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AICTE-CII: GOLD Category Institute

NAAC-'A' Grade Institute (CGPA: 3.21)

NIRF-2021 Rank : 197



KAKATIYA INSTITUTE OF TECHNOLOGY & SCIENCE

Opp : Yerragattu Gutta, Hasanparthy (Mandal), WARANGAL - 506 015, Telangana, INDIA.

काकतीय प्रौद्योगिकी एवं विज्ञान संस्थान, वरंगल - ५०६ ०१५ तेलंगाना, भारत

కాకతీయ సాంకేతిక విజ్ఞాన శాస్త్ర విద్యాలయం, వరంగల్ - ౫౦౬ ౦౧౫ తెలంగాణ, భారతదేశము

(An Autonomous Institute under Kakatiya University, Warangal)

(Approved by AICTE, New Delhi; Recognised by UGC under 2(f) & 12(B); Sponsored by EKASILA EDUCATION SOCIETY)

website: www.kitsw.ac.in

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ACADEMIC & ADMINISTRATIVE AUDIT REPORTS

of

Academic Year 2022-23

Academic Audit Conducted

on

17th & 19th February, 2024

IQAC CIRCULAR

Sub: Academic & Administrative Audit and committee visit on 17th & 19th February 2024- Reg.,

I am happy to inform that the Principal has accorded the permission to Internal Quality Assurance Cell (IQAC) to conduct academic & administrative audit of various departments as per the guidelines of NAAC and UGC. The **Academic & Administrative Audit Committee** consists of external members and internal members to inspect all the departments of the institute. As per the instructions of the Principal the following academic & administrative audit committee constituted to visit various departments on 17th & 19th February 2024(Saturday & Monday).

- | | |
|---|-----------------|
| 1. Prof. C. Venkatesh
Coordinator, IQAC, KITSW | Chairperson |
| 2. Prof. T. Srinivasulu
Dean, FoET,
KU, Warangal | External member |
| 3. Prof. A. Venugopal
Professor (HAG)
Dept. of Mechanical Engineering
NIT, Warangal | External member |
| 4. Prof. M. Komal Reddy
Registrar, KITSW | Member |
| 5. Prof. K. Venumadhav
Dean, Academic Affairs, KITSW | Member |
| 6. Prof. M. Veera Reddy
Dean, R&D, KITSW | Member |

The schedule of the departments/cells visit as follows:

S.No	Date	Time	Department
1	17-02-2024 (Saturday)	9.30am: Arrival of External Members (Cordial interaction with Principal)	
2		10.00am to 11.15 am	Dept. of CE
3		11.15am to 12.30pm	Dept. of ECE
4		1.15 pm to 2.30pm	Dept. of EIE & ECI
5		2.30pm to 3.45pm	Dept. of EEE
6		3.45 pm to 5.00pm	Dept. of ME
7	19-02-2024 (Monday)	9.15am to 10.30 am	Dept. of IT
8		10.30am to 11.45pm	Dept. of CSE
9		11.45 pm to 1.00pm	Dept. of CSN
10		1.45pm to 3.00pm	Dept. of MBA
11		3.00 pm to 4.15pm	Dept. of PSS & MH
12		4.15 pm to 4.45pm	R&D Cell, SAC
13		4.45 pm to 5.15pm	Exam branch
14		5.15pm to 5.45pm	Estb. & Academic sections

In this regard, I request all the Heads of the departments kindly keep the academic & administrative audit files ready as per the format given by IQAC and cooperate to the committee during the visit. Further, the filled and signed copy of the application (hardcopy) should reach IQAC by 16.02.2024 (Friday) and soft copy by email to iqac@kitsw.ac.in.

Thank you for your kind support and concern.

To: Above Committee members, HoDs
Copy to: Principal

C. Venkatesh
Prof. C. Venkatesh
Coordinator, IQAC



KAKATIYA INSTITUTE OF TECHNOLOGY & SCIENCE

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కాకతీయ ప్రేక్షాగికి ంవ విజ్ఞాన సంస్థాన, వరంగల - 506 015 తెలంగాణ, భారత

కాకతీయ సాంకేతిక విజ్ఞాన శాస్త్ర విద్యాలయం, వరంగల - 506 015 తెలంగాణ, భారతదేశము

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INTERNAL QUALITY ASSURANCE CELL (IQAC)

ACADEMIC AND ADMINISTRATIVE AUDIT (AAA)

(Provide the Information for the A.Y 2022-23)

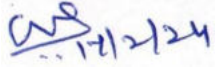



Academic Audit for Academic Year: <u>2022-23</u>	Academic Audit conducted on: <u>17.02.2024 & 19.02.2024</u>
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Best Practices:

1. Well qualified faculty with good number of PhDs and experience.
2. Student – Faculty Ratio is under 1:20.
3. 7th Pay Scales are implemented to the faculty.
4. Seed grant is provided to the faculty to carryout research.
5. Faculty are sponsored to pursue PhD by giving salary.
6. Financial assistance is provided to the faculty to attend reputed International/ National conferences
7. Gratuity is given to all the teaching and non-teaching staff.
8. Most of the laboratories are equipped with good and sufficient infrastructure along with the latest equipment and software.
9. Course web portal is developed inhouse and all the lecture material, PPTs, assignment sheets are posted on it for the students to access.
10. Counselling and Mentoring system is well developed and the parents are being informed about the progress of their wards from time to time.
11. I2RE is established in order to motivate students towards Innovation, Incubation and Start-up culture.
12. Placement record is good.
13. Continuous inputs from all the stakeholders like Alumni, Parents and Employers are taken to improve the curriculum.
14. Identifying slow learners during the first minor exams and conducting remedial classes for their performance improvement.
15. Industry Internship is made mandatory for all students
16. Participation of students in Sports, Games at National and International level, NCC, NSS activities.

Suggestions for improvement:

1. Sponsored research and consultancy is limited to a few departments. The faculty members have to be motivated towards applying for sponsored research projects by giving some financial benefits such as Matching Grants and Professional Development Fund.
2. Research output by a way of publications in SCI / Scopus indexed journals needs a substantial improvement. Institute may give awards for those faculty with good publications to promote the culture of publishing.
3. Institute may introduce one or two PhD scholarships for each department to encourage research and publications. Intra-disciplinary research shall be encouraged.
4. Motivate the faculty without PhD to pursue the PhD as a priority.
5. A strong alumnus base needs to be established so that they may be invited to the Institute on a regular basis to promote interactions among the students on campus with the alumni. Alumni support may be tapped to institute Merit/Endowment awards
6. Placements are majorly in software for most of the branches of engineering. Efforts are required to invite core companies for campus placement.
7. Industry-Institute interaction may be given a priority.
8. CO, PO and PSO attainments are low. This may be because of fixing same targets for all the courses. This may be revised.
9. Innovation, Incubation and Start-up culture among the students need to be developed. Efforts may be put in right from the first year.
10. Funding students to promote innovation - Student participation in Innovation, Incubation and Entrepreneurship activities through I2RE.
11. Conducting Guest lectures, Industrial visits and Industrial training have to be enhanced.
12. Efforts shall be made by the concerned departments also in order to improve core placements.

S. No.	Name of the Member	Designation	Signature with date
1	Prof. C. Venkatesh <i>Coordinator, IQAC, KITSW</i>	Chairperson	 17/2/24
2	Prof. T.Srinivasulu <i>Dean, FoET, KU, Warangal</i>	External Member	
3	Prof. A. Venugopal <i>Professor (HAG) Dept. of Mechanical Engineering NIT Warangal</i>	External Member	 17.2.2024
4	Prof. M. Komal Reddy <i>Registrar, KITSW</i>	Member	 17/2/24
5	Prof. K. Venu Madhav <i>Dean, Academic Affairs, KITSW</i>	Member	 17/2/24
6	Prof. M. Veera Reddy <i>Dean, R&D, KITSW</i>	Member	

PART-D
DEPARTMENT BEST PRACTICES, SWOC, DISTINCTIVENESS, SHORT TERM & LONG TERM GOALS

I. Best Practices of the department Shot Term and Long Term Goals:

Best Practices of the Department	Committee Remarks
<ol style="list-style-type: none"> 1. Department of Civil Engineering Publishes two newsletters per year. 2. Department of Civil Engineering Publishes one technical magazine per year among which AAKRUTHI a student technical magazine is exclusively published by the students of civil engineering. 3. Faculty of Civil Engineering encourages students to attend conferences and publish technical papers. 4. Department of civil engineering monitors each and every final year student in Major project hours and helps in completing the project in time 5. Department of Civil Engineering organizes Parents meet with the parents of students who have Backlogs and shortage of Attendance and helps them get through. 6. Every week there will be a guest lecture from prominent people in the society during Civil Engineering Association Hour (Every Monday- 12:05pm to 1:05pm) 7. Faculty of Civil Engineering impart awareness and social responsibility to students (explaining about social mingling, environmental hazards, pollution control like no use of Plastics in day-to-day life) as a part of regular Academic schedule. 8. Mission Go Green Initiative- Sewage Treatment plant and Roof Top Solar Power plant is Designed and Executed by the Faculty of Civil Engineering. (Dr.L. Sudheer Reddy Dean P&E, Professor.) 9. The infrastructure in the campus is planned, designed and executed by Civil Engineering Faculty. 10. Most of the Students publish their research work with faculty in peer reviewed Journals. <p>The Faculty and Students of Civil Engineering are trained to implement energy conservation principles.</p>	<ol style="list-style-type: none"> 1. Publishes newsletters and technical magazine regularly 2. Guest lectures by eminent experts are being organized regularly 3. Organizes parents meet with the parents of students whose performance is poor.

II. SWOC Analysis

SWOC Analysis of the Department	Committee Remarks
<p>Strengths:</p> <ul style="list-style-type: none"> • Industrial Consultancy Cell- Civil Engineering is a jewel in the college providing services to public and private sector and generating revenue to the college. • Mission Go Green initiation and implementation from the department • Ethical and dedicated faculty, most of the faculty in the department are Alumni of the college and are from industry background. • Spacious laboratories with modern equipments. • Culture of encouraging faculty to go beyond the syllabus, and students to work things out independently; • Culture of encouraging our best students to stay within academics and research. • Culture of encouraging research in students by giving Best Student Project awards. • Frequent Industry interaction with students, Field visits, and application-oriented teaching using Engineering works executed in the campus. • Diversity in teaching - providing guest lecturers from prominent people like NITs, IITs and construction industry etc. • Conducting National level technical symposia and conferences every year to encourage research and skills among students and faculty. • Blended Teaching using OBLS and strictly following OBE. 	<ol style="list-style-type: none"> 1. Well equipped laboratories 2. Faculty with good experience and high faculty retention 3. Awarding best student projects
<p>Weakness:</p> <ul style="list-style-type: none"> • Only 12 People out of 32 have Ph.D. • Contribution of project outcomes to conferences is few. • Progress of PhD students is slow. • UG admissions have been slowed down due to more demand of software Engineers. 	<ol style="list-style-type: none"> 1. Research projects and publications are to be improved
<p>Opportunities:</p> <ul style="list-style-type: none"> • Changing syllabus to make it more flexible and make students industry ready. • Improving computational facilities by establishing real time labs. • Encouraging students to implement innovative ideas. 	<p>Recent Software developments in software relevant to Civil engg. are to be incorporated in the curriculum in order to attract best quality of students.</p>

<ul style="list-style-type: none"> • Encouraging research by faculty members. • Using online resources to supplement traditional teaching methods. 	
<p>Challenges:</p> <ul style="list-style-type: none"> • Effectively teaching a heterogeneous group of students. • Keeping students focused in the face of increasing competition in every sphere. • Providing useful career advice to students. • Ensuring that all students graduate with the competence and maturity expected of an educated person in society. • Motivating students for placements in our domain for field oriented jobs and other domain for companies offering low package. • Motivating students for Higher studies in premier institutions like IIT's and NIT's and other research organisations. • Ensuring that all students graduate with the competence and maturity expected of an educated person in society. 	<ol style="list-style-type: none"> 1. Attracting best quality of students in light of demand for the CS related programs. 2. Providing necessary training to the fast learners promoting them to higher studies.

III. Short term and Long Term Goals of the department

Short Term Goals of the Department		Committee Remarks
Short term goal 1: To strengthen interdisciplinary skills.	Action Plan: <ul style="list-style-type: none"> • Industry visits • Imparting core & software skills 	
Short term goal 2: To improve teaching learning process of the faculty by conducting /participating in AICTE/UGC/self sponsored seminars in the department.	Action Plan: <ul style="list-style-type: none"> • By conducting One FDP's/ Seminar per year. Introducing Course web and OBLS 	
Short term goal 3: Stage wise Modernization of labs.	Action Plan: To modernize Soil Mechanics, CT lab by replacing old equipment.	

Long Term Goal(s) of the Department	Committee Remarks
<p>Long term goal(s):</p> <ul style="list-style-type: none"> To create centre of excellence for Research and development in Civil Engineering. Making students industry ready by introducing full time internship in construction industry during 8th semester. <p>Action Plan:</p> <ul style="list-style-type: none"> The Department has already started to modernize and expand laboratories. Proposing MoU's with construction industries for internship. 	

