



AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY

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

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Cherukupally (Village), Near Tagarapuvalasa Bridge, Vizianagaram (Dist) -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:2022-2023

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Over All Action Taken Report on Department wise Academic and Administrative Audit for Semester-II in the academic year 2022-2023

As per the IQAC decision, Dr. Gandhi Satyanarayana, issued a circular on 2-6-2023 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. B. Avinash Ben Mr. G. Ramu
2	Electronics Communication Engineering	SEM -II Dr. R. Swapna Mr. R. Venkatesh
3	Electrical and Electronics Engineering	SEM -II Dr. A. Bala Krishna Mrs. K. Syamala
4	Mechanical Engineering	SEM-II Dr. A. Balakrishna Mrs. M. Sumathi
5	Civil Engineering	SEM -II Dr. A. Balakrishna Mrs. K. Syamala.
6	Basic Sciences and Humanities	Mr. V. Siva Bhaskara Rao Dr. U. Ramu
7	Master of Business Administration	SEM -II Dr. B. Avinash Ben Mr. R. Venkatesh



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1. CO POs curriculum

1. COs and POs attainment:

- The COs and POs attainment as per the procedure established by observing, R19, R20 regulations.
- As per the observation of the Audit committee, it is suggested to CSE department to regularly conduct academic activities to strengthen PO 6.
- In the same way, suggestions are given to EEE department to strengthen PO2. Thorough Tutorials/Assignments, which are to be given to the students, and extra classes are to be conducted to give a thorough practice in problem solving to motivate students for the participation in problem solving methodologies.
- For the Mechanical department, suggestions like conducting study hours and special training classes have been made to strengthen PO 7.
- For the ECE department, as per the discussion by the Audit committee, it is suggested to strengthen PO7, by conducting special academic sessions. The PO 11 attainment of Civil Engineering is to be improved by conducting special lectures and classes as per the suggestions of the audit committee.
- The PO 3 attainment of the MBA Department is to be improved by organizing lectures and classes by experts as per the suggestions of the audit committee.

2. Stakeholder’s feedback related to curriculum design:

- The audit committee has suggested Maximizing the exposure of CSE students to new technologies based on the feedback of Alumni. The committee has further suggested that students should develop their communication skills to face the competition.
- The audit committee has suggested ECE students to develop their Soft Skills and Technical Skills and their knowledge on latest tools and technologies. It has further suggested the department to organize guest lectures on promoting research culture to meet industry needs.
- The audit committee has suggested that EEE students need value added courses on Automation and that they need more awareness on sustainable development.
- The Mechanical Engineering students need research exposure in core concepts and need to be more aware of advanced technologies according to the audit committee.

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



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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 ECE department I sem, PAC group is not implemented in full pledged manner, in some issues like Activates leading to Quality improvement. so advised to implement in full pledged way and also, we found some lag of Add-on Courses.
- For EEE department, it is observed that some prospectus are not implemented, so suggested to improve Faculty Research and publications and participations in FDPs, seminars, workshops etc.

4. Academic Flexibility:

It is observed that there should be more academic flexibility for R19 final years, and for R20 1st, 2nd and 3rd years. The students should be given enough choice to choose elective subjects. The department has to allot faculty members to teach the electives. The electives should enable the promotion of advanced learning.

II. Faculty information and their contribution:

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

1. Faculty experience and retention:

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

- **CSE department:** Faculty Availability: 40 Requirement: 0
- **ECE department:** Faculty Availability: 24 Requirement: 0
- **Mech department:** Faculty Availability: 26 Requirement: 0
- **EEE department:** Faculty Availability: 17 Requirement: 0
- **CIVIL department:** Faculty Availability :3 Requirement: 0
- **BS&H department:** Faculty Availability: 23 Requirement: 3



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- **MBA department: Faculty Availability: 13 Requirement: 0**

Action taken: It is found that BS& H is lag of faculty of at least 3 members, so action plan is taken to recruit new faculty for next academic year, but the remaining departments have sufficient faculty, IQAC committee suggested to all the departments to enroll in research work for further improvement of higher degree.

2. Faculty contribution in writing:

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

3. Faculty as resource persons in workshops/training activities:

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

- **CSE:** 2 Faculties are initiated as the resource persons for 2 Training programs
- **ECE:** Only one Faculty is initiated as the resource person for Training programs
- **MECH:** 2 Faculties are initiated as the resource persons for 2 Training programs
- **EEE:** Not conducted
- **CIVIL:** No Faculty is initiated as the resource person for Training programs
- **BS&H:** Only one Faculty is initiated as the resource person for Training program
- **MBA:** Not conducted

Action taken: The IQAC committee members are given an advice to EEE 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



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students are monitored in semester wise regularly, based on that, the condonation lists and detention lists are maintained, we found to be satisfactory to improve the results.

- 2. Mechanism and activities for slow learner's improvements:** Slow learners are identified in some departments such as EEE, CSE, Mechanical, so by verifying the documents supported, we advised to conduct extra-remedial and tutorial classes for them.
- 3. Student counseling/mentoring mechanism:** The committee has suggested a student mentorship program for every twenty students, with a faculty mentor guiding them through all their academic and personal challenges for better outcomes.
- 4. Review and evaluation of student projects:** By following the Performa of IQAC committee, best projects are initiated as per PRC guidelines by creating a corpus fund to support research activity, so it is satisfactory to some extent and we suggested the institution to provide best research facilities for further initiation of innovative projects.
- 5. Teaching-learning process:** The Teaching-learning process has to be augmented through new insights and adopting better tools. As per the observation of the IQAC committee, the teaching- learning process has been found to be efficient through lectures, case studies, class room participation, assignments, debates among teams on subjects, ad by using audio visual teaching. It has been found that the best practices of providing coursematerial to the students of all the departments are satisfactory.
- 6. Monitoring of teaching process:** Monitoring process is found to be done by regular visits of the principal, through CC surveillance, and the syllabus coverage is tracked by maintaining track sheets. The evaluation of answer papers, the allotment of marks and the quality of mid-exam question papers is regularly checked by exam cell coordinator and the Principal. So, the report has found it satisfactory.
- 7. Result analysis:** The percentage of IV/II results is found to be low in the departments of EEE,ECE. 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	23	21	2	91.30
EEE	48	27	21	56.25
MECH-A	48	44	4	91.67
MECH-B	45	39	6	86.67



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MECH-C	44	36	8	81.82
ECE-A	52	35	17	67.31
ECE-B	58	42	16	72.41
CSE-A	61	48	13	78.69
CSE-B	56	53	3	94.64
CSE-C	58	56	2	96.55

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

IV. Research consultancy and Extension:

- 1. Promotion of Research:** It is found that the faculty members have no publications in peer review journals. The contribution of faculty members to research publications has been found to be zero in Civil and EEE departments. The institute is ready to contribute in every way to promote research activity among the faculty. So, the faculty members are advised to take up research activity more seriously.
- 2. Funded R&D projects and consultancy works:** It's pleasure to note that the institute takes care of complete patent filing process as per national/international IPR guidelines & policies. R&D cell provides necessary eco-system/conducive- environment with infrastructure/expert support to staff to take-up in R&D consultancy and innovation. So, Staff of all the departments is suggested to be responsible for various R&D projects.
- 3. Incentives for faculty R&D:** It is satisfactory as the institute encourages the faculty, to enhance the research, by providing incentives for peer reviewed publications, consultancy works, writing books and filing up the patents.
- 4. MOU's with industries/R&D/Premier Institutes:** In this academic year, 32 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.



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



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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 employment-oriented skill-based courses. So, in coming academic year, the number of Add-on-courses of all the departments, especially 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. 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: 67% ECE: 68 % EEE: 68.8% CIVIL: 65.21% MECH: 50.69%

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

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

VII. Governance and Leadership and management

- 1. Teaching and non-teaching attended for skill development programs:** It is found that, the institution has effective welfare measures for all the staff members. The institution conducts quality improvement programs for faculty and training programs for non-teaching staff periodically. In order to improve the qualification of EEE, Civil departments, the institution initiated some enhancing programs to update their knowledge and faculty members are given academic leave or special leave to attend FDPS, workshops /Seminars/ Conferences/Industrial training programs organized by premier institutions.



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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 to be taken to improve the surveillance methods.
- 4. Financial support/leaves for qualification/skill up-gradation:** After verifying all the departments, the external and internal provisions such as financial incentives and leave facility are provided for the faculty in a full-pledged way, for upgrading their qualification and pursue research activities. The faculty members are encouraged to pursue research and upgrade their skills by promising better pay and working terms. The seed money for research activity is provided with the collaboration of the affiliated university. It has been suggested to extend the period of required maternity leave.
- 5. Risk evaluation/safety measures:** It is found that, fire extinguishers are maintained in all the prominent places and needed corners of college and still further action was taken for improvement.


