	Nil
13	Higher studies (%): --Institutions:	2 students are progressed for higher studies.



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		1. B. Kumari kusuma lata in M. TECH 2. Yanamala tharun reddy in MS
14	Student development activities: <ul style="list-style-type: none"> • Co-curricular • Extra-curricular activities 	Students are participated both in co-curricular and extra-curricular activities Annexure 3.4

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:	7% of faculty are contributing in Research publications
4	Ph.D. s registered: Submitted: Awarded: Ph.D. guiding/guided	Registered:5 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 centers of excellence established:	-----
9	Skill development centre established	YES, Skill development centre established in collaboration with APSSDC

5. Infrastructure and Learning resources

S. No	Criterion	Observations
1	Infrastructure facilities to improve teaching	Classrooms:6



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	<p>learning process</p> <ul style="list-style-type: none"> • Class rooms • Laboratories • E-class rooms • Seminars • Faculty rooms 	<p>Laboratories:6 E-classrooms: 1 Seminar halls: 1 Faculty rooms: 3</p>
2	Internet facility for faculty and students:	Wi-Fi net is enabled
3	Technical and administrative staff support	<p>5 members of Technical support is provided.</p> <p>P.Santhosh-Technical Ch.Shiva- Technical T.Jyothi-Technical G.Guruvulu-Technical K.Thapulayya-Technical</p>
4	<p>Department budget: Sanctioned amount: Amount spent: New equipment added: Maintenance of equipment and consumable registers in labs</p>	
5	Details of computing facilities and software	<p>Total number of computers:60 List of software procured:1.MATLAB 2.XILINX 3.KEEL-V4,V5 4.ARDUINO 5.HFSS 6.MULTISIM</p>
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	<p>Add-on courses :2 1.Data visualization tableaur 2.IOT implementation using Arduino</p>



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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	Industrial visits and Internships are 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	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 modernize classrooms with ICT facilities

Opportunities:

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

Suggestions for Improvement

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

HOD-ECE

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

Sign. of Academic Auditors

(Dr .B. Murali krishna)

Professor, Dept. of MECH

(Mrs. M. Sumathi)

Asst.Professor, Dept. of civil



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ACADEMIC AUDIT REPORT (2021-2022)

DEPARTMENT OF MECHANICAL ENGINEERING

ACADEMIC YEAR : 2021-2022 I SEMESTER

DATE OF AUDIT : 24-12-2021

We, Dr. H. Mallesam Dora and Mrs. M. Sumathi 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	23.07% (4.5/19.5) I/I R20 14.28% (3/21) II/I R19 22.5% (4.5/20) III/I R19 45.4%(10/22) IV/I R16 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	54.5%(12/22) IV/I R16 83.3% (17.5/21) II/I R19 75%915/20) III/I 76.9%(15/19.5) I/IR20 MTECH 1O.E+2 P.E 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 31 faculty members are assigned to teach for 402 students
2	Faculty cadre ratio Prof : Assoc : Asst	Professors: 3 Associate Professor: 6 Assistant Professors: 22 Annexure:2.1
3	Faculty qualifications	Doctorates : 4 Ph.D.Pursuing :12 M.Tech: 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	7 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 : 1
9	List of conferences/seminars/workshops/FDP's/any	Conferences: 6 Seminars: Nil



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	exclusive programmes attended for enrichment of teaching-learning process	Workshops: Nil FDP's: 26 Training Program:1 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	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	<ul style="list-style-type: none"> • Regular visit by the principal • CC surveillance <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"> • Track sheets are maintained to review syllabus coverage. • Evaluation of answer papers as per the allotment of marks • Yes, the quality of mid-exam question papers is regularly checked by exam cell co-ordinator and the Principal. • Interactive way of teaching • Regular verification of Attendance registers as well as the course files by HOD.