IV. Portray department distinctness

Distinctiveness of the Department	Committee Remarks
<p>Distinctiveness of the Department:</p> <ul style="list-style-type: none"> ➤ Faculty experience and retention ➤ Industrial Experience ➤ Generating significant revenue through industrial consultancy. ➤ Faculty with foreign degrees/IITs and NITs-(60%) 	

V. Previous Academic Audit remarks and Action Taken Report

Previous Academic Audit remarks	Action Taken Report	Committee Remarks
<p>May be provided details such as specifications and make of major equipment, list of experiments, list of common equipment/tools, date of purchased, maintenance, calibrations etc</p>	<p>Details of new equipment procured in 2022-23 is provided in Annexure 1.</p>	<p>New equipment is procured</p>
<p>Purpose and justification not clear</p>	<p>Purpose and justifications are provided in Annexure 1.</p>	
<p>Summary of stakeholders resolutions may be included</p>	<p>Mentioned in Annexure 2 stakeholders survey file.</p>	<p>Observed</p>
<p>Workload is not uniform; it should be standardised as per AICTE/UGC norms</p>	<p>Complied through attached circular from O/o Principal Annexure 3.</p>	<p>Uniform workload as per AICTE guidelines</p>

Summary or conclusions of assignment evaluations to be included for better interpretation	Evaluation rubrics were included in course file.	Feedback on assignments is given to the students for improving their performance
Action taken is incomplete	CCM, CRC and CRM conducted regularly and is complied.	ATR shall include the analysis of outcomes
Summary, conclusions and suggestions of student performance should be included for better understanding to parents	Institute dynamic website development is under process which includes details of student's performance to parents.	Institute has developed a website for improving the Teaching-Learning process.
Object of remedial classes and reaching the objective not clear	The objective of R.C. is to improve the performance of identified slow/weak learners based on CIE.	The outcomes of the remedial classes shall be analysed and recorded.
No correlation with resolutions, actions, realizations and ATR is incomplete	CCM, CRC, and CRM conducted regularly and is complied	Complied
Make up classes' objectives must be differentiated from remedial classes and completed accordingly	Makeup classes are conducted for students who were absent on various grounds for regular theory/ lab courses. Remedial classes were conducted for identified slow/ weak learners based on CIE.	Complied
Encourage for latest ICT tools and customised department specific exclusive ICT tools or software's may be procured	All the faculty are using ICT tools for Blended/ Hybrid TLP (Teaching learning process).	The lectures, tutorials, assignments, etc are all posted on the TL software for the students to access the material
Conference papers may be excluded from course research papers	Course research papers are floated through only refereed journals	Research papers are included as part of the teaching-learning process.
Faculty wise publication number should be included and 32 faculty published 15 Scopus journal papers- Needs	Faculty-refereed publications were improved from 15 to 21.	Publications in quality journals and SCI/Scopus are to be increased.

improvement		
Proposed projects 17, submitted-0, approved-0, Serious efforts are required for preparing better proposals as per respective funding agency thrust areas, send project proposals to outside experts for review and suggestions before submission, think out of box to improve.	The project proposals were submitted to MSME. Further faculty are encouraged to submit the proposals to funding agencies.	The faculty must be motivated to submit proposals on a regular basis.
Eligible-134, Registered-40, Placed-40: Reasons for less than 50% students' registration, core placements details to be included	Students' placements in 2022-23 improved from 30% to 50%. Eligible -131 Registered-96 Placed & higher education - 65	Efforts are to be made for placements in core companies.
<ul style="list-style-type: none"> • Associate Professors shortage as per AICTE cadre ratio • Faculty pursuing PhD - 13-Details of registration date, reasons for not completing, research progress since then, type of research, etc are to be included for proper audit • Rewrite best practices, swoc, short-and long-term goals to reflect your dept achievements, future targets and should be more realistic (Restrict for one page only) 	<ul style="list-style-type: none"> • Intake for Civil Engineering is reduced from 120 to 60 from the AY-2022-23, Hence the faculty cadre ratio is maintained as per the intake. • Details are included in Annexure 4. (PhD) • Enclosed in Part D (swoc, short and long term goals) 	

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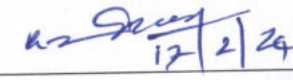
(Name & signature of the Department Academic Coordinator with Date)

(Name & signature of the Head of Department with Date)

Overall Suggestions / Remarks by Department Academic Audit Committee Members:

S. No.	Areas / activities to be focused for improvement
1.	Publications in quality journals, especially in SCI are to be improved.
2	More efforts are required to improve Research and Consultancy. Though the department has got some regular consultancy in testing and design, more efforts are required to get consultancy in design projects leading to publications.
3	CO, PO attainments are observed to be very poor in many courses. The targets may be fixed based on the past performance of the students in that course and POs.
4	Faculty are to be encouraged to utilize Seed grant given by the institute to carry out research activities leading to publications and projects.
5	Try to have more collaborations with Industry and R&D labs for getting sponsored projects.
6	PhD scholarships of one or two with scholarships may be introduced by the Institute to increase the research culture in the departments.
7	Value addition by certification programs as well as technology training for the students shall be focused
8	Department may take initiatives for placements in core domains.

Department Academic Audit Committee Members:

S. No.	Name of the Member	Designation	Signature with date
1	Prof. C. Venkatesh	Coordinator, IQAC, KITSW	 17/2/24
2	Prof. T Srinivasulu	Dean, FoET, KU, Warangal	
3	Prof. A. Venugopal	Professor, MED, NIT Warangal	 17.2.2024
4	Prof. M. Komal Reddy	Registrar, KITSW	 17/2/24
5	Prof. K. Venu Madhav	Dean, Academic Affairs, KITSW	 17/2/24
6	Prof. M. Veera Reddy	Dean, R&D, KITSW	

PART-D
DEPARTMENT BEST PRACTICES, SWOC, DISTINCTIVENESS, SHORT TERM & LONG TERM GOALS

I. Best Practices of the department Short Term and Long Term Goals:

Best Practices of the Department	Committee Remarks
<p>1. Outcome-based education approach: The department follows an outcome-based education approach, developing outcome-based learning strategies (OBLS) with clear objectives and outcomes and allows for continuous improvement.</p> <p>2. i²RE Implementation in teaching learning process: The department promotes innovation and entrepreneurship through course research papers, course patents, course projects, mini & major projects etc. in teaching learning process and entrepreneurship activities.</p> <p>3. Regular student-led webinars: The department holds weekly webinars on latest trends in Mechanical Engineering and to develop self-disciplined and entrepreneurial mindset</p> <p>4. Training and placement opportunities: The department provides regular training in communication skills and aptitude to increase students' employability. Company specific trainings are also conducted by the department.</p> <p>5. Encouraging internships and external competitions: The department encourages students to pursue internships during vacations to acquire necessary problem-solving skills. Additionally, students are encouraged to participate in external competitions both academic and extracurricular.</p> <p>6. Regular parent meetings and communication: The department conducts regular parent meetings to provide feedback on the progress and development of their children. The department sends progress reports to parents via registered post and also shares soft copies of exam results via WhatsApp. Counsellors also reach out to parents to enquire about a student's absence from exams.</p> <p>7. Student counselling: The department assigns one counsellor to each student to provide personalized attention and support. Through regular counselling sessions during MYC period, students can discuss</p>	<p>1. Introducing research papers, patents in TLP of every course is innovative and appreciated.</p> <p>2. Holding weekly webinars keeps students abreast with the latest developments.</p> <p>3. Pursuing internships is encouraged and flexibility is introduced as part of curriculum.</p> <p>4. Conducting regular parents meetings and keeping them updated about the progress of their children is well appreciated.</p> <p>5. Well established student counselling system is in place</p>

<p>their academic performance, personal issues, and career goals with their counsellor.</p> <p>8. Active Society for Automotive Engineers (SAE) India KITS Collegiate Club: The SAE India KITS Collegiate Club was established in 2008 to expose students to various technical aspects of the automobile industry. Under the guidance of the club, students design all-terrain vehicles and participate in SAE BAJA competitions. The SAE India KITS Collegiate Club has won eight prizes at the national level over the past decade.</p>	
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II. SWOC Analysis

SWOC Analysis of the Department	Committee Remarks
<p>Strengths:</p> <ol style="list-style-type: none"> Well qualified and experienced faculty with doctoral degrees, with good faculty retention ratio. Specializations available in various fields of mechanical engineering, enabling students to develop expertise in specific areas. Regular research publications in reputable peer-reviewed journals, such as SCI/SCOPUS/WoS. The department is equipped with 12 state-of-the-art laboratories, including a central workshop and a separate CAD lab with necessary software and experimentation facilities. The department is recognized as a Research Centre by Kakatiya University, Warangal. Strong, accomplished, and well-settled alumni in various domains in India and abroad. Supportive administration. The department is involved in a collaborative project with the University of Pittsburgh Medical Centre (UPMC) to design, manufacture, and market a Total Artificial Heart (TAH) as part of the IAAH Project, which is a Centre of Excellence. 	<ol style="list-style-type: none"> Faculty are well experienced with nearly 50% of them holding PhD degree. Faculty are from well diversified areas of Mechanical Engineering. Having one research project and one MSME project sanctioned, but needs further efforts to improve this.
<p>Weakness:</p> <ol style="list-style-type: none"> Less R&D projects Lack of Industrial consultancy work 	<p>Efforts are required to improve Research and consultancy</p>
<p>Opportunities:</p> <ol style="list-style-type: none"> Leveraging emerging technologies like AI, IoT, and automation in the curriculum. Strengthening of advanced research facilities. To secure funding for research projects. Strengthening ties with industries for research collaborations and job opportunities. Academic agreements/International partnerships with universities abroad for enhancing students' admission. Human resource development for teaching and research. 	
<p>Challenges:</p> <ol style="list-style-type: none"> Attracting best quality students. Attracting High CTC paying core companies. Declining interest in core branches among parents and students. Competing with premier institutes in research and technical education. 	<p>Efforts are required to attract best quality of students and core companies for placements</p>

III. Short term and Long Term Goals of the department

Short Term Goals of the Department		Committee Remarks
Short term goal 1: Strengthening of Additive Manufacturing Laboratory	Action Plan: 1. Advanced 3D Printers are to be purchased 2. Faculty expertise is being built in the area of 3D printing 3. Impart training to students and faculty in the area of 3D printing	Facilities in Digital Manufacturing and Automation are to be established to strengthen Make in India policy of the country
Short term goal 2: Modernization of Dynamics of Machinery Laboratory	Action Plan: Two pick and place Robots are to be purchased to demonstrate working principle of robots, and various and joints and mechanism.	Encouraged to establish Robotics lab.

Long Term Goal(s) of the Department	Committee Remarks
<p>Long term goal(s):</p> <ol style="list-style-type: none"> To emerge as a centre of excellence in the field of Mechanical Engineering To provide consultancy services to the Industry on latest technologies. To empower students to pursue higher levels of graduation, leadership positions & entrepreneurial endeavors. <p>Action Plan:</p> <ol style="list-style-type: none"> Coordinate effectively with other disciplines to engage and work on technological breakthrough with multidisciplinary research Collaboration with industry Academic agreements/International partnerships with universities and industries for enhancing required skills 	

IV. Portray department distinctness

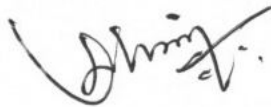
Distinctiveness of the Department	Committee Remarks
<p>Distinctiveness of the Department:</p> <ol style="list-style-type: none"> The department is existing since the inception of the institute The department has highest number of doctorates (21) The department is recognized as the research center by Kakatiya University, Warangal. Average experience of faculty is above 14 years. The department is accredited 6 times by NBA (UG) PG program of the department is also accredited by NBA, recently. The department holds weekly webinars on latest trends in Mechanical Engineering and to develop self-disciplined and entrepreneurial mindset. The department is recognized as local chapter by ISHRAE. Students participate actively in SAE Collegiate club every year. 	<p>Department is having good infrastructure and all the required facilities for Teaching-Learning.</p> <p>Faculty are experienced and having a good retention.</p> <p>Both the UG and PG programs peer reviewed by NBA and accredited.</p>

V. Previous Academic Audit remarks and Action Taken Report

Previous Academic Audit remarks	Action Taken Report	Committee Remarks
May be provided details such as specifications and make of major equipment, list of experiments, list of common equipment/tools, date of purchased, maintenance, calibrations etc.	Complied and it is in force	Complied
Purpose and justification not clear	<ul style="list-style-type: none"> This investment has been made to purchase AKAR 3D Printers, Aniquibic Resin based 3D printers and MATLAB software. These equipments are incredibly useful for students in the current era for hands on experience, prototyping, complex geometry exploration, industry relevant skills and inter disciplinary collaboration. The total cost of newly added equipment in the department's laboratories is Rs. 7,78,470/-. 	
Summary of stake holders survey, typical suggestions made and resolutions may be included	As per suggestions given by stakeholders Advanced Data Structures Course and Laboratory included in the curriculum URR18-R22	Included in the curriculum to improve placement opportunities
Workload is not uniform; it should be standardized as per AICTE / UGC norms	<ul style="list-style-type: none"> The Work load is different for ODD and EVEN Semesters The average load is almost as per AICTE norms (Professor-14, Associate Professor -16, Assistant Professor-18-20) 	Complied
Summary or conclusions of assignment evaluations to be included for better interpretation	Online assignment submission and evaluation process adopted, assignments are checked with Turnitin Software for Plagiarism	Implementing online assignment submission system
Action taken is incomplete	<ul style="list-style-type: none"> After completion of minor-I & II, MSE-I & II BET reports were prepared, in which action taken reports and action to be taken reports were mentioned. Based on these reports, remedial classes were conducted, and also additional handouts and materials provided to the students. Based on the CRC and Online feedback appropriate action is initiated and concerned faculty will submit their explanation 	Remedial classes were conducted as per the feedback in the CRC meetings
Summary, conclusions and suggestions of student performance should be included for better understanding to parents	<ul style="list-style-type: none"> Student progress report was sent to the parents through post & whatsapp via respected faculty counselors. The concern counselor will educate the parents about their ward over phone call or during parent teacher meet. Students performance form is provided to the parents in 	Included

	the Parent teacher meeting, which includes CGPA, No. of backlogs, consolidated marks and attendance percentage.	
Object of remedial classes and reaching the objective not clear	<ul style="list-style-type: none"> • Remedial classes: department conducts remedial classes for the students who secure less marks. Accordingly a schedule is notified. Concerned Course faculty identifies students who performed poorly in Minor-I, MSE-I, and Minor-II as needing additional support and conducts RC. • The teacher submits a report of the topics covered and records the extent of learning by individual student. 	The outcome of the remedial classes shall be analysed and recorded.
No correlation with resolutions, actions, realizations and ATR is incomplete	Online feedback was taken before MSE-I and MSE-II. CRC meetings with students were conducted and appropriate action was initiated.	
Make up classes' objectives must be differentiated from remedial classes and completed accordingly	<ul style="list-style-type: none"> • Makeup classes are conducted by the faculty based on requirement for concerned courses. • Remedial classes are conducted after Minor and MSE exams as mandatory for all courses. 	
Encourage for latest ICT tools and customized department specific exclusive ICT tools or software's may be procured	<ul style="list-style-type: none"> • LCDs and screens are provided in each class, MCAD lab and workshop for effective PPT presentation. • Software like solid works, Fusion360, Lotus for suspension, Vivel labs for ergonomics are being used by students 	
Conference papers may be excluded from course research papers	Complied and it is in force. The conference papers were not included or considered as course research papers.	
Faculty wise publication number should be included and 42 faculty published 17 Scopus journal papers- Needs improvement	<ul style="list-style-type: none"> • In the AY: 2022-23 the total number of faculty is 39, and published 19 SCI/Scopus indexed journals. • Faculty wise publication number is done. 	
Proposed projects 52, submitted-24, approved-01, Serious efforts are required for preparing better proposals as per respective funding agency thrust areas, send project proposals to outside experts for review and suggestions before submission, think out of box to improve.	<ul style="list-style-type: none"> • The faculty were submitted total 19 proposals to SERB-TARE and CRG scheme in collaboration with IIT / NIT faculty • One faculty proposal received SERB-TARE grant worth of Rs. 18.3 Lakhs. 	Efforts to be increased to utilize the seed grant and publish research papers and finally converting them to apply for research projects.
Eligible-202, Registered-101, Placed-80: Reasons for only 50% students' registration, core placements, etc details to be included	138 students were registered for T&P out of 169 students. Majority of the students opted for Higher education in abroad. Out of 169 students, 70 students were placed in various companies (core companies- JSE, Hyundai Motor, Design	Majority of the placements are observed in software. Efforts to be improved to get more core companies.