Coordinator of IQAC

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Principal

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CIRCULAR

Internal Quality Assurance Cell (IQAC)

ACADEMIC AUDIT (2022-2023)

Date: 06-06-2023

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 2022-2023 as per the team given below and as per the schedule from 20th to 30th June 2023. 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. B. Avinash Ben Mr. G. Ramu	24-6-2023
2	Electronics And Communication Engineering	SEM -II Dr. R. Swapana Mr. R. Venkatesh	22-6-2023
3	Electrical And Electronics Engineering	SEM -II Dr. A. Bala Krishna Mrs. K. Syamala	27-6-2023
4	Mechanical Engineering	SEM -II Dr. A. Balakrishna Mrs. M. Sumathi	28-6-2023
5	Civil Engineering	SEM -II Dr. A. Balakrishna Mrs. K. Syamala.	21-6-2023



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6	Master Of Business Administration	SEM -II Dr. B. Avinash Ben Mr. R. Venkatesh	29-6-2023
7	Basic Science And Humanities	SEM -II Dr. U. Ramu Mr.V. Siva Bhaskara Rao	30-06-2023

Copy to:

The Principal

All the Department

H.O.D's The Members of

IQAC


Principal

PRINCIPAL

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ACADEMIC AUDIT REPORT (2022-2023)

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

ACADEMIC YEAR : 2022-2023

II SEMESTER

DATE OF AUDIT : 24-6-2023

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

1. COs, POs curriculum

S.NO.	CRITERION	OBSERVATIONS
1	COs and POs attainment	CO's and PO's attainment calculated as per the procedure established by PAC and (Annexure 1.1) is enclosed
2	Stakeholders feedback related to curriculum design	Graduates exit survey; Alumni survey and employer survey, teachers survey are conducted and presented as consolidated as per format. (Annexure 1.2)
3	Action taken on Minutes of Meeting	Incorporated changes as per the suggestions by DAC,PAC and it's Minutes of meeting, Curriculum changes and it's evidences are enclosed (Annexure 1.3)
4	Percentage of Lab component	21.6%(13.5/62.5) for R20-CSE,CSD,CSM 42.8%(9/21) for R19 M. Tech 44.4%(8/18)-R19 -Two additional experiments are conducted in all labs (Annexure 1.4)
5	Evidence of academic flexibility	1P.E+1 O.E 27.9%(6/21) for R20 -CSE,CSM,CSD



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		42.8(9/21) for R19 M.Tech 2 core electives 86.3% (19/22)II/I-R19 76.9% (15/19.5)I/I -R20 (Annexure 1.5)
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2. Faculty information and their contribution

S.NO.	CRITERION	OBSERVATIONS
1	Student teacher ratio	19:1 40 faculty members are assigned to teach for 823 students
2	Faculty cadre ratio Prof : Assoc : Asst	Professors: 3 Associate Professor: 5 Assistant Professors: 32 (Annexure:2.1)
3	Faculty qualifications	Doctorates : 3 Ph.D. Pursuing :3 M. Tech: 34
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-9
6	Faculty in Professional bodies Faculty contributions	4 faculty members are enrolled in Professional bodies and its evidence is enclosed in (Annexure 2.3)
7	Faculty as resource persons in workshops/training activities	Training and Programs:2
8	International/national level events organized -- Training Programs --workshops/seminars: --FDP's :	FDP's : 2 Training Programs : 1 (Annexure 2.4)



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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-12 (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 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 (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



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	---Minutes of class committee meetings and action taken	registers as well as the course files by HOD. <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"> 2 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:3 Programs are 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	Scope for self learning ---certificate courses ---online courses	Faculty members were very instrumental in designing and developing 3 Add-on and Certificate course programs.
11	Result analysis and conduct of remedial classes for students with backlogs	<ul style="list-style-type: none"> 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:	(67%) out of 180students , 121 candidates are selected in different 24companies (Annexure 3.4)
13	Higher studies(%): --Institutions:	1 student is progressed for higher studies. Sivala Yaswanth joined for MS
14	Student development activities: ---Co-curricular ---Extra-curricular activities	Students are participated both in co-curricular and extra-curricular activities (Annexure 3.5)



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4. Research consultancy and Extension

1	Faculty Publications in journals: Peer review journals: Thomson Reuters Impact factor journals	Total No. Of Peer review journals: Nil No. SCOPUS/SCI Indexed journals :Nil
2	Publications in conferences: National: International:	International-4
3	Percentage of Faculty contributing in Research Publications:	7 Percentage of Faculty contributing in Research Publications:
4	Ph. D s registered: Submitted: Awarded: Ph.D. guiding/guided	Registered:--3 Submitted: --Nil Awarded: 3 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:	Recognized as JNTU-GV Research center of excellence for the academic year 2022-2023
9	Skill development center established	YES, Skill development center established in collaboration with APSSDC

5. Infrastructure and Learning resources

S. No	Criterion	Observations
1	Infrastructure facilities to improve teaching learning process Class rooms: Laboratories: E-class rooms: Seminars: Faculty rooms:	Classrooms: 16 Laboratories: 5 E-classrooms: 1 Seminar halls: 2 Faculty rooms: 4



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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. P. Santhosh---Technical Ch. Shiva---- Technical K. Thapulayya— Technical T. Srinu --- administrative support
4	Department budget: Sanctioned amount: Amount spent: New equipment added: Maintenance of equipment and consumable registers in labs	
5	Details of computing facilities and software	Total number of computers: 330 List of software procured: Orcade 10g, Rational Rose, Turbo, C ⁺⁺ , 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	3 Add on courses 1.SQLITE Data base using Node.JS PEGEA-UAP 2.A Complete guide to JAVA spring using MVC 3.PEGA-UAP
2	Student Publications: Dept. student E-Club:	Student Publications: Nil No. of E-club activities for students: 2 1.IOT 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



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4	Industrial visits and Internships	CSE(III year) – 181 CSE(IV year) – 134 CSM(III year) – 60 CSD(III year) – 36 are participated for Internships and 1 industrial visit
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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 2022-2023
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) 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



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- 5) Faculty contribute effectively to paper publications
- 6) In order to explore their ideas and showcase their skills, student clubs are developed and events are organized.

Weakness

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

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
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Bhogapuram (M), Vizianagaram (D)-531162

COORDINATOR, IQAC

AVANTHI INSTITUTE OF ENGG. & TECH.
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Sign. of Academic Auditors

Dr. B. Avinash Ben
Professor, Dept. of EEE

Mr. G. Ramu
Asst. Professor, Dept. of ME



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ACADEMIC AUDIT REPORT (2022-2023)

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

ACADEMIC YEAR: 2022-2023

II SEMESTER (JAN - MAY)

Date of Audit: 27-6-2023

We, Dr. A. Bala Krishna and Mrs. K. Syamala 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	21.6%(13/62.5) in R20 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	27.90%(6/21.5) in R20(O.E-1+P.E-1) 35.29%(6/17) in R19(O.E-1+P.E-1) M.TECH



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

S.NO.	CRITERION	OBSERVATIONS
1	Student teacher ratio	19:1 17 Faculties are assigned for students 146
2	Faculty cadre ratio Prof : Assoc : Asst	Professors: 1 Associate Professor: 3 Assistant Professors: 13 Annexure:2.1
3	Faculty qualifications	Doctorates : 2 Ph.D. Pursuing :1 M.Tech: 14
4	Faculty experience and retention	Annexure 2.2 is enclosed by mentioning the (list of faculty, qualifications, total experience, experience at AIET)
5	Faculty contribution in writing: <ul style="list-style-type: none"> • 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 Programs • workshops/seminars: • FDP's : 	FDP's : Nil
9	List of conferences/ seminars/workshops/ FDP's/ any exclusive programmes attended for enrichment of teaching-learning process	Conferences: NIL Seminars: NIL Workshops: NIL FDP's:5



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3. Teaching learning process and evaluation

S.NO.	CRITERION	OBSERVATIONS
1	Student performances Attendance Exams	Lists of students Detention and condonation are maintained.
2	Mechanism and activities for slow learners improvements	Slow learners are identified based on performance in Mid-exams. Conducted extra classes for slow learners
3	Student counselling/mentoring mechanism	20 students are allotted for each faculty member for better improvement of their academic results.
4	Initiatives taken for innovative projects	Nil
5	Review and evaluation of student projects: ---Best Projects	5 Best projects are carried as per PRC guidelines Annexure 3.1
6	Monitoring of teaching-learning process <ul style="list-style-type: none"> • 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"> • 2 Guest lectures, 12 seminars, 2 workshops are conducted for the students to get aware of somecore related subjects, which are presented by eminent resource Persons. • Add-on Courses: 2 Programs are conducted for students: Annexure 3.2



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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	<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
12	Placements -- (%): Industries/organizations:	(68.88%)out of 45students , 31 candidates are selected in different 5 companies Annexure 3.5
13	Higher studies (%): --Institutions:	Nil
14	Student development activities: ---Co-curricular ---Extra-curricular activities	Students are participated both in co-curricular and extra-curricular activities Annexure 3.5

4. Research consultancy and Extension

S.NO.	CRITERION	OBSERVATIONS
1	Faculty Publications in journals: Peer review journals: Thomson Reuters Impact factor journals	Total No. Of Peer review journals: Nil No. SCOPUS/SCI Indexed journals : Nil Nil
2	Publications in conferences: National: International:	Nil
3	Percentage of Faculty contributing in Research Publications:	58% of faculty are contributed for research publications
4	Ph.D s registered: Submitted: Awarded: Ph.D. guiding/guided	Registered:--2 Submitted: --Nil Awarded: 2 Guiding/guided: Nil
5	Funded R&D projects and consultancy works:	Projects are done and its evidences are enclosed Annexure 4.1
6	Incentives for faculty R&D	Incentives for faculty Research publications as per HR policy
7	MOU's with industries/R&D/Premier	MOU's with industries and R&D