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	---Minutes of class committee meetings and action taken	<ul style="list-style-type: none"> Minutes of meetings are regularly conducted to discuss the matters that are related to Time Tables, academic 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"> 7 Guest lectures are conducted for the students to get aware of some core related subjects, which are presented by eminent resource Persons. Add-on Courses:4 Programs are conducted for students Annexure 3.2
8	MOU's with industries for internship	<ul style="list-style-type: none"> Internship with other industries is done.
9	Students feedback and follow up action	<ul style="list-style-type: none"> Needed action is taken up by students feedback.
10	Scope for self learning ---certificate courses ---online courses	<ul style="list-style-type: none"> Faculty members were very 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"> Based on the results of mid exams, remedial classes are conducted. Based on the results of main exams, backlog classes are conducted. Annexure 3.3
12	Placements ---(%): Industries/organizations:	NA
13	Higher studies(%): --Institutions:	2 students successfully progressed for higher studies. 1.K.Dinesh Nandan Texas Tech University(MS) 2.K.Giridhar NSRIT(Visakhapatnam)(MBA)
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

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 : 6
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2	Publications in conferences: National: International:	International conferences: Nil
3	Percentage of Faculty contributing in Research Publications:	Nil
4	Ph.D s registered: Submitted: Awarded: Ph.D. guiding/guided	Registered:--11 Submitted: --Nil Awarded: 3 Guiding/guided: Nil
5	Funded R&D projects and consultancy works:	5 Projects are done and its evidences are enclosed Annexure 4.1
6	Incentives for faculty R&D	Incentives for faculty Research publications as per HR policy
7	MOU's with industries/R&D/Premier Institutes	MOU's with industries and R&D annexure:4.2
8	Research centers of excellence established:	----
9	Skill development center established	YES, Skill development center established in collaboration with APSSDC

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:8 Laboratories:12 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	6 members of Technical and 1 member of administrative support is provided.



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		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	4 Add-on courses are conducted 1. Rob cad-Basics 2. Turning NC control programming 3. NX 10 FOR ENGINEERING DESIGN 4. Piping Engineering & Design
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	External CRT classes are provided, 200



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

8. Strengths, weakness and areas of Improvement

Strengths

- 1) Good faculty retention
- 2) Effective technical and Innovative skills
- 3) More number of student placements
- 4) Good computational and experimental facilities



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- 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 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

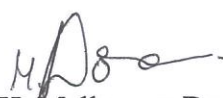
To overcome the challenges and improve the quality of education, evaluation can be done on the following factors such as maintenance of infrastructure, pedagogy skills, quality of teacher's education and extra-curricular as well as co-curricular activities.



HOD-MECH

HOD

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

Sign. Of Academic Auditors


Dr. H. Mallesam Dora
Assoc. Professor of EEE


Mrs. M Sumathi
Asst. Professor, Dept. of Civil



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ACADEMIC AUDIT REPORT (2021-2022)

DEPARTMENT OF CIVIL ENGINEERING

AY: 2021-2022

I SEM (JULY TO DEC)

Date of Audit: 29-12-2021

We, Dr. V. Sai Prasanth and Mrs. K. Syamala 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	15% (3/20) III/I -R19 18.18% (4/22) IV/IR16 Two additional experiments are conducted in all labs (Annexure 1.4)
5	Evidence of academic flexibility	27.27% (6/22) IV/I - R16 (2P.E) 30% (6/20) III/I-R19(1O. E+1P.E) (Annexure 1.5)

2. Faculty information and their contribution

S.NO.	CRITERION	OBSERVATIONS
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1	Student teacher ratio	19:1 8 faculty members are assigned to teach for 65 students
2	Faculty cadre ratio Prof: Assoc: Asst	Professors: Nil Associate Professor: Nil Assistant Professors: 8 Annexure:2.1
3	Faculty qualifications	Doctorates: Nil Ph.D. Pursuing: 1 M.Tech: 8
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	Nil
8	International/national level events organized <ul style="list-style-type: none"> • Training Programs • workshops/seminars: • FDP's: 	FDP's: 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's: 1 Its evidences are enclosed in 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 slow learners
3	Student counselling/mentoring mechanism	20 students are allotted for each faculty member for better improvement of their academic results.
4	Initiatives taken for innovative projects	Nil
5	Review and evaluation of student projects: <ul style="list-style-type: none"> Best Projects 	5 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"> 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"> Regular visit by the principal CC surveillance <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"> Track sheets are maintained to review syllabus coverage. Evaluation of answer papers as per the allotment of marks Yes, the quality of mid-exam question papers is regularly checked by exam cell co-ordinator and the Principal. Interactive way of teaching Regular verification of Attendance registers as well as the course files by HOD. Minutes of meetings are regularly conducted to discuss the matters that are related to Time Tables, academic planning and its facilities provided.