	Tribe, Kaveesha Engineering, VEM Technologies and Polycab India Ltd.)	
Associate Professors shortage as per AICTE cadre ratio <ul style="list-style-type: none"> Faculty pursuing PhD- Details of registration date, reasons for not completing, research progress since then, type of research, etc are to be included for proper audit Rewrite best practices, SWOC, short- and long-term goals to reflect your dept achievements, future targets and should be more realistic (Restrict for one page only) 	<ul style="list-style-type: none"> The combined number of Professors and Associate professors is as per AICTE norms. The research progress report of the PhD pursuing faculty is maintained for proper audit. 	Teacher cadre ratio at the level of Associate professors is very poor



Dr. U. SHRINIVAS BALRAJ

(Name & signature of the Department Academic Coordinator with Date)







Dr. P. SRIKANTH

(Name & signature of the Head of Department with Date)

Overall Suggestions / Remarks by Department Academic Audit Committee Members:

S. No.	Areas / activities to be focused for improvement
1	Online Teaching Learning Software is in place where all the lecture material, tutorials, Assignment sheets, etc. are made available to the students.
2	Publications in quality journals are to be improved
3	Need to focus on externally funded R&D projects.
4	CO, PO attainments are observed to be very poor in many courses. This may be because of the procedure adopted to fix the targets, which needs a thorough revision.
5	A group of faculty may join together and shall utilize the seed grant to carry out research activities leading to publications.
6	Effort shall be focused on improving the core placements and also the pay packages for students in campus placements
7	Alumni support may be tapped to institute Merit/Endowment awards

Department Academic Audit Committee Members:

S. No.	Name of the Member	Designation	Signature with date
1	Prof. C. Venkatesh	Coordinator, IQAC, KITSW	 17/2/24
2	Prof. T. Srinivasulu	Dean, FoET, KU, Warangal	
3	Prof. A. Venugopal	Professor (HAG), Department of ME, NIT, Warangal	 17.2.2024
4	Prof. M. Komal Reddy	Registrar, KITSW	 17/2/24
5	Prof. K. Venumadhav	Dean, Academic Affairs, KITSW	 27/2/24
6	Prof. M. Veera Reddy	Dean, R&D, KITSW	

PART-D
DEPARTMENT BEST PRACTICES, SWOC, DISTINCTIVENESS, SHORT TERM & LONG TERM GOALS

I. Best Practices of the department Short Term and Long Term Goals:

Best Practices of the Department	Committee Remarks
<ul style="list-style-type: none"> • Strong student mentoring system • Students are encouraged to take up Mini & Major projects related to social concern • Lecture material, Lecture PPTs, Lecture videos tutorial sheets and assignment sheets are posted in course web portal • Student internships are encouraged • Students are trained in core areas to support placement drives • Faculty and Students are encouraged to complete NPTEL Certifications • Industrial visits / Alumni interactive sessions are arranged • Various technical events are organized under IEEE/IETE/ISTE student chapters 	<p>Lecture material, PPTs, Tutorials and assignment sheets are made available for the students on Course web portal.</p> <p>Additional learning in terms of industrial visits, NPTEL courses are encouraged.</p>

II. SWOC Analysis

SWOC Analysis of the Department	Committee Remarks
<p>Strengths:</p> <ul style="list-style-type: none"> • The Department has a “Research Center” recognized by the Kakatiya University, Warangal and runs a doctoral programme leading to Ph.D degree. • Research Scholars are working in various diversified fields of Electronics and Instrumentation Engineering, such as Virtual Instrumentation, Biomedical instrumentation, Signal Processing, VLSI and Embedded Systems, etc. • Department has state of the art laboratories such as Virtual and Bio medical Instrumentation Lab, Electronic-CAD Lab, Process Control Lab, Microprocessors and Microcontrollers Lab, etc. 	<p>Department has well qualified and experienced faculty.</p> <p>It is one of the oldest departments of the Institute and recognized as Research Centre by KU.</p>

<ul style="list-style-type: none"> • B.Tech. program is accredited by the National Board of Accreditation (NBA), New Delhi. • The department has strong support from Alumni, working in various premier institutes and top class industries. EIE alumni have funded Project works laboratory of the department for a worth of 8 lakhs. Prominent Alumni include: <ul style="list-style-type: none"> ▪ Dr. V. Ramgopal Rao (Batch 1982-86), Professor & Head, Nanotechnology division, IITB, Bombay ▪ Sri Ashuthosh Rana (Batch 1981-85), Founder & CEO, ACTIFIO. Inc, Hyderabad ▪ Dr. T. K. Sai (Batch 1982-86), Principal Scientific Officer, NITW. • The Department has highly qualified, committed & experienced faculty and dedicated technical & supporting staff. <ul style="list-style-type: none"> ▪ Faculty of the department has expertise in various diversified fields like Biomedical Instrumentation, Signal Processing, Embedded Systems and VLSI. ▪ Faculty members are actively involved in research activities and have good number of research publications to their credit. ▪ The Department has a center of excellence “NI LabVIEW “which is training the students to acquire the skills required for CLAD certification. 	<p>Department has a CoE: NI LabVIEW which is training students to acquire CLAD certification.</p>
<p>Weakness</p> <ul style="list-style-type: none"> • Majority of the students admitted into the UG program are from rural background with less exposure and poor communication skills. 	<p>Efforts are to be made towards getting Sponsored Research projects and quality publications.</p>
<p>Opportunities:</p> <ul style="list-style-type: none"> • The students have opportunities in Industries related to Power, Textiles, Cement, Petrochemicals, Pharmaceuticals, Chemical, Food processing, VLSI, Signal processing, Optical & Laser based communications, Wireless communications and Embedded Systems etc. • Department faculty has wide scope for carrying research projects. 	
<p>Challenges:</p> <ul style="list-style-type: none"> • Core placements and Higher Education in Electronics specialization are the two major challenges faced by the department. 	<p>Efforts are required to attract best quality of students and core companies for placements</p>

III. Short term and Long Term Goals of the department

Short Term Goals of the Department		Committee Remarks
<p>Short term goal 1:</p> <ul style="list-style-type: none"> To strengthen research activity in the area of Bio-medical signal processing and Instrumentation in collaboration with renowned educational institutes and specialized hospitals. 	<p>Action Plan:</p> <ul style="list-style-type: none"> Research scholars and other faculty who are working in the area of Biomedical signal processing and Instrumentation are advised to identify and establish contact with renowned educational institutes and specialized hospitals and organize FDPs, Workshops 	Can try for collaboration with higher educational institutions like IITs and NITs and Industries for getting sponsored research projects.
<p>Short term goal 2:</p> <ul style="list-style-type: none"> To strengthen research activity in the area of VLSI in collaboration with renowned industries. 	<p>Action Plan:</p> <ul style="list-style-type: none"> Research scholars and other faculty who are working in the area of VLSI are advised to identify and establish contact with relevant industry experts and organize FDPs, Workshops in the area of VLSI 	One or two scholarships for PhD every year in every department may be introduced by the Institute in order to strengthen the research activities.

Long Term Goal(s) of the Department	Committee Remarks
<p>Long term goal:</p> <ul style="list-style-type: none"> To focus on more number of Research projects in collaboration with industries and Consultancy services. <p>Action Plan:</p> <ul style="list-style-type: none"> To prepare good number of project proposals by taking the guidance from experts in the concerned fields and to approach Consultancy Services if required. 	Faculty have to put in more efforts in utilizing the seed grant given by the institute leading to publications and projects.

IV. Portray department distinctness

Distinctiveness of the Department	Committee Remarks
<p>Distinctiveness of the Department:</p> <ul style="list-style-type: none"> ▪ The Department of Electronics & Instrumentation Engineering (EIE) was established in the year 1981. The department is distinct being first in the country to offer a B.Tech. program in Electronics & Instrumentation stream. The B.Tech. (EIE) program has been accredited by the National Board of Accreditation (NBA) of AICTE, New Delhi for three times and re-accredited under Tier-I w.e.f. 2021-22 to 2023-24. ▪ The department is recognized as a Research centre for Electronics and Instrumentation Engineering stream under Kakatiya University and offers state of the art research facilities to the Ph.D. scholars registered in the specified areas of Electronics, Communication, Embedded systems, VLSI and Signal Processing. ▪ The Department of Electronics and Instrumentation Engineering has a fine blend of experienced, young, dynamic and committed faculty ▪ The EIE department is privileged to have many distinguished alumni who are settled across the globe in distinct positions. Prof V. Ram Gopal Rao garu, <i>Former director of the IIT Delhi & ShanthiSwaroopBhatnagar awardee</i>, is one of the prominent alumni of the department. ▪ The department hosts a Centre of Excellence (CoE) named “NI LabView Academy”, which works with an objective to train the UG students of EIE, ECI, EEE & ECE on utilization of LabVIEW software tool for Embedded & IoT applications ▪ Department is offering Honours & Minor programmes titled Honours in ECI (HECI) and Minor in Engg. in ECI (MECI) as per the AICTE regulations. ▪ The department is having Major Research Groups (MRGs) with faculty expertise in the domains of Signal processing, VLSI, Embedded systems & Instrumentation. With kind support of management & administration, department faculty is doing research in the 	

<p>research areas identified under MRGs, involving both faculty and UG & PG students of the department. The details of MRGs and research areas identified under MRGs to be considered as research opportunities for B.Tech.(ECI) & M. Tech. (EV) students to work in the research domains.</p> <ul style="list-style-type: none"> ▪ UG & PG programmes offered under the department gives students an opportunity to make a successful career in the fast-growing industry 4.0 technologies, where students get a decent career in Embedded systems, IoT, Industrial IoT, Signal processing & VLSI domains ▪ Faculty visited abroad with UGC- International travel grant (ITG) & I2MTC conference grant, for presentation of research work in flagship IEEE conferences at Malaysia, China, Austria, Hungary and Singapore. 	
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V. Previous Academic Audit remarks and Action Taken Report

Sl. No.	Suggestions/ Recommendations	Action taken / Proposed action
1.	Capacity building activities to be improved	As suggested by the committee, during A.Y. 2022-23 industrial training, student workshops, Expert talks, innovation awareness programmes, industrial internships, company specific core training, programming skill development activities are conducted.
2.	Focus on Research enabled New Teaching methods	As part of course teaching, every course faculty focused on student learning through Course research paper (CRP) & Course Patent (CP) presentation / Assessment
3.	Improve industry component in curriculum	In URR18-R22 curriculum, in line with ACITE model curriculum, industry relevant courses are added to the maximum extent possible. In proposed URR-24 curriculum, in line with NEP 2020 curriculum will be modified
4.	Expert lecture series should be introduced for inviting experts from industry / research institutes / funding agency to get awareness of	Efforts are made by the department time to time, industry experts working in Industry 4.0 technologies are invited for the benefit of student community

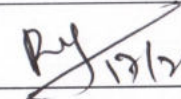
	latest research requirement / thrust areas	
5.	Exclusive Students innovation journal should be launched to improve research environment	Student publications / student innovations are recorded in department technical magazine. As suggested by the committee, students innovation journal will be planned at the institute level through R&D Cell .
6.	Organize exclusive FDPs on basic research, research stimulation and motivation, best research, innovations, technology etc	Faculty are motivated to organize FDPs in thrust areas of Embedded systems /VLSI /Biomedical signal & image processing.
7.	Arrange faculty and students frequent industrial visits	Every year, industrial visits are organized for Faculty & 6 th Semester students. During A.Y. 2022-23, 6ECI students visited the Research Centre of INCOIS, Hyderabad.
8.	Incentives /privileges will be given to faculty and students to patentable, saleable (viable), and useful research	At the institute level, to encourage research and upskill of latest technologies, Research incentives & facility for faculty to attend industry FDPs are provided.
9.	Realization of MoUs are mandatory	During A.Y. 2022-23, around 40 MoUs are realized through I3C Cell of institute. 140 number of department students attended industry internships & industry expert talks are arranged through signed MoUs.
10.	Discourage paid journals, paid patents, paid books, paid wards, etc	Institute mandated Faculty & students, to strictly comply for ARCIT policy of the institute and to ensure for non-paid Journals / books publishing.
11.	Research Committee under the chairmanship of Principal may be constituted to review regularly all ongoing research activities and to review project proposal before sending	R&D cell is working in the same direction to realize the objectives suggested by UGC / AICTE for quality research & consultancy.
12.	Make sure plagiarism should be less than 10%	For all the reports & Assignments submitted by the students, Anti-plagiarism check is ensured through Trunitin software at department level
13.	Few lectures may be arranged on IQAC and its role in academics to motivate faculty and all others concerned	IQAC Organised lectures on NEP 2020 and role of faculty in today's academic environment.
14.	Mock IQAC audit may be conducted internally before	Academic & administrative audit (AAA)files of A.Y. 2022-23 are checked by senior faculty of the department before presentation to the external

	commencement of actual	committee
15.	Need to improve core placements as it indicates your research achievements.	Company specific trainings (CSTs) by the department faculty are offered to final year students before core placements of JK Papermills, AGI Glasspac, MedhaServodrives.
16.	Engineering Entrepreneurs, Startups, may be encouraged	I2RE is working this direction, as suggested by the committee
18.	Audit format may be modified as per the requirement of AICTE, NBA, ABET, QS, NIRF etc	Academic & Administrative Audit (AAA) application of A.Y 2022-23 is modified as per NAAC / NBA/ NIRF requirements
19.	Extension activities need to improve	As suggested by the committee, during A.Y. 2022-23 Association activities, industrial training, student workshops, innovation awareness programmes, industrial internships, company specific core training, programming skill development activities are conducted.
20.	Need to focus on tutorial classes	From the A.Y 2022-23, in every course, CDAL-AP/An Level problems were discussed by course faculty and the Tutorial sheet problems of HOCL are practiced by students
21.	Research Targets may be fixed to faculty members for improving research contributions	Institute is working in the same direction through ARCIT policy
22.	Maintain faculty ratifications at 80%	Institute is working in the same direction through Faculty recruitment policy
23.	Establish R&D as per UGC and AICTE regulations / guidelines	R&D cell is working in the same direction to realize the objectives suggested by UGC / AICTE for R&D
24.	Standardize faculty workload to avoid non uniformity and demotivation	In the department, work load is maintained uniform and norms are maintained as per UGC / AICTE Gazette.

Dr. K. Srinivas


15/12/2024

Dr. M. Raghu Ram


15/12/2024





(Name & signature of the Department Academic Coordinator with Date)

(Name & signature of the Head of Department with Date)

Overall Suggestions / Remarks by Department Academic Audit Committee Members:

S. No.	Areas / activities to be focused for improvement
1.	Online Course web portal is in place where all the lecture material, tutorials, PPTs and Assignments, etc are made available to the students.
2	Publications in quality journals are to be improved.
3	More efforts are required to improve Research and Consultancy
4	CO, PO attainments are observed to be very poor in many courses. The targets may be fixed based on the past performance of the students in that course and POs.
5	A group of faculty may join together and shall utilize the seed grant to carry out research activities leading to publications.
6	Try to have more collaborations with Industry and R&D labs for getting sponsored projects.

Department Academic Audit Committee Members:

S. No.	Name of the Member	Designation		Signature with date
1	Prof. C. Venkatesh	Coordinator IQAC, KITSW	Chairperson	 17/2/24
2	Prof. T. Srinivasulu	Dean, FoET, KU, Warangal	External Member	
3	Prof. A. Venu Gopal	Professor.(HAG), Department of Mechanical Engineering, NITW	External Member	 17.2.2024
4	Prof. M. Komal Reddy	Registrar, KITSW	Member	 17/2/24
5	Prof. K. Venu Madhav	Dean, Academic Affairs, KITSW	Member	 17/2/24
6	Prof. M. Veera Reddy	Dean, R&D, KITSW	Member	

PART-D
DEPARTMENT BEST PRACTICES, SWOC, DISTINCTIVENESS, SHORT TERM & LONG TERM GOALS

I. Best Practices of the department Short Term and Long Term Goals:

Best Practices of the Department	Committee Remarks
<ol style="list-style-type: none"> 1. Adhering to the academic calendar 2. Industrial visits (once in a semester) 3. Industrial training in summer (KTPS, Palvoncha) for selected 30 students every year 4. Regular workshops conduction for students 5. Guest lectures from industry experts and alumni 6. Regular counseling of students having backlogs and less than 75% of attendance 7. Regular student feedback and corrective actions taken 	<ol style="list-style-type: none"> 1. Academic calendar is in place and all the teaching-learning activities are conducted as per the schedule. 2. Strong student counselling system is in place.