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	Institutes	annexure:4.2
8	Research centres of excellence established:	Recognized as JNTU-GV Research center of excellence for the academic year 2022-2023
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	3 members of Technical and 2 members of Lab Assistant support is provided. P. Santhosh---Technical Ch. Shiva---- Technical K. Thapalayya-- administrative support 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	2 Add-on courses are conducted 1. Electrical Vehicle Technology



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		2. Introduction of Engineering and Design
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	Industrial visit :1 Internships: EEE (IIIYEAR)- 48, EEE (IVYEAR)-42 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 2022-2023
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) More number of student placements
- 2) Research and Development cell
- 3) Supportive working environment among department members



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Weakness

- 1) Lack of NRI student attraction
- 2) Poor English speaking capacity of the students.
- 3) Less number of Ph.D Holders
- 4) Low attendance to FDP's
- 5) Poor socio-economic status of the students.
- 6) There is a need to modernise classrooms with ICT facilities

Opportunities:

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

Suggestions for Improvement

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

HOD EEE

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

Sign. of Academic Auditors

(Dr.A.Bala Krishna)
Professor Dept. of CSE

(Mrs.K.Syamala)
Assoc Professor Dept. of ECE



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ACADEMIC AUDIT REPORT (2022-2023)

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

AY: 2022-2023

II SEM

DATE OF AUDIT: 22-6-2023

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

1. COs, POs curriculum

S.NO.	CRITERION	OBSERVATIONS
1	COs and POs attainment ,	CO's and PO's attainment calculated as per the procedure established by PAC and (Annexure 1.1) is enclosed
2	Stakeholders feedback related to curriculum design	Graduates exit survey; Alumni survey and employer survey, teachers survey are conducted and presented as consolidated as per format. (Annexure 1.2)
3	Action taken on Minutes of Meeting	Incorporated changes as per the suggestions by DAC, PAC and its Minutes of meeting, Curriculum changes and its evidences are enclosed (Annexure 1.3)
4	Percentage of Lab component	21..6%(13.5/62.5) -R20 M.Tech 22.2%(4/18)-R19 -Two additional experiments are conducted in all labs (Annexure 1.4)
5	Evidence of academic flexibility	1P.E+1O.E 27.9%(6/21.5)-R20 1P.E+1 O.E 40%(6/15)-R19 M.Tech



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		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 24 faculty members are assigned to teach for 271 students
2	Faculty cadre ratio Prof : Assoc : Asst	Professors: 0 Associate Professor: 4 Assistant Professors: 20 Annexure:2.1
3	Faculty qualifications	Doctorates: 0 Ph.D. Pursuing :4 M.Tech: 20
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:	Books- 5
6	Faculty in Professional bodies Faculty contributions	1 Faculty member is enrolled for 2 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:1 Annexure 2.4
9	List of conferences/seminars/workshops/FDP's/any exclusive programmes attended for enrichment of teaching-learning	Work Shops-Nil FDP-14 Conferences-Nil Annexure 2.5



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	process
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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	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 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' <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-coordinator 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



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		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"> • 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 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 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. Annexure 3.3
12	Placements (%): Industries/organizations:	(68%) out of 110students , 75 candidates are selected in different 15 companies Annexure 3.4
13	Higher studies(%): --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 3.5



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4. Research consultancy and Extension

1	Faculty Publications in journals: Peer review journals: Thomson Reuters Impact factor journals	Total No. Of Peer review journals: Nil No. SCOPUS/SCI Indexed journals : Nil
2	Publications in conferences: National: International:	Nil
3	Percentage of Faculty contributing in Research Publications:	Nil
4	Ph.D. s registered: Submitted: Awarded: Ph.D. guiding/guided	Registered:4 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 Annexure:4.2
8	Research centers of excellence established:	Recognized as JNTU-GV Research center of excellence for the academic year 2022-2023
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



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

6. Student information support and progression

S.NO	Criterion	Observations
1	Add-on courses	Add-on courses: 1 Machine Learning and Data science by Python
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



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4	Industrial visits and Internships	IV ECE-52 III ECE-93 are participated for Internships and 1 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 2022-2023
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) More number of student placements
- 3) Strong department level support for faculty research activities
- 4) Supportive working environment among department members
- 5) Quality lab supplies



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6) Started an incubation center (BSNL) to encourage academics and students to conduct real-time application projects and engage in research.

Weakness

1. Lack of Ph.D Holders
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 Centers of Excellence.

Suggestions for Improvement

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

HOD-ECE

Head of the Department
Electronics & Communication Engineering
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VIZIANAGARAM (DIST)

Sign. of Academic Auditors

(Dr .R.Swapna)

Professor, Dept.of BS&H

(Mr.R.Venkatesh)

Asst.Professor, Dept. of Civil



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ACADEMIC AUDIT REPORT (2022-2023)

Dept. of Mechanical Engineering

ACADEMIC YEAR : 2022-2023-II SEMESTER **II SEMESTER**

DATE OF AUDIT : 28-6-2023

We, Dr. A. Bala Krishna 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	28% (17.5/62.5) R20 M.TECH 22.22%(4/18) R19 -Two additional experiments are conducted in all labs (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 26 faculty members are assigned to teach for 356 students
2	Faculty cadre ratio Prof : Assoc : Asst	Professors: 2 Associate Professor: 6 Assistant Professors: 18 Annexure:2.1
3	Faculty qualifications	Doctorates : 3 Ph.D.Pursuing :11 M.Tech: 12
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	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 : 2 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 Training Program:4 FDP's: Nil 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 HOD. • Minutes of meetings are regularly conducted to discuss the matters that are related to Time Tables, academic



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		planning and its facilities provided.
7	Training programmes conducted for students ---Guest Lectures ---Add-on courses ---Seminars/workshops ---Compliance of department academic calendar	<ul style="list-style-type: none"> • 5 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 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	Scope for self learning ---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"> • 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:	(50.69%) students , 73 candidates are selected in different 11 companies Annexure 3.4
13	Higher studies(%): --Institutions:	Nil
14	Student development activities: ---Co-curricular ---Extra-curricular activities	Students are participated both in co-curricular and extra-curricular activities Annexure 3.5

4. Research consultancy and Extension

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 conference: 1
3	Percentage of Faculty contributing in Research Publications:	(26.9%) 7 faculties contributing in Research Publications



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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:	Recognized as JNTU-GV Research center of excellence for the academic year 2022-2023
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: Seminars: Faculty rooms:	Classrooms:7 Laboratories:12 E-classrooms:1 Seminar halls:1 Faculty rooms:2
2	Internet facility for faculty and students:	Wi-Fi net is enabled
3	Technical and administrative staff support	6 members of Technical and 1 member of administrative support is provided. N. Suresh---Technical K. Appala Narayana---Technical P. Kamesh---Technical M. P. Divakar Das---Technical D. Srinivas---Technical P. Santhosh---Technical P. Ramu---Attender



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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 for students purpose:60 List of software procured: 1. ANSYS 15.U 2. CATIA V5 R13 3. MAT LAB 4. NX10
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.Cyogenic
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 2022-2023



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

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



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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 Centres of Excellence.

Challenges

- 1) To increase human resource i.e. teaching and non-teaching employees.
- 2) To initiate need-based and interdisciplinary courses.
- 3) To strengthen the institution's effort in career counseling and placement of students.
- 4) To organize more cultural and sports activities for inculcating cultural and sports values into students

B. Akshay
HOD-MECH

HOD

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

Sign. Of Academic Auditors

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

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



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ACADEMIC AUDIT REPORT (2022-2023)

DEPARTMENT OF CIVIL ENGINEERING

AY: 2022-2023

II SEM

DATE OF AUDIT: 21-06-2023

We, Dr. A. Bala Krishna 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	Nil
5	Evidence of academic flexibility	2 Core electives 35.29% (6/17) IV/II- R19 (Annexure 1.4)

2. Faculty information and their contribution

S.NO.	CRITERION	OBSERVATIONS
1	Student teacher ratio	19:1 3 faculty members are assigned to teach for 23 students
2	Faculty cadre ratio Prof: Assoc: Asst	Professors: Nil Associate Professor: Nil Assistant Professors: 3



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		(Annexure:2.1)
3	Faculty qualifications	Doctorates: Nil Ph.D. Pursuing: Nil M. Tech: 3
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	Training and Programs: Nil
8	International/national level events organized <ul style="list-style-type: none"> • Training Programs • workshops/seminars: • FDP's: 	FDP's: 1 (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: 3 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
3	Student counselling/mentoring mechanism	20 students are allotted for each faculty member for better improvement of their academic results.