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7	<p>Training programmes conducted for students</p> <ul style="list-style-type: none"> • Guest Lectures • Add-on courses • Seminars/workshops • Compliance of department academic calendar 	<ul style="list-style-type: none"> • 4 Guest lectures and 23 seminars are conducted for the students to get aware of some core related subjects, which are presented by eminent resource Persons. • Add-on Courses: 1 Programs are conducted for students: Annexure 3.2
8	MOU's with industries for internship	Internship with other industries is done and its evidences are enclosed. Annexure 3.3
9	Students feedback and follow up action	Needed action is taken up by students' feedback
10	<p>Scope for self learning</p> <ul style="list-style-type: none"> • Certificate courses • Online courses 	Faculty members were v e r y instrumental in design and developing 1 Add-on and Certificate course programs.
11	Result analysis and conduct of remedial classes for students with backlogs	<ul style="list-style-type: none"> • Based on the results of mid exams, remedial classes are conducted. • Based on the results of main exams, backlog classes are conducted. Annexure3.4
12	<p>Placements (%):</p> <p>Industries/organizations:</p>	NA
13	<p>Higher studies (%):</p> <ul style="list-style-type: none"> • Institutions: 	Nil
14	<p>Student development activities:</p> <ul style="list-style-type: none"> • 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	<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>



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2	Publications in conferences: National: International:	Nil
3	Percentage of Faculty contributing in Research Publications:	Nil
4	Ph.D. s registered: Submitted:	Registered: 1 Submitted: Nil
	Awarded: Ph.D. guiding/guided	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

5. Infrastructure and Learning resources

S.NO	CRITERION	OBSERVATIONS
1	Infrastructure facilities to improve teaching learning process <ul style="list-style-type: none"> • Class rooms: • Laboratories: • E-class rooms: • Seminars: • Faculty rooms: 	Classrooms: 3 Laboratories:5 E-classrooms:1 Seminar halls: 1 Faculty rooms:1
2	Internet facility for faculty and students:	Wi-Fi net is enabled
3	Technical and administrative staff support	2 members of Technical and 2 members of administrative support is provided. P. Santhosh-Technical Ch. Shiva-Technical K. Thapalayya- administrative support B. Bhaskar- administrative support



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4	Department budget: Sanctioned amount: Amount spent: New equipment added: Maintenance of equipment and consumable registers in labs	
5	Details of computing facilities and software	Total Number of computers: 60 List of software procured: 1. Auto CAD 2. STAAD Pro 3. Arc GIS
6	Dept, Newsletters and Magazine	Yes
7	Department level library resources	Yes

6. Student information support and progression

S.NO	CRITERION	OBSERVATIONS
1	Add-on courses	Add-on courses- 1 3D modeling on Google sketch up
2	Student Publications: Dept. student E-Club:	Student Publications: Nil No. of E-club activities for students: 2 Budlers Club, Electoral literacy club.
3	Details for coaching provided for GATE/CRT/any other competitive examinations	External CRT classes are provided, 200 classes for an academic year
4	Industrial visits and Internships	III (Civil) 24, 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 2021-2022
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



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

Weakness

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

Opportunities:

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



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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.