II. SWOC Analysis

SWOC Analysis of the Department	Committee Remarks
<p>Strengths:</p> <ol style="list-style-type: none"> 1. Student -Faculty ratio of 17 (exceeding NBA requirement) 2. 16 faculty having Ph.D.s and 4 faculty pursuing Ph.D. 3. 2 faculty pursuing Post doctorate fellowship 4. Research Laboratory 5. State of Art Power Systems Laboratory, Renewable Energy Systems Laboratory 6. Student-Computer ratio of 7. 4 Licensed software's 8. Good number of publications 9. Strong alumni base 	<ol style="list-style-type: none"> 1. SFR is good. 2. 50% of the faculty members are having PhD degree.

<p>Weakness:</p> <ol style="list-style-type: none"> 1. Research Centre in the department is not recognized yet (Measures have been taken for permission) 2. Less number of student publications 3. Less alumni funding 4. Less number of research grants till now 	<ol style="list-style-type: none"> 1. Efforts may be put in towards getting a research centre recognized by KU. 2. Research and publications is very poor.
<p>Opportunities:</p> <ol style="list-style-type: none"> 1. With well qualified faculty, there is an opportunity for establishing Research Centre under Kakatiya University. 2. Possibility of collaboration with international and National reputed academic institutions 3. Tapping of Alumni for funding and setting up of research facilities and research grants 	<p>Try to have collaborations with IITs, NITs, Industry and R&D labs leading to publications and projects</p>
<p>Challenges:</p> <ol style="list-style-type: none"> 1. Attracting the students from other states and countries 2. Providing opportunities in core sector for the students (despite doing the internships, students are getting placed in software companies due to high average salary packages in them) 3. Getting research grants from funding agencies 	<p>Attract students with good rank Get CORE companies for placements</p>

III. Short term and Long Term Goals of the department

Short Term Goals of the Department		Committee Remarks
<p>Short term goal 1: Receive research grants from government research organizations and other funding agencies</p>	<p>Action Plan:</p> <ol style="list-style-type: none"> (i). Training the faculty in writing effective research proposals (ii). Identifying relevant funding agency for submission of proposals (iii). Collaborating with people from NIT/ nearby industry as co-supervisors 	
<p>Short term goal 2: Establishing an industry/ alumni</p>	<p>Action Plan:</p> <ol style="list-style-type: none"> (i). Identifying the industry requirements from a 	

sponsored labs in the area of renewable energy sources or plug-in hybrid vehicles.	graduate of EEE (ii). Identifying the required equipment to be set up in research facility/ lab (iii). Identifying alumni/industry for sponsoring the required equipment	
Short term goal 3: Setting up of a research center under Kakatiya University/ other Universities to enhance research culture and innovations.	Action Plan: 1. Setting up of full scale research laboratory 2. Obtaining research grants from funding agencies	

Long Term Goal(s) of the Department	Committee Remarks
<p>Long term goal(s):</p> <ol style="list-style-type: none"> 1. Encouraging students to become entrepreneurs in the field of renewable energy or electric vehicles 2. Industry Institute Connect program for training of industry persons at the department in the field of power electronics and renewable energy <p>Action Plan:</p> <ol style="list-style-type: none"> 1. Setting of research center and allowing the faculty to work in emerging areas of power electronic drives for deriving solutions for problems associated with renewable energy and electric vehicles 2. Working in collaboration with people from industry/ premier institutes for acquiring research grants: 	

IV. Portray department distinctness

Distinctiveness of the Department	Committee Remarks
Distinctiveness of the Department: 1. Research Laboratory and EV club 2. Advanced softwares like MATLAB, PSIM, MiPOWER & PSCAD 3. 16 number of faculty with Ph.D.s 4. 02 faculty pursuing Post Doctor Fellowship 5. MoUs with TS Genco & MATLAB	

V. Previous Academic Audit remarks and Action Taken Report

Previous Academic Audit remarks	Action Taken Report	Committee Remarks
Improve industry component in curriculum	<ul style="list-style-type: none"> After consultation with industry, Advanced Data Structures theory & laboratory courses have been included in the curriculum. Steps will be taken to include industry projects in next revision of curriculum 	
Expert lecture series should be introduced for inviting experts from industry/ research institutes/ funding agency to get awareness of latest research equipment/ thrust areas	<ul style="list-style-type: none"> Industry expert has been invited to handle the course of Power Electronics for V semester students Besides, 02 experts from industries have been invited to deliver guest lectures. 	
Exclusive Student's innovation journal should be launched to improve research environment	<ul style="list-style-type: none"> Department Newsletter is being released once a semester Every year student association releases an annual report in which the innovations will be included. Technical magazine released every year with publications and articles 	
Organise exclusive FDPs on basic research, research stimulation and motivation, best research, innovations, technology etc.	<ul style="list-style-type: none"> MoUs with NIT, Warangal enable us to organize FDPs on latest research trends. Two proposals on FDPs have been applied under AICTE-AQIS scheme. 	

Arrange faculty and students frequent industrial visits	<ul style="list-style-type: none"> Faculty have been visiting industries on regular basis for improving the relations between the department and industry. In current academic year, __ faculty and __ students have undergone industry visits/training 	
Discourage paid journals, paid patents, paid books, paid awards etc.	<ul style="list-style-type: none"> Faculty and students have been informed about predatory journals and non-recognising them in providing incentives for research or promotions. 	
Research Committee under the chairmanship of Principal may be constituted to review regularly all ongoing research activities and to review project proposals before sending	<ul style="list-style-type: none"> All research proposals are being scrutinized by Academic & Research Coordinator, Prof. Chalam garu Research guidelines are given by Institute level Research Advisory Committee 	
Need to improve core placements as it indicates your research achievements	<ul style="list-style-type: none"> Identified faculty have been visiting industries to improve research achievements and core placements 	
Audit format may be modified as per the requirement of AICTE, NBA, ABET, QS, NIRF etc.	<ul style="list-style-type: none"> Audit format has been modified based on NBA & NAAC requirements 	



C Dr. B. Jayashish Kumar

(Name & signature of the Department Academic Coordinator with Date)






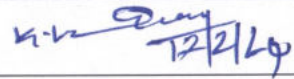
C Dr. G. Rajendar

(Name & signature of the Head of Department with Date)

Overall Suggestions / Remarks by Department Academic Audit Committee Members:

S. No.	Areas / activities to be focused for improvement
1.	Online Course web portal is in place where all the lecture material, tutorials, PPTs and Assignments, etc are made available to the students.
2	Publications in quality journals are to be improved.
3	More efforts are required to improve Research and Consultancy
4	Efforts are to be put in to improve CO, PO and PSO attainments. The targets may be fixed based on the past performance of the students in that course.
5	A group of faculty members may join together and shall utilize the seed grant to carry out research activities leading to publications.
6	Enhance the skills among the students by organising training programs on the state-of-the-art technologies.
7	Need to improve core placements

Department Academic Audit Committee Members:

S. No.	Name of the Member	Designation	Signature with date
1	Prof. C Venkatesh <i>Coordinator, IQAC, KITSW</i>	Chairperson	 17/2/24
2	Prof. T Srinivasulu <i>Dean, FoET, KU, Warangal</i>	External Member	
3	Prof. A. Venu Gopal <i>Professor (HAG), Dept. of Mechanical Engineering, NIT Warangal</i>	External Member	 17.2.2024
4	Prof. M. Komal Reddy <i>Registrar, KITSW</i>	Member	 15/2/24
5	Prof. K. Venumadhav <i>Dean, Academic Affairs, KITSW</i>	Member	 12/2/24
6	Prof. M. Veera Reddy <i>Dean, R&D, KITSW</i>	Member	

PART-D
DEPARTMENT BEST PRACTICES, SWOC, DISTINCTIVENESS, SHORT TERM & LONG TERM GOALS

I. Best Practices of the department Short Term and Long Term Goals:

Best Practices of the Department	Committee Remarks
<ol style="list-style-type: none"> 1. Regular Student Counselling process. 2. Remedial Teaching for slow learners. 3. Pre-assessment of students by conducting Placement Examinations and mock interviews. 4. Regular conduction of Class Review Committee meetings. 5. Frequent Alumni Interaction programme. 6. Providing Internship opportunities to students. 7. Conduction of Association activities to inculcate academic and management skills. 8. Providing interaction between students and faculty using College Management System. 9. Encouraging students to develop innovative projects to facilitate campus automation. 10. Attainment of Program specific course outcomes. 11. Motivating students to nurture ideas and realize dreams by inculcating innovation, incubation, research and entrepreneurship culture in the campus. 	

II. SWOC Analysis

SWOC Analysis of the Department	Committee Remarks
<p>Strengths:</p> <ul style="list-style-type: none"> • Strengths: B. Tech(CSE) Program is accredited by NBA and regularly renewing the status. • The Department of Computer Science & Engineering has been recognized as research centre by the Kakatiya University, Warangal. • Excellent and adequate infrastructure facility. • Imparting quality education with the help of dedicated faculty members. • At about 80% students either being recruited in campus placements or taking higher education. • Regular conduction of Remedial/Makeup classes for slow learners. • Continuous evaluation system to be vigilant of student progression. • Periodical review of curriculum by considering all stakeholder inputs • Department has 16 faculty holding Ph.D from reputed organizations. • Using modern ICT tools for teaching learning process. • All corners of the department are WIFI enable • Internet connectivity with 1Gbps capacity • Student projects to digitize institute activities 	

<ul style="list-style-type: none"> • Continuous effort to improve soft skills of student community • Strong alumni support • Emphasis on academic social responsibility through student clubs • Good industry connect provided to student with CSE association activates 	
<p>Weakness:</p> <ul style="list-style-type: none"> • Diversity of students • Lack of Ph.D Guideship of the faculty members with Ph.D • Lack of collaborations with R&D organizations • Inter disciplinary research activities • Remote location disadvantage for frequent industry interaction 	
<p>Opportunities:</p> <ul style="list-style-type: none"> • The currently high demand for qualified computer science and ICT professionals. • High qualification and efficiency of faculty to admit teaching and consultancy • Anxiety of students to learn • Conducting research actives for publications in peer reviewed journals • Active co curricular and extracurricular activates for outreach Programmers • Active alumni association for gathering awareness of outside world • Autonomy to brining dynamic changes in curriculum that adapts to new technology 	
<p>Challenges:</p> <ul style="list-style-type: none"> • Bridging the gap between industry and academia • Training students to cater ever changing technologies. • Gathering co-operation from all stake holders. • Carrying out research and extension activates in field of computer science and engineering • Motivating students for exploring opportunities in entrepreneurships • Deploying more efforts of faculty for getting research projects and consultancy services • Encouraging students for innovative projects and globally approved working models • Inspiring faculty and students to file patents and publishing high qualify journals • Associating with government initiatives on Smart cities, Atal-incubation, Digital India, Swachabarath, skill development program etc., 	

III. Short term and Long Term Goals of the department

Short Term Goals of the Department		Committee Remarks
Short term goal 1: Improvement in campus placements and earn high packages	Action Plan: Providing rigorous training to students	
Short term goal 2: Improving quality of Teaching learning	Action Plan: Providing industry training to faculty	
Short term goal 3: Improving quality in research activities	Action Plan: Applying for research findings	

Long Term Goal(s) of the Department	Committee Remarks
<p>Long term goal: To become Centre of excellence in the field of computer science</p> <p>Action Plan:</p> <ol style="list-style-type: none"> 1. Assessment and Benchmarking: Evaluate current status and compare with top institutions. 2. Faculty Development: Recruit skilled faculty, offer professional development. 3. Curriculum Enhancement: Update courses, add interdisciplinary options. 4. Infrastructure Development: Invest in labs, computing facilities, and software. 5. Research and Innovation: Encourage research, collaboration, and entrepreneurship. 6. Student Engagement: Provide support, organize events, and offer scholarships. 7. Industry Collaboration: Partner with companies, startups, and research institutions. 8. Quality Assurance: Maintain high standards and pursue accreditation. 9. Global Outreach: Promote achievements, engage in international collaboration. 10. Continuous Evaluation: Assess effectiveness, adapt strategies based on feedback. 	

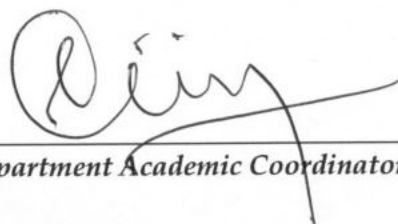
IV. Portray department distinctness

Distinctiveness of the Department	Committee Remarks
<p>Distinctiveness of the Department:</p> <p>Outcome based Education: Outcome based education ensures students to acquire desired knowledge and skills in the area of computer science and Engineering.</p> <p>Innovation, Incubation, Research and Entrepreneurship (i2RE): Inculcating i2RE practice in teaching learning process aims to empower students their creativity, knowledge, and ideas into impactful projects and products to excel in placements and higher education.</p>	

V. Previous Academic Audit remarks and Action Taken Report

Previous Academic Audit remarks	Action Taken Report	Committee Remarks
Capacity building activities to be improved	Department of CSE is working in this direction, as suggested by the committee e.x PSD labs and power programming	Not very visible
Focus on Research enabled New Teaching methods	As part of course teaching, every course faculty focused on student learning through Course research paper (CRP) & Course Patent (CP) presentation / Assessment.	Course research paper is included as part of curriculum
Improve industry component in curriculum	In URR18-R22 curriculum, in line with ACITE model curriculum, industry relevant courses are added to the maximum extent possible. In proposed URR-24 curriculum, in line with NAP 2020 curriculum will be modified.	Industry internship is permitted
Expert lecture series should be introduced for inviting experts from industry / research institutes /funding agency to get awareness of latest research requirement / thrust areas	Efforts are made by the department time to time, industry experts working in Industry 4.0 technologies are invited for the benefit of student community.	Invited lectures from Industry experts are conducted
Exclusive Students innovation journal should be launched to improve research environment	Student publications / student innovations are recorded in department technical magazine. As suggested by the committee, students innovation journal will be planned at the institute level through R&D Cell.	Not implemented yet
Organise exclusive FDPs on basic research, research stimulation and motivation, best research, innovations, technology etc	Faculty are motivated to organise FDPs in thrust areas of Machine learning.	More number of FDPs are to be organised
Arrange faculty and students frequent industrial visits	Every year, industrial visits are organized for Faculty & students.	One industry visit /year is arranged
Incentives /privileges will be given to faculty and students to patentable, saleable (viable), and useful research	Efforts are in line by the administration, as suggested by the committee.	Institute has initiated, but the faculty have to make use of the provision.
Realisation of MoUs are mandatory	During A.Y. 2022-23, around 40 MoUs are realized through I3C Cell.	More activities are to be organized under MoUs
Discourage paid journals, paid patents, paid books, paid wards, etc	Institute mandated Faculty & students, to strictly comply for ARCIT policy of the institute and to ensure for non-paid Journals / books publishing.	Publications in SCI/Scopus are encouraged
Research Committee under the chairmanship of Principal may be constituted to review regularly all ongoing research activities and to review project proposal before sending	R&D cell is working in the same direction to realize the objectives suggested by UGC / AICTE for R&D.	
Make sure plagiarism should be less that 10%	For all the reports & Assignments submitted by the students, Anti-plagarism check is ensured through Trunitin software at	Turnitin software is used to verify the plagiarism

	department level.	
Few lectures may be arranged on IQAC and its role in academics to motivate faculty and all others concerned	IQAC is working in the same direction, as suggested by the committee.	
Mock IQAC audit may be conducted internally before commencement of actual	IQAC is working in the same direction, as suggested by the committee.	Internal committee has to conduct mock visits to bring more awareness among the faculty
Need to improve core placements as it indicates your research achievements.	Efforts are in line by the department in this regard and Company specific trainings (CSTs) by the department faculty are offered to final year students during the core placement drives.	Department has to put in more efforts in this direction
Engineering Entrepreneurs, Startups, may be encouraged	I2RE is working this direction, as suggested by the committee.	Activities are being organized under I2RE
Audit format may be modified as per the requirement of AICTE, NBA, ABET, QS, NIRF etc	Academic & Administrative Audit (AAA) application of A.Y 2022-23 is modified as per NAAC / NBA/ NIRF requirements.	
Extension activities need to improve	Student Activity Centre (SAC) is working in this direction, as suggested by the committee.	NSS and NCC centers are very active
Need to focus on tutorial classes	From the A.Y 2022-23, in every course, CDAL-AP/An Level problems were discussed by course faculty and the Tutorial sheet problems of HOCL are practiced by students.	
Research Targets may be fixed to faculty members for improving research contributions	Institute is working in the same direction through ARCIT policy.	Encouraging faculty to apply for research projects.
Maintain faculty ratifications at 80%	Institute is working in the same direction through Faculty recruitment policy.	
Establish R&D as per UGC and AICTE regulations / guidelines	R&D cell is working in the same direction to realize the objectives suggested by UGC / AICTE for R&D.	
Standardise faculty workload to avoid non uniformity and demotivation	In the department, work load is maintained uniform and norms are maintained as per UGC / AICTE Gazette.	