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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"> 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 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



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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 1 Add-on and Certificate course program.
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:	(65.21%) students, 15 candidates are selected in different 3 companies (Annexure 3.4)
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 3.5)

4. Research consultancy and Extension

S.NO.	CRITERION	OBSERVATIONS
1	Faculty Publications in journals: Peer review journals: Thomson Reuters Impact factor journals	Total No. Of Peer review journals: Nil No. SCOPUS/SCI Indexed journals: Nil
2	Publications in conferences: National: International:	Nil
3	Percentage of Faculty contributing in Research Publications:	Nil
4	Ph.D. s registered: Submitted: Awarded: Ph.D. guiding/guided	Registered: --1 Submitted: --Nil Awarded: Nil Guiding/guided: Nil
5	Funded R&D projects and consultancy works:	Nil
6	Incentives for faculty R&D	Incentives for faculty Research publications as per HR policy



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7	MOU's with industries/R&D/Premier Institutes	MOU's with industries and R&D (Annexure:4.1)
8	Research centers of excellence established:	Recognized as JNTU-GV Research center of excellence for the academic year 2022-2023
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:1 Laboratories:0 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. Thapulayya- administrative support B. Bhaskar-administrative support
4	Department budget: Sanctioned amount: Amount spent: New equipment added: Maintenance of equipment and consumable registers in labs	
5	Details of computing facilities and software	Total number of computers: 60 List of software procured: 1. Auto CAD 2. STAAD Pro 3. Arc GIS
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	Nil
2	Student Publications: Dept. student E-Club:	Student Publications: Nil No. of E-club activities for students: 2 1. Builders 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	IV Year Civil 23 students are Participated in Internships Conducted and no 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.



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

Strengths

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

Weakness

1. Lack of NRI student attraction
2. Poor English-speaking capacity of the students.
3. Poor socio-economic status of the students.
4. There is a need to modernize classrooms with ICT facilities
5. Lowering admissions in the department, which points to the department might cease operations

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

P. Venkatesh
HOD-CIVIL

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

Sign. of Academic Auditors

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

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



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Academic and Administration Audit Report: 2022-2023

DEPARTMENT OF BASIC SCIENCES AND HUMANITIES

ACADEMIC YEAR: 2022-2023

SEM-II

DATE OF AUDIT: 11-08-2022

We, Mr. V. Siva Bhaskara Rao and Dr. U. Ramu 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 23 Faculty members are assigned to teach for 519 students



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Academic and Administration Audit Report: 2022-2023

DEPARTMENT OF BASIC SCIENCES AND HUMANITIES

ACADEMIC YEAR: 2022-2023

SEM-I

DATE OF AUDIT: 20-12-2022

We, Mr. V. Siva Bhaskara Rao and Dr. U. Ramu 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 23 Faculty members are assigned to teach for 519 students



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2	Faculty cadre ratio Prof : Asso : Asst	Professors: 0 Associate Professor: 4 Assistant Professors: 19 Annexure:2.1
3	Faculty qualifications	Doctorates : 5 Ph.D.Pursuing :4 MSc: 14
4	Faculty experience and retention	Annexure 2.2 is enclosed by mentioning the (list of faculty, qualifications, total experience, experience at AIET)
5	Faculty contribution in writing: --Books: --Book chapters:	Nil
6	Faculty in Professional bodies Faculty contributions	4 Faculty members are enrolled in Professional bodies and its evidence is Enclosed Annexure2.2
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 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's :13 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	Slow learners are identified based on



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	improvements	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 	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:2 Programs are conducted for students Annexure 3.1
8	MOU's with industries for internship	Not applicable
9	Students feedback and follow up action	Needed action is taken up by students feedback and its evidence is enclosed Annexure



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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 Mid exam to II mid exam • Extra classes are conducted for backlog students
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 3.2

4. Research consultancy and Extension

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



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		publications as per HR policy.
7	MOU's with industries/R&D/Premier Institutes	N/A
8	Research center of excellence established:	Recognized as JNTUK Research center of excellence for the academic year 2020-2021
9	Skill development center established	YES, Skill development center established in collaboration with APSSDC

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---- administrtrive A.Ewarrao---- administrative
4	Department budget: Sanctioned amount: Amount spent: New equipment added: Maintenance of equipment and consumable registers in labs	



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5	Details of computing facilities and software	Total number of computers:120 List of software procured:
6	Dept, Newsletters and Magazine	Yes
7	Department level library resources	Yes

6. Student information support and progression

S.NO	Criterion	Observations
1	Add-on courses	Add-on courses : 2 1. Introduction of Engineering and Design 2. Introduction of Discrete Mathematics for Computer Science
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 2022-2023
2	MOUs with premier institutions for knowledge exchange	N/A
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 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 modernise classrooms with ICT facilities

Opportunities:

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



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Suggestions for Improvement

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

HOD BS&H

Head of the Department

Basic Sciences and Humanities (BS&H)

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Vizianagaram (M), Vizianagaram (D)-531162

Sign. of Academic Auditors

Dr.U.Ramu

Assoc Professor, Dept. of MBA

Mr.V.Siva Bhaskar rao

HOD, Dept of ECE



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ACADEMIC AUDIT REPORT (2022-2023)

DEPARTMENT OF MANAGEMENT STUDIES

ACADEMIC YEAR: 2022-2023

II-IV SEMESTERS

DATE OF AUDIT: 29-6-2023

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

1. COs, POs curriculum

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



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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 164 students
2	Faculty cadre ratio Prof : Assoc : Asst :	Professors: 0 Associate Professor: 3 Assistant Professors: 10 (Annexure:2.1)
3	Faculty qualifications	Doctorates : 2 Ph.D. Pursuing : 1
4	Faculty experience and retention	(Annexure 2.2) is enclosed by mentioning the (list of faculty, qualifications, total experience, experience at AIET)
5	Faculty contribution in writing: • Books: • Book chapters:	Books-1
6	Faculty in Professional bodies Faculty contributions	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-4 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:9 Annexure2.4

3. Teaching learning process and evaluation

S.NO.	CRITERION	OBSERVATIONS
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1	<p>Student performances</p> <p>Attendance</p> <p>Exams</p>	List of students Detention and condonation are maintained.
2	Mechanism and activities for slow learners improvements	<p>Slow learners are identified based on performance in Mid-exams.</p> <p>Conducted extra classes for slow learners</p>
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	<p>Review and evaluation of student projects:</p> <ul style="list-style-type: none"> • 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 classrooms as per schedule • Tracking of syllabus coverage • Uploading of Lecture notes, questionpapers 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.



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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"> • 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
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 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	<p>Based on the results of mid exams, remedial classes are conducted .</p> <p>Based on the results of main exams, backlog classes are conducted.</p>
12	Placements ---(%):	45% of students are selected out of 59 (Annexure 3.3)
13	Higher studies(%):	Higher Studies: Nil
14	<p>Student development activities:</p> <ul style="list-style-type: none"> • Co-curricular • Extra-curricular activities 	Students are participated in co-curricular extra-curricular activities (Annexure 3.4)

4. Research consultancy and Extension

S.NO.	CRITERION	OBSERVATIONS
1	<p>Faculty Publications in journals:</p> <p>Peer review journals:</p> <p>Thomson Reuters Impact factor journals</p>	<p>Total No. Of Peer review journals:</p> <p>Nil</p> <p>No. SCOPUS/SCI Indexed journals:</p> <p>Nil</p>
2	Publications in conferences:	Nil



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	National: International:	
3	Percentage of Faculty contributing in Research Publications:	Nil
4	Ph.D s : registered: Submitted: Awarded: Ph.D. guiding/guided	Ph.D s : 2 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: 4.1
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



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		K. Thapalayya-- 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
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. Strong ethics 2. Business Sustainability
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:1 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 2022-2023



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

8. Strengths, weakness and areas of Improvement

Strengths

- 1) Student active participation in extracurricular activities like Business clubs, GDs, Role plays etc.
- 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. Less number of students are approaching for Research
3. Poor socio-economic status of the students.



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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-MBA

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

Dr. B. Avinash Ben
Professor, Dept. of Mech

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



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Over All Action Taken Report on Department wise Academic and Administrative Audit for Semester-I in the academic year 2022-2023

As per the IQAC decision, Dr. Gandhi Satyanarayana, issued a circular on 9-12-2022 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 -I Dr. H. MallessamDora Mr. V. Siva Bhaskara Rao
2	Electronics Communication Engineering	SEM -I Dr. U. Ramu Dr. G. Chinna Rao
3	Electrical and Electronics Engineering	SEM -I Dr. G. Chinna Rao MR.V. Siva Bhaskara Rao
4	Mechanical Engineering	SEM -I Dr. H. Mallessam Dora Mrs. K. Syamala
5	Civil Engineering	SEM-1 Dr. A. Balakrishna Dr. R. Swapna
6	Basic Sciences and Humanities	Mr. V. Siva Bhaskara Rao Dr. U. Ramu
7	Master of Business Administration	SEM -I Dr. R. Swapna Mr. G. Ramu

I. CO POs curriculum

1. COs and POs attainment:

- The COs and POs attainment as per the procedure established by observing, R19, R20 regulations.
- As per the observation of the Audit committee, it is suggested to CSE department to regularly conduct academic activities to strengthen PO 6.
- In the same way, suggestions are given to EEE department to strengthen PO2. Thorough Tutorials/Assignments, which are to be given to the students, and extra classes are to be conducted to give a thorough practice in problem solving to motivate students for the



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participation in problem solving methodologies.