R. 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

Asst. Professor, Dept. of MBA

K. Syamala

Mrs. K. Syamala

Asst. Professor, Dept. of ECE



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ACADEMIC AUDIT REPORT (2021-2022)

Dept. of BASIC SCIENCES AND HUMANITIES

A.Y: 2021-2022

SEM-I

Date of Audit: 28-12-2021

We, Dr. B.Avinash Ben and Mrs. K. Syamala 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. Annexure1.1
2	Stakeholders feedback related to curriculum design	N/A
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 : Assoc : Asst	Professors: 0 Associate Professor: 5 Assistant Professors: 17 Annexure:2.1



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3	Faculty qualifications	Doctorates : 6 PhD Pursuing :3 M.Sc: 13
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	3 Faculty members are enrolled in Professional bodies and its evidence is enclosed
7	Faculty as resource persons in workshops/training activities	Training programs:1
8	International/national level events organized -- Training Programs --workshops/seminars: --FDP's :	FDP: 2 Annexure 2.3
9	List of conferences/seminars/workshops/FDP's/any exclusive programmes attended for enrichment of teaching-learning process	Conferences: Nil Seminars: Nil Workshops: Nil FDP's: 4 Annexure 2.4

3. Teaching learning process and evaluation

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



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		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"> • Best Projects 	Not applicable
6	Monitoring of teaching-learning process <ul style="list-style-type: none"> • 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"> • Regular verification of Attendance registers • Uploading of course material with lesson plan. • Track sheets are maintained to review syllabus coverage
7	Training programmes conducted for students <ul style="list-style-type: none"> • Guest Lectures • Add-on courses • Seminars/workshops • Compliance of department academic calendar 	Add-on Courses:1 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"> • certificate courses • online courses 	N/A
11	Result analysis and conduct of remedial classes for students with backlogs	<ul style="list-style-type: none"> • Remedial classes are conducted to form an improvement from I



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		Mid exam to II mid exam <ul style="list-style-type: none"> Extra classes are conducted for backlog students Annexure3.2
12	Placements ---(%): Industries/organizations:	N/A
13	Higher studies(%): <ul style="list-style-type: none"> Institutions: 	N/A
14	Student development activities: <ul style="list-style-type: none"> Co-curricular Extra-curricular activities 	Students are participated both in co-curricular and extra-curricular activities Annexure 3.3

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:3 No. SCOPUS/SCI Indexed journals: 0 Annexure 4.1
2	Publications in conferences: National: International:	Nil
3	Percentage of Faculty contributing in Research Publications:	14% of faculty are contributed for Research publications.
4	Ph.D s registered: Submitted: Awarded: Ph.D. guiding/guided	Registered:3 Submitted: 1 Awarded: 6 Guiding/guided: Nil
5	Funded R&D projects and consultancy works:	Projects are done and its evidences are enclosed Annexure 4.2
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



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

5. Infrastructure and Learning resources

S.No	Criterion	Observations
1	Infrastructure facilities to improve teaching learning process Class rooms: Laboratories: E-class rooms: Seminars: Faculty rooms:	Classrooms:14 Laboratories:3 E-classrooms: 1 Seminar halls: 2 Faculty rooms: 4
2	Internet facility for faculty and students:	Wi-Fi net is enabled
3	Technical and administrative staff support	3 members of Technical and 3members of administrative support is provided. P.Santhosh---Technical N.Chitti Babu-- Technical B.Appala Raju --- Technical Ch. Rajani---- administrative Ch.Shiva---- administrtive B.Ewarrao---- administrtive
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 : 1 1. Certification Course On MS Office
2	Student Publications: Dept. student E-Club:	Student Publications: Nil No. of E-club activities for students: Nil
3	Details for coaching provided for GATE/CRT/any other competitive examinations	External CRT classes are provided, 200 classes for an academic year
4	Industrial visits and Internships	3 Internships and 3 industrial visits are regularly conducted

7. Governance, Leadership and Management

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



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6	Risk evaluation/safety measures	Maintaining fire extinguishers in all the prominent places of college.
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8. Strengths, weakness and areas of Improvement

Strengths

- 1) Good faculty retention
- 2) Students are actively participated in various extracurricular activities
- 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 English speaking capacity of the students.
- 3) Poor socio-economic status of the students.
- 4) Lack of Mathematical Knowledge 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.
- 5) Can Increase more number of Computer Science related Courses



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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)

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Sign. of Academic Auditors

(Dr. B. Avinash Ben)

Assoc. prof, Dept. of Mechanical

(Mrs. K. Syamala)

Assoc. Prof, Dept. of ECE



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ACADEMIC AUDIT REPORT (2021-2022)