(Name & signature of the Department Academic Coordinator with Date)

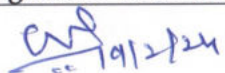





(Name & signature of the Head of Department with Date)

Overall Suggestions / Remarks by Department Academic Audit Committee Members:

S. No.	Areas / activities to be focused for improvement
1.	Publications are very and faculty have to put more efforts to publish in quality journals.
2	Consultancy is very week and more efforts are required to improve Consultancy.
3	CO, PO attainments are observed to be very poor in many courses. The targets may be fixed rationally so that the targets can be achieved
4	Faculty are to be encouraged to utilize Seed grant given by the institute to carry out research activities leading to publications and projects.
5	Faculty may be deputed to the industry for their skill upgradation.
6	PhD scholarships of one or two may be introduced by the Institute to increase the research culture in the department.
7	Value addition by certification programs for the students in the latest technologies shall be focused
8	Department may take initiatives for placements in core domains with high pay packages.

Department Academic Audit Committee Members:

S. No.	Name of the Member	Designation	Signature with date
1	Prof. C Venkatesh <i>Coordinator, IQAC, KITSW</i>	Chairperson	 19/12/24
2	Prof. T. Srinivasulu <i>Dean, FoET, KU, Warangal</i>	External Member	
3	Prof. A. Venu Gopal <i>Professor (HAG), Dept. of Mechanical Engineering, NIT Warangal</i>	External Member	
4	Prof. M. Komal Reddy <i>Registrar, KITSW</i>	Member	
5	Prof. K. Venu Madhav <i>Dean, Academic Affairs, KITSW</i>	Member	 12/12/24
6	Prof. M. Veera Reddy <i>Dean, R&D, KITSW</i>	Member	

PART-D
DEPARTMENT BEST PRACTICES, SWOC, DISTINCTIVENESS, SHORT TERM & LONG TERM GOALS

I. Best Practices of the department Short Term and Long-Term Goals:

Best Practices of the Department	Committee Remarks
1. Counselling (Mentorship) Program. 2. Stakeholders Involvement. 3. Skill and Employability Enhancement for Students.	

II. SWOC Analysis

SWOC Analysis of the Department	Committee Remarks
Strengths: <ul style="list-style-type: none"> • Dedicated faculty with strong qualifications and retention, supported by well-equipped infrastructure and labs. • Continuous monitoring and counselling of students for the overall improvement of the student. • Placement Training, Personality Development programme, professional development activities and value-added programmes are conducted for students' career development. 	
Weakness: <ul style="list-style-type: none"> • Research laboratory has to be established. • Department has to get grants from reputed organizations. • R&D and consultancy need to be enhanced. 	
Opportunities: <ul style="list-style-type: none"> • To organize more Workshops in the department for students and faculty to impart the knowledge and hands-on experience on latest technologies & tools. • To motivate students to be successful entrepreneurs. • Department can try to generate funds from consultancy work and provide hands-on experience to the students. 	
Challenges: <ul style="list-style-type: none"> • Updating of curriculum according to the industrial expectations. • Motivating the students to attend Summer Internships to get an exposure to the corporate world. • To sign MoUs with companies to have collaborative domain & specific training programs. 	

III. Short term and Long Term Goals of the department

Short Term Goals of the Department		Committee Remarks
Short term goal 1: To improve students' placements	Action Plan: a. During association hour, we are planning to conduct motivation sessions with already placed students in different companies. b. To invite eminent speakers from industries for delivering guest lectures on latest technologies.	
Short term goal 2: To Motivate students to publish their Mini and Major Project in reputed international journals and conferences	Action Plan: 1. Integrating Innovation Incubation Research and Entrepreneurship(I ² RE) into course teaching by giving special assignments on Course Patents and Course Research Paper	

Long Term Goal(s) of the Department	Committee Remarks
Long term goal: Encourage the faculty <ul style="list-style-type: none"> • To complete Ph.D. Programme. • To publish research papers and claiming patents. • To acquire research grants. Action Plan: 1. Motivating faculty to apply for research grants every year. 2. Regular monitoring of research progress of individual faculty. 3. Planning to organize research talks by experts to improve effective research capabilities.	

IV. Portray department distinctness

Distinctiveness of the Department	Committee Remarks
<ul style="list-style-type: none"> • Strong Leadership and Talent: The department might be characterized by strong leadership and well qualified, experienced and dedicated faculty who are committed to excellence and continuous improvement. • Specialized Focus: The IT Department have a specialized focus on a particular area of information technology, such as cybersecurity, data analytics and artificial intelligence and department organizes guest lecturers to students periodically. • Cutting-edge Technologies: The department could prioritize the adoption and implementation of cutting-edge technologies, staying ahead of industry trends and ensuring that department remains competitive in its technological capabilities and department organizes FDPs to the faculty on cutting-edge technologies. 	

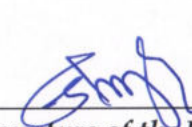
V. Previous Academic Audit remarks and Action Taken Report

Previous Academic Audit remarks	Action Taken Report	Committee Remarks
May be provided details such as specifications and make of major equipment, list of experiments, list of common equipment/tools, date of purchased, maintenance, calibrations etc.	<ul style="list-style-type: none"> Laboratory specifications and make of major equipment, list of experiments, list of equipment and date of purchased are included in file No: P17 (List of program specific labs and computing facility within department) 	
Cost of newly added equipment [Purpose and justification not clear]	<ul style="list-style-type: none"> Purpose and justification of Cost of newly added equipment are included in file No: P17 (List of program specific labs and computing facility within department) 	
Summary of stake holders survey, typical suggestions made and resolutions may be included	<ul style="list-style-type: none"> Exit feedback survey has taken from the students, parents, alumni, industry experts & recruiters. As per the feedback of the stakeholders, action taken report is prepared and new courses are introduced in the new curriculum of URR18-R22. Survey reports made available in the college website. (Action Taken Reports.pdf (kitsw.ac.in)) 	
Workload is not uniform; it should be standardized as per AICTE/UGC norms	<ul style="list-style-type: none"> Workload Standardized as per AICTE/UGC norms. Even and Odd semester time tables are included. 	
Summary or conclusions of assignment evaluations to be included for better interpretation	<ul style="list-style-type: none"> Assignments are evaluated and marks are posted in CMS within a week after the due date. The same is available in the course web page 	
Summary, conclusions and suggestions of student performance should be included for better understanding to parents	<ul style="list-style-type: none"> After every MSE examination, Student Progress report sent to the parents by registered post 	
No correlation with resolutions, actions, realisations and ATR is incomplete	<ul style="list-style-type: none"> Class Representative Committee meeting is conducted before MSE-I & MSE-II by HoD. HoD informed the faculty about their feedback collected during CRC and collect explanation from faculty who received comments from students. Online feedback is taken from students before MSE-I & MSE-II 	
Encourage for latest ICT tools and customised department specific exclusive ICT tools or software's may be procured	<ul style="list-style-type: none"> The faculty are delivering lectures using ICT tools like PPT, self-recorded videos etc. Faculty are posting course related information in course web. 	
Faculty wise publication number should be included and 21 faculty published 9 Scopus journal papers- Needs improvement	Total 14 papers are published by faculty members (19) in Scopus and SCI.	
Proposed projects 0, submitted-0, approved-0, Serious efforts are required for preparing better proposals as per respective funding agency thrust	<ul style="list-style-type: none"> Proposals were prepared and submitted 	

areas, send project proposals to outside experts for review and suggestions before submission, think out of box to improve.		
Eligible-55, Registered-55, Placed-48: Core placements details to be included	<ul style="list-style-type: none"> • Included in Placement and Higher education file. 	
Faculty pursuing PhD- Details of registration date, reasons for not completing, research progress since then, type of research, etc are to be included for proper audit	<ul style="list-style-type: none"> • One faculty submitted thesis in Osmania University. • 99% faculty registered for PhD in reputed institutions 	
Rewrite best practices, swoc, short- and long-term goals to reflect your dept achievements, future targets and should be more realistic (Restrict one page only)	<ul style="list-style-type: none"> • Updated best practices, SWOC, short and long term goals of the department. 	


19/2/24

(Name & signature of the Department Academic Coordinator with Date)

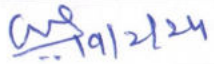




19/02/24

(Name & signature of the Head of Department with Date)

Overall Suggestions / Remarks by Department Academic Audit Committee Members:

S. No.	Areas / activities to be focused for improvement
1	Certificate programs as well as technology training shall be focused to improve the career development opportunities for students
2	Students may be encouraged to work towards Innovation, Incubation and Entrepreneurship through I2RE activities
3	Alumni interactions shall be increased to create awareness with the state-of-the-art technologies and job opportunities and also to motivate the students towards entrepreneurship
4	Efforts may be made to drive students towards higher studies by providing coaching in national level examinations such GATE, GRE, etc.
5	Students shall be encouraged to participate in national/international level technical/cultural events
6	Faculty have to put in more efforts to write proposals for getting externally funded sponsored projects and high-quality publications
7	Faculty have to utilize the seed grant provided by the Institute and work towards publications/projects
8	Teachers shall be motivated to pursue PhD
9	Efforts shall be made to improve CO, PO and PSO attainments

Department Academic Audit Committee Members:

S. No.	Name of the Member	Designation	Signature with date
1	Prof. C Venkatesh Coordinator, IQAC, KITSW	Chairperson	 19/2/24
2	Prof. T Srinivasulu Dean, FoET, KU, Warangal	External Member	
3	Prof. A. Venu Gopal Professor (HAG), Dept. of Mechanical Engineering, NIT Warangal	External Member	 19.2.2024
4	Prof. M. Komal Reddy Registrar, KITSW	Member	
5	Prof. K. Venu Madhav Dean, Academic Affairs, KITSW	Member	 17/2/24
6	Prof. M. Veera Reddy Dean, R&D, KITSW	Member	

PART-D
DEPARTMENT BEST PRACTICES, SWOC, DISTINCTIVENESS, SHORT TERM & LONG TERM GOALS

I. Best Practices of the department Short Term and Long Term Goals:

Best Practices of the Department	Committee Remarks
<ol style="list-style-type: none"> 1) The department publishes two newsletters annually. 2) One technical magazine is published by the department each year. 3) Faculty members in the department provide ongoing counseling to students to enhance their academic performance. 4) The department organizes guest lectures featuring industry experts and alumni annually to inspire students. 5) Third-year students, accompanied by faculty members, visit industries annually to gain insights into real-world applications. 6) In every laboratory, students utilize a laboratory manual cum record book prepared by the department's lab handling faculty. 7) The department hosts workshops, seminars, and other technical events for students with the backing of professional bodies such as IEEE, WIE, ISTE, and IETE, led by the Head of the Department of ECE. 8) It is compulsory for students to undergo internships, deliver seminar presentations, undertake hardware mini-projects, and execute major projects, subsequently publishing them in peer-reviewed publications. 9) Students are provided access to state-of-the-art equipment and software through the AICTE-sponsored IDEA lab, fostering innovation and incubation. 10) Partial or complete financial aid is provided for student innovative projects. 11) Faculty members are encouraged to publish their research work in UGC Care listed journals through institute policies like the Faculty Research Incentive Scheme (FRIS) and the Faculty Research Support Scheme (FRSS). 	

II. SWOC Analysis

SWOC Analysis of the Department	Committee Remarks
<p>Strengths :</p> <ol style="list-style-type: none"> 1. Continuous progressive evaluation system for students 2. Regularly curriculum is updated with inputs from the stakeholders 3. Strong industry and alumni collaboration with visible, measurable outcomes. 4. Large number of initiatives undertaken for supporting number of slow learners and students from diverse backgrounds. 5. Use of Innovative teaching methods like use of course web for posting course videos, lecture summaries and self-learning topics by faculty which is useful for the students to view the same at any time throughout the semester 6. The department has strong placement record. In last three years around 90 % of eligible candidates were placed in various MNCs with good CTC 7. Good research paper/journal/book publications by faculty and students 8. Students undertake MOOCs, NPTEL Courses and earn credits leading to Minor certifications in other specializations and awarding of Honorary degree 9. Comprehensive system which ensures platform to promote faculty students and staff development 10. Centralized e-class having computer, LCD, overhead and OHP projector 11. Internet facilities are also available in all the departments and Wi-Fi facility is available to all the students in the campus 12. Language Lab in the Department of English to develop the communicative ability of the students and faculty members. 13. Many extra-curricular activities and co-curricular activities are conducted through the nine 	

<p>clubs under Student Activity Centre (SAC).</p> <ol style="list-style-type: none"> 14. Experienced and qualified faculty members with expertise in various fields. 15. Well-equipped laboratories and facilities for practical learning and experimentation. 16. Strong industry connections leading to opportunities for internships, guest lectures, and collaborations. 17. Robust curriculum aligned with industry standards and emerging technologies. 18. Active participation in research and development activities, contributing to advancements in the field. 19. Supportive administrative staff facilitating smooth operations and student services. 20. Accreditation by NBA and NAAC ensuring quality education and recognition. 21. Access to funding and grants for research projects and academic initiatives. 	
<p>Weaknesses :</p> <ol style="list-style-type: none"> 1. No provision to admit Ph.D. Scholars as the department is not recognized as a research center by KU 2. Lack of flexibility in admitting International students to degree programs 3. Limited resources and funding for infrastructure development and maintenance. 4. High student-to-faculty ratio affecting personalized attention and mentoring. 5. Inadequate training or professional development opportunities for faculty and staff. 6. Insufficient emphasis on practical skills development and hands-on learning experiences. 7. Inconsistent engagement with industry partners or alumni for collaborative initiatives. 8. Perception issues affecting the department's reputation or brand image. 	