- For the Mechanical department, suggestions like conducting study hours and special training classes have been made to strengthen PO 7.
- For the ECE department, as per the discussion by the Audit committee, it is suggested to strengthen PO7, by conducting special academic sessions. The PO 11 attainment of Civil Engineering is to be improved by conducting special lectures and classes as per the suggestions of the audit committee.
- The PO 3 attainment of the MBA Department is to be improved by organizing lectures and classes by experts as per the suggestions of the audit committee.

2. Stakeholder's feedback related to curriculum design:

- The audit committee has suggested Maximizing the exposure of CSE students to new technologies based on the feedback of Alumni. The committee has further suggested that students should develop their communication skills to face the competition.
- The audit committee has suggested ECE students to develop their Soft Skills and Technical Skills and their knowledge on latest tools and technologies. It has further suggested the department to organize guest lectures on promoting research culture to meet industry needs.
- The audit committee has suggested that EEE students need value added courses on Automation and that they need more awareness on sustainable development.
- The Mechanical Engineering students need research exposure in core concepts and need to be more aware of advanced technologies according to the audit committee.

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

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 ECE department I sem, PAC group is not implemented in full pledged manner, in some issues like Activates leading to Quality improvement. so advised to implement in full pledged way and also, we found some lag of Add-on Courses.
- For EEE department, it is observed that some prospectus are not implemented, so suggested to



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improve Faculty Research and publications and participations in FDPs, seminars, workshops etc.

4. Academic Flexibility:

It is observed that there should be more academic flexibility for R19 final years, and for R20 1st 2nd and 3rd years. The students should be given enough choice to choose elective subjects. The department has to allot faculty members to teach the electives. The electives should enable the promotion of advanced learning.

II. Faculty information and their contribution:

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

1. Faculty experience and retention:

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

- **CSE department: Faculty Availability: 40 Requirement: 0**
- **ECE department: Faculty Availability: 24 Requirement: 0**
- **Mech department: Faculty Availability: 26 Requirement: 0**
- **EEE department: Faculty Availability: 17 Requirement: 0**
- **CIVIL department: Faculty Availability :3 Requirement: 0**
- **BS&H department: Faculty Availability: 23 Requirement: 3**
- **MBA department: Faculty Availability: 13 Requirement: 0**

Action taken: It is found that BS& H is lag of faculty of at least 3 members, so action plan is taken to recruit new faculty for next academic year, but the remaining departments have sufficient faculty, IQAC committee suggested to all the departments to enroll in research work for further improvement of higher degree.

2. Faculty contribution in writing:

The committee has found that the faculty members of Civil, MBA, Basic Sciences, EEE



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departments are unpublished and lack research exposure. So, the committee has made a suggestion that the faculty members have to actively pursue research work and publish books. The research work and publishing of books could enhance the knowledge and exposure of the faculty members, as per the opinion of the committee.

3. Faculty as resource persons in workshops/training activities:

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

- **CSE:** 2 Faculties are initiated as the resource persons for 2 Training programs
- **ECE:** Only one Faculty is initiated as the resource person for Training programs
- **MECH:** 2 Faculties are initiated as the resource persons for 2 Training programs
- **EEE:** Not conducted
- **CIVIL:** No Faculty is initiated as the resource person for Training programs
- **BS&H:** Only one Faculty is initiated as the resource person for Training program
- **MBA:** Not conducted

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

III. Teaching learning process and evaluation:

1. Student performances, Attendance, Exams:

The performances as well as attendance of students are monitored in semester wise regularly, based on that, the condonation lists and detention lists are maintained, we found to be satisfactory to improve the results.

2. Mechanism and activities for slow learner's improvements:

Slow learners are identified in some departments such as EEE, CSE, Mechanical, so by verifying the documents supported, we advised to conduct extra-remedial and tutorial classes



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for them.

3. Student counseling/mentoring mechanism:

The committee has suggested a student mentorship program for every twenty students, with a faculty mentor guiding them through all their academic and personal challenges for better outcomes.

4. Review and evaluation of student projects:

By following the Performa of IQAC committee, best projects are initiated as per PRC guidelines by creating a corpus fund to support research activity, so it is satisfactory to some extent and we suggested the institution to provide best research facilities for further initiation of innovative projects.

5. Teaching-learning process:

The Teaching-learning process has to be augmented through new insights and adopting better tools. As per the observation of the IQAC committee, the teaching- learning process has been found to be efficient through lectures, case studies, class room participation, assignments, debates among teams on subjects, ad by using audio visual teaching. It has been found that the best practices of providing coursematerial to the students of all the departments are satisfactory.

6. Monitoring of teaching process:

Monitoring process is found to be done by regular visits of the principal, through CC surveillance, and the syllabus coverage is tracked by maintaining tracksheets. The evaluation of answer papers, the allotment of marks and the quality of mid-exam question papers is regularly checked by exam cell coordinator and the Principal. So, the report has found it satisfactory.

7. Result analysis:

The percentage of IV/I results is found to be low in the departments of CIVIL, MECH. So further step is advised in the form of conducting remedial classes to improve the results for next academic semester.



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BRANCH	STRENGTH	PASS	FAIL	PASS %
CIV	23	18	5	78.26
EEE	48	14	34	29.17
MECH-A	49	29	20	59.18
MECH-B	48	20	28	41.67
MECH-C	44	26	18	59.09
ECE-A	52	26	26	50.00
ECE-B	58	25	33	43.10
CSE-A	60	34	26	56.67
CSE-B	55	39	16	70.91
CSE-C	58	36	22	62.07

8. MOU's with industries for internship:

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

9. Student's feedback and follow up action:

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

IV. Research consultancy and Extension:

1. Promotion of Research:

It is found that the faculty members have no publications in peer review journals. The contribution of faculty members to research publications has been found to be zero in Civil and EEE departments. The institute is ready to contribute in every way to promote research activity among the faculty. So, the faculty members are advised to take up research activity more seriously.

2. Funded R&D projects and consultancy works:

It's pleasure to note that the institute takes care of complete patent filing process as per national/international IPR guidelines & policies. R&D cell provides necessary ecosystem/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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question papers daily circulars. Further action is taken for the well-equipped internet lab, providing high speed of connectivity the student can surf the net together unlimited information.

3. Technical and administrative staff support:

Technical and Administrative staff works in office support positions to perform a variety of office tasks. The institution proposed to appoint some more technical staff and lab assistants in ECE, EEE departments for smooth handling of office tasks.

4. Department budget:

For budget and planning purposes, academic department activity typically occurs in their concerned department for managing the funds. So, it is flexible to enrich the needed sources.

5. Details of computing facilities and software:

It is proposed to provide open source computing platform for the students, staff and faculty in the departments of EEE, 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 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. 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.



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VII. Governance and Leadership and management

1. Teaching and non-teaching attended for skill development programs:

It is found that, the institution has effective welfare measures for all the staff members. The institution conducts quality improvement programs for faculty and training programs for non-teaching staff periodically. In order to improve the qualification of EEE, Civil departments, the institution initiated some enhancing programs to update their knowledge and faculty members are given academic leave or special leave to attend FDPS, workshops /Seminars/ Conferences/Industrial training programs organized by premier institutions.

2. Display of vision, mission and quality objectives at prominent places:

To impart quality education to the students coming from rural areas, some suggestions are given to enhance the academic as well as extension activities, curricular and co-curricular activities are conducted.

3. Staff and students attendance monitoring system:

Regular follow up of biometric as well as Attendance registers are maintained and found to have regular monitoring systems, further action is to be taken to improve the surveillance methods.

4. Financial support/leaves for qualification/skill up-gradation:

After verifying all the departments, the external and internal provisions such as financial incentives and leave facility are provided for the faculty in a full-pledged way, for upgrading their qualification and pursue research activities. The faculty members are encouraged to pursue research and upgrade their skills by promising better pay and working terms. The seed money for research activity is provided with the collaboration of the affiliated university. It has been suggested to extend the period of required maternity leave.

5. Risk evaluation/safety measures:

It is found that, fire extinguishers are maintained in all the prominent places and needed corners of college and still further action was taken for improvement.