DEPARTMENT OF MANAGEMENT STUDIES

ACADEMIC YEAR: 2021-2022

I-III SEMESTERS

DATE OF AUDIT: 21-12-2021

We, Dr. R. Swapna 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	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)



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2. Faculty information and their contribution

S.NO.	CRITERION	OBSERVATIONS
1	Student teacher ratio	19:1 13 faculty members are assigned to teach for 173 students
2	Faculty cadre ratio Prof : Assoc : Asst	Professors: 0 Associate Professor: 2 Assistant Professors:11 Annexure:2.1
3	Faculty qualifications	Doctorates : 1 Ph.D.Pursuing :0
4	Faculty experience and retention	Annexure 2.2 is enclosed by mentioning the (list of faculty, qualifications, total experience,experience at AIET)
5	Faculty contribution in writing: <ul style="list-style-type: none">• Books:• Book chapters:	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">• Training Programs• workshops/seminars:• FDP's :	Workshops/ seminars: Nil FDP-2 Annexure2.4
9	List of conferences/seminars/workshops/FDP's/any exclusive programmes attended for enrichment of teaching-learning process	Conferences: Nil Seminars: Nil Workshops: Nil FDP:8 Annexure2.5



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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 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 PRC guidelines Annexure 3.1 Annexure 3.1
6	<ul style="list-style-type: none"> 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"> Regular visit by the principal CC surveillance 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 Track sheets are maintained to review syllabus coverage. Evaluation of answer papers asper the allotment of marks Yes, the quality of mid-exam question papers is regularly checked by exam cell co- ordinator and the Principal. Interactive way of teaching Regular verification of Attendance registers as well asthe course files by HOD.



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		<ul style="list-style-type: none"> Minutes of meetings are regularly conducted to discuss the matters that are related to Time Tables, academic planning and its facilities provided.
7	Training programmes conducted for students <ul style="list-style-type: none"> Guest Lectures Add-on courses Seminars/workshops Compliance of department academic calendar 	<ul style="list-style-type: none"> 1 Guest lectures is conducted for the students to get aware of some core related subjects, which are presented by eminent resource Persons. 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 and its evidences are enclosed. Annexure 3.3
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"> certificate courses online courses 	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	Based on the results of mid exams, remedial classes are conducted. Based on the results of main exams, backlog classes are conducted.
12	Placements ---(%):	NA
13	Higher studies(%):	Nil
14	Student development activities: <ul style="list-style-type: none"> Co-curricular Extra-curricular activities 	Students are participated in co-curricular extra-curricular activities Annexure 3.5

4. Research consultancy and Extension

S. No	Criterion	Observations
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1	Faculty Publications in journals:Peer review journals: Thomson Reuters Impact factor journals	Total No. Of Peer review journals: Nil No. SCOPUS/SCI Indexed journals :1
2	Publications in conferences: National: International:	National : Nil International: 1
3	Percentage of Faculty contributing inResearch Publications:	15% Percentage of Faculty contributing inResearch Publications
4	Ph.D s registered: Submitted: Awarded: Ph.D. guiding/guided	Ph.D s : 1 registered:1 Submitted:0 Awarded:0 Ph.D. guiding/guided:0
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/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 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



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3	Technical and administrative staff support	3 members of Technical is provided. 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



AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY

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

NAAC "B++" Accredited Institute

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

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

		programs for an academic year 2021-2022
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) Strong department level support for faculty research activities
- 2) Good Research and Development cell
- 3) Students are actively participated in extra circular activities
- 4) More number of student placements
- 5) Supportive working environment among department members

Weakness

1. Very less number of students are coming from other states
2. More number of students are not having mathematical ability
3. There is a need to modernize classrooms with ICT facilities



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Opportunities:

1. By establishing stronger relationships with industry institute interaction.
2. There is a scope for student's new venture development.
3. Interdisciplinary growth of core departments
4. Opportunity to maximize the potentiality of Centers of Excellence

Suggestions for Improvement

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

HOD-MBA

Head of the Department
Master of Business Administration
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Sign. of Academic Auditors

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Professor, Dept. of BS&H

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