Opportunities:

1. With the growing trend in ICT based learning innovative methods may be incorporated into the teaching learning methodology.
2. Job oriented and skill development courses can be introduced for self employment and in house training for students in latest domains and upcoming technologies
3. Can go for a new post graduate program and blended specialized courses
4. To have an International Campus.
5. Expansion of interdisciplinary programs or collaborations with other departments.
6. Integration of emerging technologies such as artificial intelligence, IOT, blockchain, or renewable energy into the ECE curriculum.
7. Partnerships with local industries or startups for research projects, internships, and job placements.
8. Enhanced online learning initiatives to reach a wider audience and facilitate lifelong learning.
9. International collaborations for exchange programs, joint research, or student recruitment.
10. Customized training programs or certifications to address specific industry skill gaps.
11. Establishment of research centers or incubators focusing on niche areas or emerging trends in ECE.

Challenges:

1. To provide job opportunities to the PG degree holders.
2. Attract good rankers and bright students to join in UG and PG courses
3. Enhancing number of students opting for entrepreneurship and higher education.
4. With growing interdisciplinary approach in teaching-learning process, there is a greater challenge to periodically restructure our research infrastructure and industry partnership.

<ol style="list-style-type: none"> 5. Government initiatives launched recently on smart city, start-ups, make in India, clean India, skill development schemes have close parallel to the vision and mission of the institution which needs to be integrated. 6. Students with diverse background with diverse needs 7. More autonomy in admission procedure to attract international students. 8. More research grants and industry partnerships are needed for student product development activities in order to groom potential entrepreneurs. 9. Regulatory changes or accreditation requirements impacting curriculum or operations. 10. Rapid advancements in technology necessitating frequent updates to infrastructure and curriculum. 11. Societal shifts in attitudes towards higher education or the engineering profession. 12. Balancing academic rigor with student mental health and well-being initiatives. 13. Addressing environmental sustainability concerns in engineering practices and education. 	
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III. Short term and Long Term Goals of the department

Short Term Goals of the Department		Committee Remarks
Short term goal 1: To make the students industry ready	Action Plan: By providing in house training to the students and updating them with latest technology by taking them on industrial tours and enrolling them for internships in leading technological companies	
Short term goal 2: To be recognized as Research Centre	Action Plan: Application submitted for recognition as Research Centre under Kakatiya University, Warangal and to get approved as a research centre	
Short term goal 3: Academic excellence	Action Plan: To be one of the leading department in the field of Electronics and Communication and centre of eminence on par with premium institutes in the country	

Long Term Goal(s) of the Department	Committee Remarks
<p>Long term goal(s):</p> <ol style="list-style-type: none"> 1) To see that all the faculty in the department are with doctoral degrees 2) Initiate more industrial tie ups for consultancy projects. 3) Industry institute interaction towards establishing centre of excellence <p>Action Plan:</p> <ol style="list-style-type: none"> 1) To encourage faculty to publish and to attend International conferences. 2) To sign MOU's with Industries of relevance leading 3) To have tie-ups with leading industrial firms for establishing centre of excellence in the campus by respective firms in turn leading to further job opportunities for students in their subsidiaries 	

IV. Portray department distinctness

Distinctiveness of the Department	Committee Remarks
<p>Introduction:</p> <p>The Electronics and Communication Engineering (ECE) department at KITSW stands at the forefront of innovation and academic excellence, propelled by a commitment to addressing the evolving needs of society while upholding traditional values. In this discourse, we delve into one area distinctive to its priority and thrust, showcasing the department's outstanding performance within the realm of research and development (R&D).</p> <p>Setting the Stage:</p> <p>At the heart of the ECE department's mission lies a dedication to fostering technological advancement and ethical leadership among its students. Since its inception, the department has strived to instill a culture of innovation, research, and academic rigor, ensuring graduates are equipped with the skills and knowledge needed to tackle real-world challenges.</p> <p>Embracing Innovation:</p>	

The cornerstone of the department's success in R&D is its unwavering commitment to embracing innovation. Through strategic partnerships with industry leaders and research institutions, the department has created a vibrant ecosystem conducive to groundbreaking discoveries and technological breakthroughs. Faculty members, renowned for their expertise in diverse areas of electronics and communication, spearhead cutting-edge research initiatives that push the boundaries of knowledge and practice.

Nurturing Talent:

Central to the department's success is its emphasis on nurturing talent and fostering a culture of curiosity and inquiry. From the moment students step foot into the department, they are encouraged to explore their interests, engage in hands-on research projects, and push the boundaries of what is possible. Under the mentorship of esteemed faculty members, students have the opportunity to delve into areas such as embedded systems, wireless communication, signal processing, and more, paving the way for future innovation and discovery.

Encouraging Collaboration:

Collaboration lies at the heart of the department's R&D endeavours, with interdisciplinary teams coming together to tackle complex challenges from multiple perspectives. Through collaborative research projects, industry internships, and knowledge exchange programs, students and faculty alike benefit from exposure to diverse ideas and approaches, enriching their academic experience and fostering a spirit of innovation and collaboration.

Driving Impact:

The ultimate measure of the department's success in R&D lies in its ability to drive meaningful impact, both within the academic community and beyond. From developing cutting-edge technologies to addressing pressing societal issues, the department's research endeavors are guided by a commitment to making a positive difference in the world. Whether it's designing smart healthcare solutions, optimizing communication networks, or enhancing cybersecurity protocols, the ECE department at KITSW is dedicated to leveraging technology for the betterment of society.

Celebrating Achievements:

Over the years, the ECE department has amassed an impressive array of accolades and achievements, underscoring its position as a leader in the field of electronics and communication engineering. From prestigious research grants and patents to publications in top-tier journals and conferences, the department's contributions to the advancement of knowledge and technology are widely recognized and celebrated.

Looking Ahead:

As the pace of technological innovation continues to accelerate, the ECE department at KITSW remains committed to pushing the boundaries of what is possible and preparing the next generation of leaders and innovators. With a steadfast focus on excellence, collaboration, and impact, the department is poised to shape the future of electronics and communication engineering and make a lasting imprint on the world.

Conclusion:

In conclusion, the performance of the Electronics and Communication Engineering department at KITSW in the realm of research and development is nothing short of exemplary. Through a relentless pursuit of innovation, a commitment to nurturing talent, and a dedication to driving meaningful impact, the department has cemented its reputation as a beacon of excellence in the field. As we look towards the future, we are excited to see what new discoveries and breakthroughs the department will bring forth, continuing to push the boundaries of knowledge and technology for the betterment of society.

Future Plans of action for next academic year (500 words)

Introduction:

As we embark on the journey towards the next academic year, the Electronics and Communication Engineering (ECE) department at KITSW is poised to build upon its legacy of excellence and innovation. With a keen eye towards the future, we have outlined a comprehensive roadmap that encompasses strategic initiatives aimed at furthering our mission of academic excellence, research advancement, and societal impact.

1. Enhancing Curriculum:

One of our primary objectives for the upcoming academic year is to enhance the curriculum to better align with emerging trends and industry demands. By introducing new courses and updating existing ones, we aim to ensure that our students are equipped with the latest knowledge and skills needed to thrive in a rapidly evolving technological landscape. Additionally, we will explore opportunities for interdisciplinary collaboration, enabling students to gain a holistic understanding of electronics and communication engineering.

2. Strengthening Research Initiatives:

Research lies at the heart of our department's ethos, and we are committed to bolstering our research initiatives in the coming year. Through increased collaboration with industry partners and research institutions, we will facilitate the development of cutting-edge technologies and solutions that address pressing societal challenges. We will also focus on securing additional funding opportunities to support faculty and student-led research projects, fostering a culture of innovation and discovery.

3. Expanding Industry Partnerships:

In line with our commitment to fostering strong Industry-Institute Interaction, we will seek to expand our network of industry partnerships in the upcoming year. By forging strategic collaborations with leading companies in the electronics and communication sector, we aim to provide students with valuable industry exposure and internship opportunities. Additionally, we will explore avenues for joint research projects and technology transfer initiatives, creating mutually beneficial partnerships that drive innovation and economic growth.

4. Enhancing Student Engagement:

Student engagement and success are paramount to our department's mission, and we are dedicated to enhancing the overall student experience in the next academic year. Through a variety of initiatives such as mentorship programs, student clubs, and professional development workshops, we will empower students to reach their full potential both academically and professionally. Additionally, we will continue to support extracurricular activities and competitions that foster creativity, teamwork, and leadership skills among students.

5. Promoting Diversity and Inclusion:

Diversity and inclusion are core values that underpin our department's culture, and we are committed to promoting a welcoming and inclusive environment for all members of our community. In the coming year, we will implement initiatives aimed at increasing diversity among students and faculty, fostering a culture of respect and understanding, and providing support services for underrepresented groups. By embracing diversity, we aim to enrich the learning experience and cultivate a vibrant and inclusive academic community.

Conclusion:

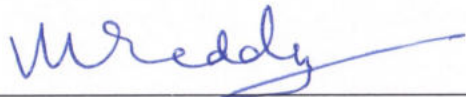
As we look towards the future, the Electronics and Communication Engineering department at KITSW is poised to embark on an exciting journey of growth and innovation. Through strategic initiatives focused on curriculum enhancement, research advancement, industry collaboration, student engagement, and diversity promotion, we are confident that we will continue to uphold our commitment to excellence and make a meaningful impact in the field of electronics and communication engineering. With a shared vision and collective determination, we are ready to chart the course ahead and shape the future of our department for generations to come.

V. Previous Academic Audit remarks and Action Taken Report

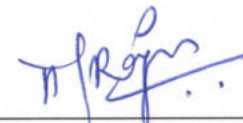
Previous Academic Audit remarks	Action Taken Report	Committee Remarks
1) Capacity-building activities to be improved	Department Conducting two workshops for the benefit of students. (Code Arduino & Fundamentals of MATLAB)	
2) Focus on research-enabled new Teaching methods	Teaching includes course projects, presentations on course patents, and course research papers. (Annexure-1)	
3) Improve industry component in the curriculum	Industry-oriented courses introduced and industry persons invited to take courses (Annexure-2)	
4) An expert lecture series should be introduced for inviting experts from industry/research institutes/funding agencies to get awareness of the	Every semester one adjunct faculty from the industry teaches an industry-related course. (Annexure-3)	

latest research requirement/thrust areas		
5) Exclusive Student innovation journals should be launched to improve the research environment	The department is planning to launch a new journal for students	
6) Organise exclusive FDPs on basic research, research stimulation and motivation, best research, innovations, technology	R&D section conducting two awareness programs on Research, its importance in Higher Educational Institutions	
7) Arrange faculty and students frequent industrial visits	Every year the department organizes student's industry visits. <i>(Annexure-4)</i>	
8) Incentives/privileges will be given to faculty and students for patentable, saleable(viable),and useful research	Seed amount provided by the administration for faculty and student's innovative projects	
9) Realisation of MOUs is mandatory	Faculty incharges of MoUs are conducting training programs for active functioning of MoUs	
10) Make sure plagiarism should be less than 10%	Mini and major projects are checked for reducing plagiarism. <i>(Annexure-5)</i>	
11) Few lectures may be arranged on IQAC and its role in academics to motivate faculty and all others concerned	Department planning to arrange a lecture on quality measures on teaching learning methodology under IQAC section	
12) Mock IQAC audit may be conducted internally before the commencement of Actual Visit	We will implement it next time.	
13) Need to improve core placements as it indicates your research Achievements.	T&P cell working in that line to bring core placements.	
14) Engineering Entrepreneurs, Startups, may be encouraged	Students are encouraged towards Startups by conducting workshops with the I ² RE center. Many students are actively participating in i2RE events. <i>(Annexure-6)</i>	
15) Audit format may be modified as per the requirement of AICTE, NBA, ABET, QS, NIRF etc	Audit form is modified as per NAAC and NBA	
16) Need to focus on tutorial class	Keeping One hour in regular time table for every subject, its tutorial question paper and solutions will be upload in CourseWeb by every subject faculty well in advance <i>(Annexure-7)</i>	

17) Research Targets may be fixed to faculty members to improve research Contributions	ARCIT policy issued by the administration to improve the research and it is now linked with annual increments. (Annexure-8)	
18) Maintain faculty ratifications at 80%	80% of the faculty members are ratified (Annexure-9)	
19) Establish R&D as per UGC and AICTE regulations/guidelines	Faculty encouraged active research.	
20) Standardise faculty workload to avoid nonuniformity and demotivation	workload is distributed as per the cadre of the faculty. (Annexure-10)	



(Name & signature of the Department Academic Coordinator with Date)

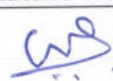

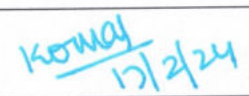
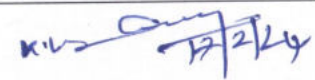


(Name & signature of the Head of Department with Date)

Overall Suggestions / Remarks by Department Academic Audit Committee Members:

S. No.	Areas / activities to be focused for improvement
1.	Online Course web portal is in place where all the lecture material, tutorials, PPTs and Assignments, etc are made available to the students. Question bank may also be made available for each course.
2	Publications in quality journals are to be improved.
3	More efforts are required to improve Research and Consultancy
4	CO, PO attainments are observed to be very poor in many courses. The targets may be fixed based on the past performance of the students in that course and POs.
5	Efforts by the faculty in utilising the seed grant provided by the institute are not observed. A group of faculty may join together and shall utilize the seed grant to carry out research activities leading to publications.
6	Enhance the skills among the students by introducing value added courses and also organising training programs on the state of the art technologies.
7	Need to improve core placements

Department Academic Audit Committee Members:

S. No.	Name of the Member	Designation	Signature with date
1	Prof. C Venkatesh Coordinator, IQAC, KITSW	Chairperson	 17/12/24
2	Prof. T. Srinivasulu Dean, FoET, KU, Warangal	External Member	
3	Prof. A. Venu Gopal Professor (HAG), Dept. of Mechanical Engineering, NIT Warangal	External Member	
4	Prof. M. Komal Reddy Registrar, KITSW	Member	 17/12/24
5	Prof. K. Venu Madhav Dean, Academic Affairs, KITSW	Member	 17/12/24
6	Prof. M. Veera Reddy Dean, R&D, KITSW	Member	

PART-D
DEPARTMENT BEST PRACTICES, SWOC, DISTINCTIVENESS, SHORT TERM & LONG TERM GOALS

I. Best Practices of the department Short Term and Long Term Goals:

Best Practices of the Department	Committee Remarks
<ol style="list-style-type: none"> 1. Regularly conducting Association hour activities to foster both technical and non-technical skills among students, while providing guidance for their pursuit of higher education. 2. Motivating students to obtain supervised certifications across diverse computer science and engineering domains, including Programming, Artificial Intelligence, Data Science, Foundations of Computing, and Systems, supported by SWAYAM-NPTEL, with the goal of enhancing placement opportunities. 3. Delivering industrial training via the Wipro TalentNext program for a duration of two months during the summer, targeting students who have completed their sixth semester. The program aims to prepare them for the industry by focusing on high-demand technologies, including Core and Advanced Java, Python, and Java Full Stack. 4. Offering the Wipro Future Skill training program, which encompasses industry 4.0 technologies, to students in their sixth semester. The objective is to equip them for the industry by covering essential areas such as Artificial Intelligence (Foundation), Cloud Computing (Foundation), Cisco Cybersecurity, Cisco IoT Foundation, and RPA (Robotic Process Automation) Foundation Program. 5. Facilitating job-oriented internships through the CISCO Center of Excellence. 6. Delivering certification training to students through the CISCO Networking Academy platform, encompassing courses such as CISCO CCNA, Cyber Security, Python, and IoT. 7. Promoting students to engage in course projects within their areas of interest. 8. Transforming course projects, mini-projects, and major projects into publications and disseminating the findings by publishing papers in indexed conferences and journals. 	