Coordinator of IQAC
COORDINATOR, IQAC

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Principal
PRINCIPAL
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Bhogapuram (M),
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CIRCULAR

Internal Quality Assurance Cell (IQAC)

ACADEMIC AUDIT (2022-2023)

Date: 09-12-2022

From

The coordinator of IQAC

Avanthi Institute of Engineering and
Technology

Cherukupally, Near Tagarapuvalasa Bridge

Vizianagaram-531162

To

The Principal

Avanthi Institute of Engineering and
Technology

Cherukupally, Near Tagarapuvalasa Bridge

Vizianagaram-531162

Sir/Madam

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

The members are informed to conduct the academic audit report for the academic year 2022-2023 as per the team given below and as per the schedule from 20th to 31th Dec2022. 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.H.Mallesam Dora Mr.V.SivaBhaskaraRao	27-12-2022
2	Electronics And communication engineering	SEM -I Dr.U.Ramu Dr.G.ChinnaRao	23-12-2022
3	Electrical And electronics engineering	SEM -I Dr.G.ChinnaRao Mr.V.SivaBhaskaraRao	28-12-2022



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4	Mechanical engineering	SEM –I Dr. H.MallessamDora Mrs.K.Syamala	30-12-2022
5	Civil engineering	SEM –I Dr.A.Balakrishna Dr.R.Swapna	21-12-2022
6	Basic sciences and humanities	Mr.V.SivaBhaskaraRao Dr.U.Ramu	30-6-2023
7	Master of business administration	SEM–I Dr.R.Swapana Mr. G.Ramu	22-12-2022

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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Bhogapuram (M),
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IQAC Coordinator

COORDINATOR, IQAC

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ACADEMIC AUDIT REPORT (2022-2023)

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

ACADEMIC YEAR : 2022-2023 - I SEMESTER

DATE OF AUDIT : 27-12-2022

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

1.CO's, PO's curriculum

S.NO.	CRITERION	OBSERVATIONS
1	COs and POs attainment	CO's and PO's attainment calculated as per the procedure established by PAC and (Annexure 1.1) is enclosed
2	Stakeholders feedback related to curriculum design	Graduates exit survey; Alumni survey and employer survey, teachers survey are conducted and presented as consolidated as per format. (Annexure 1.2)
3	Action taken on Minutes of Meeting	Incorporated changes as per the suggestions by DAC,PAC and it's Minutes of meeting, Curriculum changes and it's evidences are enclosed (Annexure 1.3)
4	Percentage of Lab component	19.2%(12/62.5) in R20- CSE,CSD,CSM 4.7%(1/21) in R19 M.Tech 44.4%(8/18)-R19 -Two additional experiments are conducted in all labs (Annexure 1.4)
5	Evidence of academic flexibility	27.9%(13.5/62.5) for R20-CSE,CSD,CSM 42.8%(9/21) for R19 M.Tech 2 core electives 86.3% (19/22)II/I-R19 76.9% (15/19.5)I/I -R20



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	(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 823 students
2	Faculty cadre ratio Prof : Assoc : Asst	Professors: 3 Associate Professor: 5 Assistant Professors: 32 (Annexure:2.1)
3	Faculty qualifications	Doctorates : 3 Ph.D. Pursuing :3 M.Tech: 34
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-9
6	Faculty in Professional bodies Faculty contributions	4 faculty members are enrolled in Professional bodies and its evidence is enclosed in (Annexure 2.3)
7	Faculty as resource persons in workshops/training activities	Training and Programs:2
8	International/national level events organized -- Training Programs --workshops/seminars: --FDP's :	FDP's : 2 Training Programs : 1 Annexure 2.4
9	List of conferences/seminars/workshops/FDP's/ any exclusive programmes attended for enrichment of teaching-learning process	Conferences-Nil Seminars-Nil Workshops-Nil FDP's-12



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	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 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 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 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 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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		<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"> 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:3 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 3 Add-on and Certificate course programs.
11	Result analysis and conduct of remedial classes for students with backlogs	<ul style="list-style-type: none"> 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:	1 student is progressed for higher studies. Sivala Yaswanth joined for 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

1	Faculty Publications in journals: Peer review journals: Thomson Reuters Impact factor journals	Total No. Of Peer review journals: Nil No. SCOPUS/SCI Indexed journals :Nil
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2	Publications in conferences: National: International:	International-4
3	Percentage of Faculty contributing in Research Publications:	7 Percentage of Faculty contributing in Research Publications
4	Ph.D s registered: Submitted: Awarded: Ph.D. guiding/guided	Registered:--3 Submitted: --Nil Awarded: 3 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 (Annexure:4.2)
8	Research centers of excellence established:	Recognized as JNTU-GV Research center of excellence for the academic year 2022-2023
9	Skill development center established	YES, Skill development center established in collaboration with APSSDC

5. Infrastructure and Learning resources

S.No	Criterion	Observations
1	Infrastructure facilities to improve teaching learning process Class rooms: Laboratories: E-class rooms: Seminars: Faculty rooms:	Classrooms: 16 Laboratories: 5 E-classrooms: 1 Seminar halls: 2 Faculty rooms: 4
2	Internet facility for faculty and students:	Wi-Fi net is enabled
3	Technical and administrative staff support	3 members of Technical and 1 member of administrative support is provided. P. Santhosh---Technical Ch. Shiva---- Technical



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		K. Thapalayya— Technical T. Srinu --- administrative support
4	Department budget: Sanctioned amount: Amount spent: New equipment added: Maintenance of equipment and consumable registers in labs	
5	Details of computing facilities and software	Total number of computers: 330 List of software procured: Orcade 10g, Rational Rose, Turbo, C ⁺⁺ , 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:3 1.Game design using unity 3-D 2.ETL testing 3.PEGEA-UAP
2	Student Publications: Dept. student E-Club:	Student Publications: Nil No. of E-club activities for students:2 1.IOT 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	CSE(III year) – 181 CSE(IV year) – 134 CSM(III year) – 60 CSD(III year) – 36 are participated for Internships and 1 industrial visit

7. Governance, Leadership and Management

S.NO	Criterion	Observations
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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 2022-2023
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) 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
- 5) Faculty contribute effectively to paper publications
- 6) In order to explore their ideas and showcase their skills, student clubs are developed and events are organized.



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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 modernize classrooms with ICT facilities
4. Faculty Retention is Poor

Opportunities:

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

Suggestions for Improvement

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

HOD-CSE

Head of the Department

Computer Science and Engineering

AVANTHI INSTITUTE OF ENGG. & TECH.

Cherukupally (V), Chittivalasa (SAO).

Bhogapuram (M), Vizianagaram (D)531162

Sign. of Academic Auditors

Dr. H. Mallessam Dora
Professor, Dept. of EEE

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

COORDINATOR, IQAC

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ACADEMIC AUDIT REPORT (2022-2023)

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

ACADEMIC YEAR: 2022-2023

I SEMESTER (JULY -DEC)

Date of Audit: 28-12-2022

We, Dr. G. China Rao 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 its Minutes of meeting, Curriculum changes and its evidences are enclosed (Annexure 1.3)
4	Percentage of Lab component	15%(3/20) in R19 19.2% in R20 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	27.90%(6/21.5) in R20(O.E+P.E) 30%(6/20) in R19(O.E+P.E) M.TECH



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		33.33%(6/18) 1-1 in R19(2P.E) for PS 18.75%(6/32)3-1 in R19(1P.E+1O.E) for PE Annexure 1.5
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2. Faculty information and their contribution

S.NO.	CRITERION	OBSERVATIONS
1	Student teacher ratio	19:1 17 Faculties are assigned for students 146
2	Faculty cadre ratio Prof : Assoc : Asst	Professors: 1 Associate Professor: 3 Assistant Professors: 13 Annexure:2.1
3	Faculty qualifications	Doctorates : 2 Ph.D. Pursuing :1 M.Tech: 14
4	Faculty experience and retention	Annexure 2.2 is enclosed by mentioning the (list of faculty, qualifications, total experience, experience at AIET)
5	Faculty contribution in writing: <ul style="list-style-type: none"> • 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 Programs • workshops/seminars: • FDP's : 	FDP's : NIL workshops: 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:5



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		Annexure 2.4
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3. Teaching learning process and evaluation

S.NO.	CRITERION	OBSERVATIONS
1	Student performances Attendance Exams	Lists of students Detention and condonation are maintained.
2	Mechanism and activities for slow learners improvements	Slow learners are identified based on performance in Mid-exams. Conducted extra classes for slow learners
3	Student counselling/mentoring mechanism	20 students are allotted for each faculty member for better improvement of their academic results.
4	Initiatives taken for innovative projects	Nil
5	Review and evaluation of student projects: ---Best Projects	5 Best projects are carried as per PRC guidelines Annexure 3.1
6	Monitoring of teaching-learning process <ul style="list-style-type: none"> • 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"> • 4 Guest lectures, 12 seminars are conducted for the students to get aware of somecore related subjects, which are presented by eminent resource Persons. • Add-on Courses:2 Programs are conducted for students:



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		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	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
12	Placements ---(%): Industries/organizations:	NA
13	Higher studies (%): --Institutions:	NA
14	Student development activities: ---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: NIL No. SCOPUS/SCI Indexed journals :NIL Nil
2	Publications in conferences: National: International:	Nil
3	Percentage of Faculty contributing in Research Publications:	58% of faculty are contributed for research publications
4	Ph.D s registered: Submitted: Awarded: Ph.D. guiding/guided	Registered:--2 Submitted: --Nil Awarded: 2 Guiding/guided: Nil
5	Funded R&D projects and consultancy works:	Projects are done and its evidences are enclosed Annexure 4.1
6	Incentives for faculty R&D	Incentives for faculty Research publications as per HR policy
7	MOU's with industries/R&D/Premier Institutes	MOU's with industries and R&D annexure:4.2
8	Research centres of excellence	Recognized as JNTU-GV Research center



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	established:	of excellence for the academic year 2022-2023
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	3 members of Technical and 2 members of Lab Assistant support is provided. P. Santhosh---Technical Ch. Shiva---- Technical K. Thapalayya-- 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	2 Add-on courses are conducted 1. Hybrid micro grid 2. Green Energy Technology