II. SWOC Analysis

SWOC Analysis of the Department	Committee Remarks
<p>Strengths:</p> <ol style="list-style-type: none"> 1. Regularly reviewing the curriculum by incorporating insights from the industry. 2. Utilizing contemporary ICT tools like Kahoot and Quizizz for enhancing the learning process, including the use of these tools for conducting viva sessions in laboratories. 3. All faculty members are actively enhancing their academic skills through participation in Faculty Development Programs (FDPs), workshops, and obtaining course certifications from MOOC platforms such as SWAYAM-NPTEL, ORACLE University, etc. 4. Several faculty members hold qualifications in GATE and NET. 5. A substantial number of faculty members have industry experience. 	
<p>Weakness:</p> <ol style="list-style-type: none"> 1. The faculty strength is insufficient when compared to the required Student-Faculty Ratio (SFR) as stipulated by AICTE and UGC norms. 2. There is a scarcity of permanent faculty members. 3. The cadre ratio is notably inadequate. 4. Insufficient funding is a challenge for undertaking research projects. 5. The preparation and submission of research proposals to various funding agencies are limited due to a lack of bandwidth among the faculty. 6. Consultancy practices are not meeting the desired standards. 	
<p>Opportunities:</p> <ol style="list-style-type: none"> 1. The demand for Computer Science and Engineering (CSE) specializations is high, driven by their versatility across a broad spectrum of applications in other departmental specializations. 	

<ol style="list-style-type: none"> 2. Providing faculty with dedicated time to delve into specialization areas for addressing real-world problems with innovative ideas can lead to impactful research, which can subsequently be applied in proposals submitted to various funding agencies. 3. Computer Science and Engineering (CSE) specializations offer ample opportunities to incubate novel ideas. Establishing a thoughtful institutional approach that grants reasonable freedom to both faculty and students is essential in this regard. 	
<p>Challenges:</p> <ol style="list-style-type: none"> 1. Engaging in research and consultancy within the field of Computer Science and Engineering specializations. 2. Channeling increased efforts from faculty members to secure research projects and consultancy services. 3. Conducting research and providing consultancy services within the realm of Computer Science and Engineering specializations. 	

III. Short term and Long Term Goals of the department

Short Term Goals of the Department		Committee Remarks
<p>Short term goal 1: All faculty members are required to complete course certifications from NPTEL, as mandated by the circular from the principal's office. This initiative aims to enhance the Teaching-Learning process, ultimately benefiting students by equipping them with the necessary skills for successful placements.</p>	<p>Action Plan: During nearly every faculty meeting, communicating the ARCIT policies and emphasizing that each faculty member is required to register for at least one NPTEL course annually, completing it with at least an ELITE certification. Implementing a tracking system on a semester basis to assess compliance and participation among the faculty.</p>	
<p>Short term goal 2: Faculty without a Ph.D. are mandated to register for a Ph.D. program in their respective research areas and publish</p>	<p>Action Plan: In almost every faculty meeting, promoting and encouraging faculty without a Ph.D. to pursue doctoral studies and motivating those with a Ph.D. to actively submit research</p>	

<p>papers in SCOPUS and SCIE indexed journals. Those already enrolled in Ph.D. programs are required to complete their degrees within the stipulated time, demonstrating a substantial number of publications in indexed journals. Additionally, faculty with Ph.D. qualifications are expected to actively submit research proposals to various funding agencies.</p>	<p>proposals to diverse funding agencies.</p>	
<p>Short term goal 3: These two objectives are expected to yield positive outcomes, fostering quality research across all Computer Science and Engineering (CSE) specializations. They create an environment where faculty members are well-equipped to propose impactful research projects to a variety of funding agencies.</p>	<p>Action Plan: In nearly every faculty meeting, emphasizing and promoting awareness of ARCIT policies, with a particular focus on the significance of quality indexed publications and opportunities for research funding. Considering the collaborative effort with faculty from NIT Warangal, there is a plan to submit research proposals to various funding agencies.</p>	

Long Term Goal(s) of the Department	Committee Remarks
<p>Long term goal(s):</p> <ol style="list-style-type: none"> 1. Enhance the quality of teaching by acquiring course certifications from NPTEL and undergoing industry training. This approach aims to instill high-quality teaching practices, ensuring students are well-prepared for securing placements with competitive packages. 2. Enhancing the quality of teaching through re-skilling and up-skilling initiatives from NPTEL and Industry is expected to foster a fresh perspective among faculty members, potentially leading to impactful research endeavors. This, in turn, can attract funding from various agencies. <p>Action Plan:</p> <ol style="list-style-type: none"> 1. Motivating faculty to pursue NPTEL certifications, particularly in the programming domain and across all Computer Science and Engineering (CSE) specialization domains. Implementing regular tracking mechanisms to monitor and assess these activities. 2. Promoting all faculty members with Ph.D. qualifications to actively submit research proposals to a range of funding agencies. 	

IV. Portray department distinctness

Distinctiveness of the Department	Committee Remarks
<p>Distinctiveness of the Department:</p> <ol style="list-style-type: none"> 1. Several faculty members have acquired Topper and Monitor certifications from SWAYAM-NPTEL. 2. Two faculty members possess TalentNext and Advanced TalentNext certifications, while another faculty member holds CISCO and Advanced CISCO certifications. Additionally, one faculty member from the department is pursuing an advanced certification in AIML from IIT Madras. 3. Currently, two faculty members are recipients of funding. 4. Faculties with Ph.D. qualifications in various Computer Science and Engineering specializations, including CVIP, AIML, IoT, and Networks, are integral members of the department. 5. The department is equipped with an Industrial Internet of Things (IoT) laboratory. 	

V. Previous Academic Audit remarks and Action Taken Report

Previous Academic Audit remarks	Action Taken Report	Committee Remarks
<p>May be provided details such as specifications and make of major equipment, list of experiments, list of common equipment/tools, date of purchased, maintenance, calibrations etc (Sl. No 2 to 3, Page No. 4)</p>	<p>We are maintaining all the mentioned points as part of each individual laboratories which includes specifications and make of major equipment, list of common equipment/tools, date of purchase, and Lab Manual Record Book (LMRB) for each subject which contain the following information.</p> <ul style="list-style-type: none"> • List of faculty who contributed in preparing LMRB • Preface • Institute Vision and Mission • Department Vision and Mission • POs, PSOs, and PEOs • Course Syllabus (including KSQs) • Instructions to Students • Rubrics for Continuous Internal Evaluation (CIE) • List of Programs to be performed <p>Each faculty maintain CIE for each laboratory subject which contain the following items.</p> <ul style="list-style-type: none"> • List of experiments 	

Previous Academic Audit remarks	Action Taken Report	Committee Remarks
	<ul style="list-style-type: none"> • List of students • Rubrics for CIE • Lab Experiments Calendar • Make-up labs calendar • CIE Day-Wise • Average CIE 	
Purpose and justification not clear (Sl. No 6, Page No 4)	CSE (Networks) department bifurcated from CSE in the month of Jan 2022. So the department established new laboratories as per norms.	
Summary of stake holder's survey, typical suggestions made and resolutions may be included (Sl. No 8 to 10, Page No 4-5)	B19 admitted batch passed out in 2023 for this department	
Workload is not uniform; it should be standardized as per AICTE/UGC norms (Sl. No. 13 to 14 Page No 5)	Complied (following as per norms)	
Summary or conclusions of assignment evaluations to be included for better interpretation (Sl. No. 20 Page No 5)	At present we are evaluating the assignments of the students manually and posting the marks in CMS.	
Action taken is incomplete (Sl. No. 21 to 27 Page No 6)	We have incorporated ATR from BET report	
Summary, conclusions and suggestions of student performance should be included for better understanding to parents (Sl. No. 28 Page No 6)	We are sending the progress of the students after MSE1 and after MSE2 to their parents.	
Object of remedial classes and reaching the objective not clear (Sl. No. 29 Page No 6)	Classes conducted for slow learners	
No correlation with resolutions, actions, realizations and ATR is incomplete (Sl. No. 30 to 34 Page No 6-7)	Complied	
Encourage for latest ICT tools and customized department specific exclusive ICT tools or software's may be procured (Sl. No. 38 Page No 7)	We are conducting viva using Kahoot and Quizizz online tools during laboratory sessions.	
Conference papers may be excluded from course research papers (Sl. No. 40 Page No 7)	Complied (Excluded Conference paper as part of CRP)	

Previous Academic Audit remarks	Action Taken Report	Committee Remarks
Faculty wise publication number should be included and 16 faculty published 9 Scopus journal papers- Needs improvement (Sl. No. 48 Page No 8)	Complied (Publications in SCIE/Scopus are increased)	
Proposed projects 0, submitted-0, approved-0, Serious efforts are required for preparing better proposals as per respective funding agency thrust areas, send project proposals to outside experts for review and suggestions before submission, think out of box to improve. (Sl. No. 52 Page No 9)	In every department faculty meeting Head, encouraging the entire faculty to submit funding proposals to various funding agencies and also insisting on ARCIT policy of the institute.	
<ul style="list-style-type: none"> • Professor and Associate Professors shortage as per AICTE cadre ratio • Faculty pursuing PhD- Details of registration date, reasons for not completing, research progress since then, type of research, etc are to be included for proper audit • Rewrite best practices, swoc, short- and long-term goals to reflect your dept achievements, future targets and should be more realistic (Restrict for one page only) 	On behalf of department Head submitting cadre ratio deficiency to administration on regular basis to recruit as per norms.	
GRADES-NUTSHELL	Research activities Average(D) Academics Very Good(B) Extension activities Average(D)	
Suggestions/Recommendations		
Previous Academic Audit remarks	Action Taken Report	Committee Remarks
Capacity building activities to be improved	Faculty encouraged to attend FDPs, Workshops, Industrial Training, etc., on regular basis.	
Focus on Research enabled New Teaching methods	In our Teaching Learning Process (TLP), we actively incorporate Course Patents (CP) and Course Research Papers (CRP) by distributing them to students. We encourage students to summarize the content of both CP	

Previous Academic Audit remarks	Action Taken Report	Committee Remarks
	and CRP, and each student is required to submit their summary. Additionally, a mandatory question (1 Mark) related to CP and CRP is included in the MSE1 and MSE2 examinations, respectively.	
Improve industry component in curriculum	Following the approval by the Board of Studies (BoS), we forward the scheme and syllabus to various IT industries, seeking their input. This collaborative effort aims to enhance the syllabus, ensuring it aligns with industry requirements and contributes to improved placement opportunities for our students.	
Expert lecture series should be introduced for inviting experts from industry/research institutes/funding agency to get awareness of latest research requirement/thrust areas	We are collaborating with industry professionals to serve as adjunct faculty members, conducting classes for students in a selected subject during each semester. This initiative aims to provide students with real-world insights and practical knowledge from experienced individuals in the industry.	
Exclusive Students' innovation journal should be launched to improve research environment		
Organize exclusive FDPs on basic research, research stimulation and motivation, best research, innovations, technology etc	We consistently organize Faculty Development Programs (FDPs) and workshops to facilitate ongoing improvement for both faculty and students. This initiative underscores our commitment to fostering continuous learning and enhancement within the academic community.	
Arrange faculty and students frequent industrial visits		
Incentives/privileges will be given to faculty and students to patentable, saleable (viable), and useful research		
Realization of MOUs are mandatory	We are actively endeavoring to establish connections with industries and nationally significant institutions through Memorandums of Understanding (MoUs), and this effort has yielded several advantages: 7. Organizing expert lectures and Faculty Development Programs (FDPs) for both faculty and students. 8. Collaborating on research funding proposals to further	

Previous Academic Audit remarks	Action Taken Report	Committee Remarks
	advance our research initiatives.	
Discourage paid journals, paid patents, paid books, paid awards, etc	We advocate against faculty and students submitting their research work to paid journals, acquiring paid patents, publishing in paid books, and pursuing paid awards. This approach is aligned with our commitment to promoting open access and avoiding unnecessary financial burdens associated with academic publications and recognitions.	
Research Committee under the chairmanship of Principal may be constituted to review regularly all ongoing research activities and to review project proposals before sending		
Make sure plagiarism should be less than 10%	<p>The evaluations of assignments, special assignments, Seminar reports, Mini Project reports, Major Project reports, and publications will happen as shown below.</p> <p>UG Seminars -- 40%</p> <p>UG Mini Projects -- 30%</p> <p>UG Major Project -- 24%</p> <p>PG Seminar -- 30%</p> <p>PG Dissertation -- 24%</p> <p>PhD Thesis -- 10%</p> <p>Conference Paper -- 10%</p> <p>Journal Paper -- 10%</p> <p>Research Project -- 8%</p> <p>Book Chapter & Others - 10%</p>	
Few lectures may be arranged on IQAC and its role in academics to motivate faculty and all others concerned		
Mock IQAC audit may be conducted internally before commencement of actual		
Need to improve core placements as it indicates your research achievements		
Engineering Entrepreneurs, Startups, may be encouraged		
Audit format may be modified as per the requirement of AICTE, NBA, ABET, QS, NIRF		

Previous Academic Audit remarks	Action Taken Report	Committee Remarks
etc		
Extension activities need to improve	We are actively involved in extension activities such as Skill Development Programs, Industry Collaboration, Technology Transfer, Continuing Education Programs, Extension Lectures and Entrepreneurship Development Programs	
Need to focus on tutorial classes	We conduct tutorial classes weekly once with a specified set of problems individually for Batch 1 and Batch 2 for each subject.	
Research Targets may be fixed to faculty members for improving research contributions	At the institute level, we have an ARCIT (Academic Research, Consultancy, and Industry Training) policy, wherein specific targets are assigned to each faculty member.	
Maintain faculty ratifications at 80%		
Establish R&D as per UGC and AICTE regulations/guidelines		
Standardize faculty workload to avoid non uniformity and demotivation		

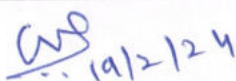



 (Name & signature of the Department Academic Coordinator with Date)

Dr. S. Narasimha Reddy S. M. Reddy
 (Name & signature of the Head of Department with Date) 26/02/2024

Overall Suggestions / Remarks by Department Academic Audit Committee Members:

S. No.	Areas / activities to be focused for improvement
1	Certificate programs and value-added courses shall be conducted to improve the career development opportunities for students
2	Innovation and Incubation culture needs to be inculcated among the students through I2RE activities
3	Strong alumni base needs to be established to motivate students to develop a culture of entrepreneurship.
4	Efforts may be made to drive students towards higher studies by providing coaching in national level examinations such GATE, GRE, etc.
5	Students shall be encouraged to participate in national/international level technical/cultural events
6	Research output by a way of quality publications, external funded research projects and consultancy needs to be strengthened
7	Faculty have to utilize the seed grant provided by the Institute and work towards publications/projects
8	Teachers shall be motivated to pursue PhD

Department Academic Audit Committee Members:

S. No.	Name of the Member	Designation	Signature with date
1	Prof. C Venkatesh Coordinator, IQAC, KITSW	Chairperson	 19/2/24
2	Prof. T. Srinivasulu Dean, FoET, KU, Warangal	External Member	
3	Prof. A. Venu Gopal Professor (HAG), Dept. of Mechanical Engineering, NIT Warangal	External Member	 19-2-2024
4	Prof. M. Komal Reddy Registrar, KITSW	Member	
5	Prof. K. Venu Madhav Dean, Academic Affairs, KITSW	Member	 17/2/24
6	Prof. M. Veera Reddy Dean, R&D, KITSW	Member	

PART-D
DEPARTMENT BEST PRACTICES, SWOC, DISTINCTIVENESS, SHORT TERM & LONG TERM GOALS

Best Practices of the Department	Committee Remarks
<ol style="list-style-type: none"> 1. Monitoring the students through class teachers. 2. Conducting SIP/UHV-II more effectively with internal resources 3. Integrating Innovation Incubation Research and Entrepreneurship and OBE into course teaching. 	