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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	Industrial visit :Nil Internships: EEE (IIIYEAR)- 48, EEE (IVYEAR)- 42 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. More number of student placements
2. Research and Development cell
3. Supportive working environment among department members



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Weakness

1. Lack of NRI student Intention
2. Poor English speaking capacity of the students.
3. Less number of Ph.D Holders
4. Low attendance to FDP's
5. Poor socio-economic status of the students.
6. 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.B.Murali Krishna)
Professor dept of EEE

(Mr.J.R.G.patnaik)
Assoc.Professor dept of BS&H



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ACADEMIC AUDIT REPORT (2022-2023)

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

AY: 2022-2023

I SEM

DATE OF AUDIT: 23-12-2022

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

1. COs, POs curriculum

S.NO.	CRITERION	OBSERVATIONS
1	COs and POs attainment	CO's and PO's attainment calculated as per the procedure established by PAC and (Annexure 1.1) is enclosed
2	Stakeholders feedback related to curriculum design	Graduates exit survey; Alumni survey and employer survey, teachers survey are conducted and presented as consolidated as per format. (Annexure 1.2)
3	Action taken on Minutes of Meeting	Incorporated changes as per the suggestions by DAC, PAC and its Minutes of meeting, Curriculum changes and its evidences are enclosed (Annexure 1.3)
4	Percentage of Lab component	21.6%(13.5/62.5) -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	1P.E+1O.E 27.9%(6/21.5)-R20 2 P. E 28.5%(6/21)-R19 M.Tech 3 P.E + 1 O.E



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

S.NO.	CRITERION	OBSERVATIONS
1	Student teacher ratio	19:1 24 faculty members are assigned to teach for 271 students
2	Faculty cadre ratio Prof : Assoc : Asst	Professors: 0 Associate Professor: 4 Assistant Professors: 20 Annexure:2.1
3	Faculty qualifications	Doctorates: 0 Ph.D. Pursuing :4 M. Tech: 20
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:	Books- 5
6	Faculty in Professional bodies Faculty contributions	1 Faculty member is enrolled for 2 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:1 Annexure 2.4
9	List of conferences/seminars/workshops/FDP's/any exclusive programmes attended for enrichment of teaching-learning process	Work Shops-Nil FDP-14 Conferences-Nil 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 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 Observation of teaching process in class rooms as per schedule <ul style="list-style-type: none">Tracking of syllabus coverageUploading of Lecture notes, question papers of mid and semester end examinations in E-learning portalVerification of evaluated answer papersChecking the quality of mid examinations question papersInnovative teaching methods presentedVerification of course filesMinutes of class committee meetings and action taken	<ul style="list-style-type: none">Regular visit by the principalCC 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 marksYes, the quality of mid-exam question papers is regularly checked by exam cell co-coordinator and the Principal.Interactive way of teachingRegular 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"> • 1 work shop 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 is done
9	Students feedback and follow up action	Needed action is taken up by students feedback
10	<p>Scope for self learning</p> <p>---certificate courses</p> <p>---online courses</p>	Faculty members were very instrumental in designing and developing 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"> • 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	<p>Placements (%):</p> <p>Industries/organizations:</p>	NA
13	<p>Higher studies (%):</p> <p>--Institutions:</p>	Nil
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 3.4</p>

4. Research consultancy and Extension

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



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3	Percentage of Faculty contributing in Research Publications:	Nil
4	Ph.D. s registered: Submitted: Awarded: Ph.D. guiding/guided	Registered:4 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 centers of excellence established:	Recognized as JNTU-GV Research center of excellence for the academic year 2022-2023
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	4 members of Technical and 1 member of administrative support is provided T. Jyothi-Technical P. Santhosh-Technical Ch. Shiva- Technical K. Thapulayya-Technical G. Murali- Administrative support
4	Department budget:	



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	Sanctioned amount: Amount spent: New equipment added: Maintenance of equipment and consumable registers in labs	
5	Details of computing facilities and software	Total number of computers: 60 List of software procured: 1.MATLAB 2.XILINX 3.KEEL-V4,V5 4.ARDUINO 5.HFSS 6.MULTISIM
6	Dept, Newsletters and Magazine	yes
7	Department level library resources	yes

6. Student information support and progression

S.NO	Criterion	Observations
1	Add-on courses	Add-on courses : 2 1.Industrial Application based EMBEDDED system 2. Web 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	IV ECE-52 III ECE-93 are participated for Internships and 2 industrial visits are regularly conducted



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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 2022-2023
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) More number of student placements
- 3) Strong department level support for faculty research activities
- 4) Supportive working environment among department members
- 5) Quality lab supplies
- 6) Started an incubation center (BSNL) to encourage academics and students to conduct real-time application projects and engage in research.



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Weakness

1. Lack of Ph.D Holders
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 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. U. Ramu)

Professor, Dept.of MBA

(Mr. G. Chinna Rao)

Asst. Professor, Dept. of BS&H



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ACADEMIC AUDIT REPORT (2022-2023)

DEPARTMENT OF MECHANICAL ENGINEERING

ACADEMIC YEAR : 2022-2023 **I SEMESTER**

DATE OF AUDIT : 30-12-2022

We, Dr. H. Mallesam Dora 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	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	45.4%(10/22) R19 25.6%(16/62.5) R20 M.TECH 22.22%(4/18) R19 -Two additional experiments are conducted in all labs (Annexure 1.4)
5	Evidence of academic flexibility	78.26%(18/23) R19 27.9%(6/21.5) R20 MTECH 10.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 26 faculty members are assigned to teach for 356 students
2	Faculty cadre ratio Prof : Assoc : Asst	Professors: 2 Associate Professor: 6 Assistant Professors: 18 Annexure:2.1
3	Faculty qualifications	Doctorates : 3 Ph.D.Pursuing :11 M.Tech: 12
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	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:1
8	International/national level events organized -- Training Programs --workshops/seminars: --FDP's :	FDP's : NIL
9	List of conferences/seminars/workshops/FDP's/any exclusive programmes attended for enrichment of teaching-learning process	Conferences: 6 Seminars: Nil Workshops: Nil Training Program:4 FDP's: Nil Annexure 2.4

3. Teaching learning process and evaluation

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



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	Exams	
2	Mechanism and activities for slow learners improvements	Slow learners are identified based on performance in Mid-exams. Conducted extra classes for slow learners
3	Student 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 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 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	<ul style="list-style-type: none"> • 5 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: 2 Programs are conducted for students



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	calendar	Annexure 3.2
8	MOU's with industries for internship	<ul style="list-style-type: none"> • Internship with other industries are done and its evidences are enclosed. Annexure 3.3
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 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"> • Based on the results of mid exams, remedial classes are conducted. • Based on the results of main exams, backlog classes are conducted. Annexure 2.5
12	Placements ---(%): Industries/organizations:	NIL
13	Higher studies(%): --Institutions:	NIL
14	Student development activities: ---Co-curricular ---Extra-curricular activities	Students are participated both in co-curricular and extra-curricular activities

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 conference: 1
3	Percentage of Faculty contributing in Research Publications:	(26.9%) 7 faculties contributing in Research Publications
4	Ph.D s registered: Submitted: Awarded: Ph.D. guiding/guided	Registered:-11 Submitted: --Nil Awarded: 3 Guiding/guided: Nil



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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:	Recognized as JNTU-GV Research center of excellence for the academic year 2022-2023
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:7 Laboratories:12 E-classrooms:1 Seminar halls: 1 Faculty rooms:2
2	Internet facility for faculty and students:	Wi-Fi net is enabled
3	Technical and administrative staff support	6 members of Technical and 1 members of administrative support is provided. N. Suresh---Technical K. Appala Narayana---Technical P. Kamesh---Technical M. P. Divakar Das---Technical D. Srinivas---Technical P. Santhosh---Technical P. Ramu---Attender
4	Department budget: Sanctioned amount: Amount spent: New equipment added:	



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	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 4.NX10
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.Introduction to hyper mesh 2.Simulation to ANSYS
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 2022-2023
2	MOUs with premier institutions for knowledge exchange	MOUs And its Annexure 7.1



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

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



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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.

Challenges

- 1) To increase human resource i.e. teaching and non-teaching employees.
- 2) To initiate need-based and interdisciplinary courses.
- 3) To strengthen the institution's effort in career counseling and placement of students.
- 4) To organize more cultural and sports activities for inculcating cultural and sports values into students.

R. Srinivas
HOD-MECH

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

Sign. Of Academic Auditors

Dora
Dr .H.Mallessam Dora
Assoc Professor, Dept. of EEE

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



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ACADEMIC AUDIT REPORT (2022-2023)

DEPARTMENT OF CIVIL ENGINEERING

AY: 2022-2023

I SEM

DATE OF AUDIT: 21-12-2022

We, Dr. A. Bala Krishna and Dr. R. Swapna 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	42.85% (9/21) IV/I -R19 Two additional experiments are conducted in all labs (Annexure 1.4)
5	Evidence of academic flexibility	1PE+1OE 28.57% (6/21)IV/I-R19 (Annexure 1.5)

2. Faculty information and their contribution

S.NO.	CRITERION	OBSERVATIONS
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1	Student teacher ratio	19:1 3 faculty members are assigned to teach for 23 students
2	Faculty cadre ratio Prof: Assoc: Asst	Professors: Nil Associate Professor: Nil Assistant Professors: 3 (Annexure: 2.1)
3	Faculty qualifications	Doctorates: Nil Ph.D. Pursuing: Nil M. Tech: 3
4	Faculty experience and retention	Annexure 2.2 is enclosed by mentioning the (list of faculties, qualifications, total experience, experience at AIET) (Annexure: 2.2)
5	Faculty contribution in writing: --Books: --Book chapters:	Nil
6	Faculty in Professional bodies Faculty contributions	Nil
7	Faculty as resource persons in workshops/training activities	Training and Programs: Nil
8	International/national level events organized <ul style="list-style-type: none"> • Training Programs • workshops/seminars: • FDP's: 	FDP's: 1 (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 : 3 enclosed in (Annexure 2.4)

3. Teaching learning process and evaluation

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



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	Attendance Exams	maintained.
2	Mechanism and activities for slow learners improvements	Slow learners are identified based on performance in Mid-exams. Conducted extra classes for slow learners
3	Student counselling/mentoring mechanism	20 students are allotted for each faculty member for better improvement of their academic results.
4	Initiatives taken for innovative projects	Nil
5	Review and evaluation of student projects: <ul style="list-style-type: none"> 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 coordinator 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 programmers conducted for students <ul style="list-style-type: none"> Guest Lectures 	<ul style="list-style-type: none"> Guest lectures are conducted for the students to get aware of some core related subjects, which are presented



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	<ul style="list-style-type: none"> Add-on courses Seminars/workshops Compliance of department academic calendar 	<p>by eminent resource Persons.</p> <ul style="list-style-type: none"> Add-on Courses:1 Program is 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 <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"> 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:	(65.21%) students ,15 candidates are selected in different 42 companies (Annexure 3.4)
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 3.5)

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



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3	Percentage of Faculty contributing in Research Publications:	Nil
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:	Nil
6	Incentives for faculty R&D	Incentives for faculty Research publications as per HR policy
7	MOU's with industries/R&D/Premier Institutes	MOU's with industries and R&D (Annexure:4.1)
8	Research centers of excellence established:	Recognized as JNTU-GV Research center of excellence for the academic year 2022-2023
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:1 Laboratories:3 E-classrooms:1 Seminar halls: 1 Faculty rooms:1
2	Internet facility for faculty and students:	Wi-Fi net is enabled
3	Technical and administrative staff support	2 members of Technical and 1 members of administrative support is provided. P. Santhosh-Technical Ch. Shiva-Technical K. Thapalayya - administrative support
4	Department budget: Sanctioned amount: Amount spent: New equipment added:	



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	Maintenance of equipment and consumable registers in labs	
5	Details of computing facilities and software	Total number of computers: 60 List of software procured: 1. 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	1 Add-on courses is conducted 1.Primavera
2	Student Publications: Dept. student E-Club:	Student Publications: Nil No. of E-club activities for students: 2 1. Builders 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	IV Year Civil 23 students are Participated in Internships Conducted and no 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 2022-2023
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:	Regular follow up of biometric as well as Attendance registers.



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

8. Strengths, weakness and areas of Improvement

Strengths

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

Weakness

1. Lack of NRI student interest
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
5. Lowering admissions in the department, which points to the department might cease operations

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 Centre's 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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Cherukupally (V), Chittivalasa (SAO)
Bhogapuram (M), Vizianagaram (D)-531162

Sign. of Academic Auditors

A. Bala Krishna

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

Swapana

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



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ACADEMIC AUDIT REPORT (2022-2023)

DEPARTMENT OF BASIC SCIENCES AND HUMANITIES

ACADEMIC YEAR: 2022-2023

DATE OF AUDIT: 11-08-2022

We, Mr. V. Siva Bhaskara Rao and Dr. U. Ramu 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. Annexure 1.1
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 23 Faculty members are assigned to teach for 519 students



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2	Faculty cadre ratio Prof : Asso : Asst	Professors: 0 Associate Professor: 4 Assistant Professors: 19 Annexure:2.1
3	Faculty qualifications	Doctorates : 5 Ph.D.Pursuing :4 MSc: 14
4	Faculty experience and retention	Annexure 2.2 is enclosed by mentioning the (list of faculty, qualifications, total experience, experience at AIET)
5	Faculty contribution in writing: --Books: --Book chapters:	Nil
6	Faculty in Professional bodies Faculty contributions	4 Faculty members are enrolled in Professional bodies and its evidence is Enclosed Annexure2.2
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 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's :13 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	Slow learners are identified based on



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	improvements	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 	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:2 Programs are conducted for students Annexure 3.1
8	MOU's with industries for internship	Not applicable
9	Students feedback and follow up action	Needed action is taken up by students feedback and its evidence is enclosed Annexure



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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 Mid exam to II mid exam • Extra classes are conducted for backlog students
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 3.2

4. Research consultancy and Extension

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



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		publications as per HR policy.
7	MOU's with industries/R&D/Premier Institutes	N/A
8	Research center of excellence established:	Recognized as JNTUK Research center of excellence for the academic year 2020-2021
9	Skill development center established	YES, Skill development center established in collaboration with APSSDC

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---- administrative A.Ewarrao---- administrative
4	Department budget: Sanctioned amount: Amount spent: New equipment added: Maintenance of equipment and consumable registers in labs	



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5	Details of computing facilities and software	Total number of computers:120 List of software procured:
6	Dept, Newsletters and Magazine	Yes
7	Department level library resources	Yes

6. Student information support and progression

S.NO	Criterion	Observations
1	Add-on courses	Add-on courses : 2 1. Introduction of Engineering and Design 2. Introduction of Discrete Mathematics for Computer Science
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 2022-2023
2	MOUs with premier institutions for knowledge exchange	N/A
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 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 modernise classrooms with ICT facilities

Opportunities:

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



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Suggestions for Improvement

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

HOD 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.U.Ramu
Assoc Professor, Dept. of MBA

Mr.V.Siva Bhaskar rao
HOD, Dept of ECE



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ACADEMIC AUDIT REPORT (2022-2023)

DEPARTMENT OF MANAGEMENT STUDIES

ACADEMIC YEAR: 2022-2023

I-III SEMESTERS

DATE OF AUDIT: 22-12-2022

We, Dr. R. Swapna and Mr. G. Ramu 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 164 students
2	Faculty cadre ratio Prof : Assoc : Asst	Professors: 0 Associate Professor: 3 Assistant Professors: 10 Annexure: 2.1
3	Faculty qualifications	Doctorates : 2 Ph.D. Pursuing : 1
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-1
6	Faculty in Professional bodies Faculty contributions	Nil
7	Faculty as resource persons in workshops/training activities	Training activities-2
8	International/national level events organized <ul style="list-style-type: none">Training Programsworkshops/seminars:FDP's :	Training Programs: Nil Workshops/ seminars: Nil FDP-4 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: 9 Annexure 2.4



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3. Teaching learning process and evaluation

S.NO.	CRITERION	OBSERVATIONS
1	Student performances Attendance Exams	List of students Detention and condonation are maintained.
2	Mechanism and activities for slow learners improvements	Slow learners are identified based on performance in Mid-exams. Conducted extra classes for slow learners
3	Student counselling/mentoring mechanism	20 students are allotted for each faculty member for better improvement of their academic results.
4	Initiatives taken for innovative projects	Nil
5	Review and evaluation of student projects: • Best Projects	5 Best projects are carried as per PRC guidelines Annexure 3.1 Annexure 3.1
6	<ul style="list-style-type: none"> • Monitoring of teaching-learning process • Observation of teaching process in classrooms as per schedule • Tracking of syllabus coverage • Uploading of Lecture notes, questionpapers 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 • As per schedule, the coverage of syllabus is strictly followed . by anyconsequences 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



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	<ul style="list-style-type: none"> Minutes of class committee meetings and action taken 	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 ---(%):	Nil
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
1	Faculty Publications in journals: Peer review journals: Thomson Reuters Impact factor journals	Total No. Of Peer review journals: Nil No. SCOPUS/SCI Indexed journals : Nil



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2	Publications in conferences: National: International:	Nil
3	Percentage of Faculty contributing in Research Publications:	Nil
4	Ph.D s registered: Submitted: Awarded: Ph.D. guiding/guided	Ph.D s : 2 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/Premier Institutes	MOU'S with industries and R&D Annexure: 4.2
8	Research centers of excellence established:	-----
9	Skill development center established	YES, Skill development center established in collaboration with APSSDC

5. Infrastructure and Learning resources

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



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

6. Student information support and progression

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

7. Governance, Leadership and Management

S.NO.	Criterion	Observations
1	Teaching and non-teaching attended for skilldevelopment programs	Both teaching and non-teaching staff are attended for skill development programs for an academic year 2022- 2023



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

8. Strengths, weakness and areas of Improvement

Strengths

- 1) Student active participation in extracurricular activities like Business clubs, GDs, Role plays etc.
- 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) Less number of students are approaching for Research
- 3) Poor socio-economic status of the students.



AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY

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

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

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Opportunities:

- 1) By establishing stronger relationships with industry institute interaction.
- 2) Increase of research funding.
- 3) 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-MBA

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