II. SWOC Analysis

SWOC Analysis of the Department	Committee Remarks
<p>Strength</p> <ol style="list-style-type: none"> 1. 95% of existing faculty are possessing doctorate degree 2. Average teaching experience of the faculty is more than 13 years 3. Faculty are updating their knowledge by attending continuous education programmes like FDPs, Workshops, Refresher Courses, Certification courses of NPTEL, MOOCS and etc.,. 	
<p>Weakness:</p> <ol style="list-style-type: none"> 1. Less number of submissions for research projects. 2. Research guidance. 3. Book Publications 	
<p>Opportunities:</p> <ol style="list-style-type: none"> 1. Scope for improvement for more number of research quality publications with qualified faculty 2. Scope for conducting FDPs and Workshops. 3. Encouraging faculty to acquire more online certification courses like MOOCS, SWAYAM, NPTEL courses etc 	
<p>Challenges:</p> <ol style="list-style-type: none"> 1. Majority of admitted students are with rural background 2. Admitted students are not subjected to concept base education at +2 level (Intermediate). 	


III. Short term and Long Term Goals of the department

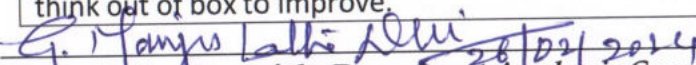
Short Term Goals of the Department		Committee Remarks
Short term goal 1: To minimize the detention of students because of shortage of attendance	Action Plan: Motivating the students to maintain 95% attendance.	
Short term goal 2: To minimize the detention due to backlogs in first year subjects.	Action Plan: 1. By conducting more effectively the special remedial classes beyond college hours. 2. Providing additional Assignments.	
Long Term Goal(s) of the Department		Committee Remarks
1. Quality Research and Research projects Action Plan: 1. Motivating the students through teachers, counsellors and informing parents in a view to achieve the goals specified above. 2. Conducting Remedial classes and Makeup classes. 3. Encouraging the faculty to apply for more research projects. 4. All faculty should publish SCI/Scopus/WoS Journals 5. Organizing workshops to excel students faculty to on descriptive technologies of Industry 4.0		

IV. Portray department distinctness

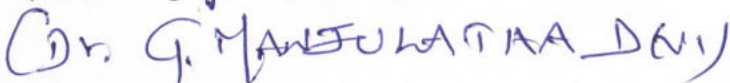
Distinctiveness of the Department	Committee Remarks
Distinctiveness of the Department: 1)Experienced and dedicated faculty.faculty members actively engaged in teaching and research activity. 2)Faculty with degrees from NITs 3)The department also takes pride of its update syllabi. The department regularly takes feedback from the students. 4)The Department is recognized for its outstanding teaching and learning activities towards quality Education 5)The department is organizing Seminars, Symposia, Workshops, Orientation program and Hands on Training to help the students to update their knowledge and skills. 6)The main objective of the department is to prepare the students with power of reasoning and Mathematical conceptual knowledge in solving industrial related problems and to upgrade the Mathematics Education with Global perspectives	

V. Previous Academic Audit remarks and Action Taken Report

Previous Academic Audit remarks	Action Taken Report	Committee Remarks
Conference papers may be excluded from course research papers	All the faculty are informed not include conference papers as course research papers. Quality research papers are included in the AY2022-2023	
Faculty wise publication number should be included and 20 faculty published 16 Scopus journal papers- Needs improvement	Faculty wise publications provide as per NAAC format	
May be provided details such as specifications and make of major equipment, list of experiments, list of common equipment/tools, date of purchased, maintenance, calibrations etc	Details of equipment with cost and date of purchase provided.	
Action taken is incomplete	Action taken reports on CCMs, DAACs, CRMs, CRCs completely prepared	
No correlation with resolutions, actions, realisations and ATR is incomplete	ATRs prepared completed	
Encourage for latest ICT tools and customized department specific exclusive ICT tools or software's may be procured	Faculty Integrating Innovation Incubation Research and Entrepreneurship culture and OBE into their course teaching with latest ICT tools	
Proposed projects NIL, submitted-NIL, approved-NIL, Serious efforts are required for preparing better proposals as per respective funding agency thrust areas, send project proposals to outside experts for review and suggestions before submission, think out of box to improve.	Faculty are doing collaborative research with engineering faculty	


 (Name & signature of the Department Academic Coordinator with Date)





(Name & signature of the Head of Department with Date)



Overall Suggestions / Remarks by Department Academic Audit Committee Members:

S. No.	Areas / activities to be focused for improvement
1.	Department shall take efforts to start PG program
2.	Publish more research papers in quality journals
3.	Department may offer a Minor program in Mathematics and Computing
4.	Faculty have to put efforts to utilize the seed grant provided by the Institute and work towards publications/projects

Department Academic Audit Committee Members:

S. No.	Name of the Member	Designation	Signature with date
1	Prof. C Venkatesh	Coordinator, IQAC, KITSW	 19/2/24
2	Prof. TSrinivasulu	Dean, FoET, KU, Warangal	
3	Prof. A. Venu Gopal	Professor (HAG) Dept of Mechanical Engineering NIT Warangal	 19.2.2024
4	Prof. Komal Reddy	Registrar, KITSW	
5	Prof. K. Venumadav	Dean, Academic Affairs, KITSW	 17/2/24
6	Prof. M. Veera Reddy	Dean, R&D, KITSW	

PART-D
DEPARTMENT BEST PRACTICES, SWOC, DISTINCTIVENESS, SHORT TERM & LONG TERM GOALS

I. Best Practices of the department Short Term and Long Term Goals:

Best Practices of the Department Short Term Goals		Committee Remarks	
Short term goal 1: To minimize the detention of students because of shortage of attendance.	Action Plan: Motivating the students to maintain 100% attendance.		
Short term goal 2: To minimize the detention due to backlogs in first year subjects	Action Plan: 1. By conducting more effectively the special remedial classes beyond college hours. 2. Providing additional Assignments.		
Long Term Goal of the Department			
Long term goal: 1. To attend the state where zero detention will be there due to a. shortage of attendance b. backlogs 2. To establish research laboratories in the department by getting funds from the funding Agencies.			
Action Plan: 1. Motivating the students through teachers, counsellors and informing parents in a view to achieve the goals specified above. 2. Conducting Remedial classes and Makeup classes. 3. Encouraging the faculty to apply for more research projects			

II. SWOC Analysis

SWOC Analysis of the Department	Committee Remarks
<p>Strengths:</p> <ol style="list-style-type: none"> 100% of existing faculty possess a doctorate degree. The average teaching experience of the faculty is more than 14 years. Faculty are updating their knowledge by attending continuous education programmes like FDPs, Workshops, Refresher Courses, STTPs, Certification courses of NPTEL, MOOCS. More than 350 papers were published by the faculty in national/international journals and conferences. Most of the faculty are involved in administrative works(NCC Officer, NSS Officer, PRO). 	
<p>Weakness:</p> <ol style="list-style-type: none"> Less number of submissions for research projects. Department Research Centre 	
<p>Opportunities:</p> <ol style="list-style-type: none"> Scope for improvement for more number of research quality publications with qualified faculty Scope for conducting FDPs and Workshops. Encouraging faculty to acquire more online certification courses like MOOCS, SWAYAM, NPTEL courses etc. 	
<p>Challenges:</p> <ol style="list-style-type: none"> Majority of admitted students are with rural background and of Telugu medium. Orienting students towards OBE system as the admitted students are not properly trained on skill based education at +2 level (Intermediate). 	

III. Short term and Long Term Goals of the department

Short Term Goals of the Department		Committee Remarks
<p>Short term goal 1: Short term goal 1: To minimize the detention of students</p>	<p>Action Plan: Motivating the students to maintain 100% attendance</p>	

because of shortage of attendance.		
Short term goal 2: To minimize the detention due to backlogs in first year subjects.	Action Plan: 1. By conducting more effectively the special remedial classes beyond college hours. 2. Providing additional Assignments.	
Short term goal 3: Analytical and experimental skills to be developed and executed in the higher semester.	Action Plan: Faculty Manual introduced to enhance the individual attention.	

Long Term Goal(s) of the Department	Committee Remarks
<p>Long term goal(s): 1.To bridge the gap between industry and academia.</p> <p>Action Plan: To create awareness related to industry relevant knowledge.</p>	

IV. Portray department distinctness

Distinctiveness of the Department			Committee Remarks
1. Department of Physical Sciences has been preparing NBA-Criteria-8 and providing to all departments of institute.			
Name of the Faculty	Designation	Additional Duty as	
Dr. D. Prabhakara Chary	Associate Professor	Public Relations Officer(PRO)	
Dr. H. Ramesh Babu	Associate Professor	ISTE Chairman, KITSW student chapter	
Dr. CH. Sateesh Chandra	Associate Professor	NSS program officer, KITSW	
Capt. Dr. M. Ranadheer Kumar	Assistant Professor	NCC Associate officer, KITSW	
Dr.K.Rajendra Prasad	Assistant Professor	Faculty Incharge, examinations	

V. Previous Academic Audit remarks and Action Taken Report

Previous Academic Audit remarks	Action Taken Report	Committee Remarks
S. No.2 Page no.3: May be provided details of major equipment specifications, list of equipment, list of common equipment/tools, date of purchased, maintenance, calibrations, etc.	Specifications of major equipment, list experiments, date of purchased, maintenance, etc.. provided in File no. IV C_2	
S. No.6, Page no.3: Purpose and justification not clear	Equipment purchased for Synthesis and characterization of nanomaterials	
S. No.13 Page no.4: Workload is not uniform; it should be standardized as per AICTE/UGC norms	Workload allotted to faculty as per AICTE / UGC norms. (File No. IV C_13	

S. No.20 Page no.4: Summary or conclusions of assignment evaluations to be included for better interpretations	Posting of assignment marks into CMS and uploading in course web regularly as per assignment schedule.	
S. No.21 – 27, Page no.4-5: Action taken is incomplete	Action taken report prepared. Extra assignments given to the students.	
S. No.29 Page no.5: Object of remedial classes and reaching the objective not clear.	To improve the pass percentage remedial classes were conducted.	
S. No.38 Page no.6: Encourage for latest ICT tools and customized department specific exclusive ICT tools or software may be provided.	Using ICT tools (Projector, laptops, digital writing pads, pointers)	
S. No.40 Page no.6: Conference papers may be excluded from course research papers	By excluding conference papers journal publications submitted.	
S. No.48 Page no.8: Faculty wise publication number should be include and number of publications to be improved	Faculty wise publication number included and one DST-WoS project sanctioned.	
S. No.51 Page no.8: Details not provided	Faculty not received awards.	

Dr. H RAMESH BABU

(Name & signature of the Department Academic Coordinator with Date)





Dr. D PRABHAKARA CHARY

(Name & signature of the Head of Department with Date)

Overall Suggestions / Remarks by Department Academic Audit Committee Members:

S. No.	Areas / activities to be focused for improvement
1.	Department shall take efforts to start PG program
2.	Publish more research papers in quality journals
3.	Department may offer a Minor program in Mathematics and Computing
4.	Faculty have to put efforts to utilize the seed grant provided by the Institute and work towards publications/projects

Department Academic Audit Committee Members:

S. No.	Name of the Member	Designation	Signature with date
1	Prof. C Venkatesh Coordinator, IQAC, KITSW	Chairperson	 19/2/24
2	Prof. T Srinivasulu Dean, FoET, KU, Warangal	External Member	
3	Prof. A. Venu Gopal Professor (HAG), Dept. of Mechanical Engineering, NIT Warangal	External Member	 19.2.2024
4	Prof. Komal Reddy Registrar, KITSW	Member	
5	Prof. K. Venumadhav Dean, Academic Affairs, KITSW	Member	 12/2/24
6	Prof. M. Veera Reddy Dean, R&D, KITSW	Member	

PART-D
DEPARTMENT BEST PRACTICES, SWOC, DISTINCTIVENESS, SHORT TERM & LONG TERM GOALS

I. Best Practices of the department Short Term and Long Term Goals:

Best Practices of the Department	Committee Remarks
<ol style="list-style-type: none"> 1. Continuous Evaluation System of students with 60:40 Scheme 2. Conduction of Annual Technical Fest to students for skill development Sumshodhini- 21. 3. Regular practice of referring Business newspaper by Students and Faculty and organizing Panel discussion in the classrooms with students 4. Curriculum designed giving weight age to Research and Case Studies and inclusion of presentations in the Internal Evaluation. 	

II. SWOC Analysis

SWOC Analysis of the Department	Committee Remarks
Strengths: <ul style="list-style-type: none"> • Reputed Institution in the State and Country level. • Faculty members in the Department either hold Doctorates degree or are pursuing PhD. • Quality of Teaching Learning Process with the inclusion of I²RE in the syllabus. • MBA program curriculum is regularly updated taking inputs from stakeholders 	
Weakness: <ul style="list-style-type: none"> • Telugu medium students and rural students are unable to cope with the dynamic nature of management studies. • Lack of flexibility in admitting International students to MBA program. • Impediments in providing industrial internships due to weak industrial presence 	
Opportunities: <ul style="list-style-type: none"> • Scope to introduce BBA programme • Increasing trend of engineering students choosing MBA for higher education. • Partnership with NITW to conduct programmes. • Scope for Research activity and Research centre recognition. 	
Challenges: <ul style="list-style-type: none"> • To place all the eligible students • Heterogeneity in the class becomes a challenge as students are from rural background. 	•

III. Short term and Long Term Goals of the department

Short Term Goals of the Department		Committee Remarks
Short term goal 1: To update the syllabus.	Action Plan: To redesign PRR 24 syllabus based on present industry requirements.	
Short term goal 2: To upskill teachers and students	Action Plan: To conduct Reasoning and aptitude Classes for MBA final year students	
Short term goal 3: Incorporating Entrepreneurship culture among the students.	Action Plan: To incorporating Entrepreneurship culture among the students by taking the help of I2RE cell of the college.	
Long Term Goal(s) of the Department		Committee Remarks
<p>Long term goal(s): To establish Achieve Organizational Excellence.</p> <p>Action Plan</p> <p>To achieve excellence through implementing the curriculum change and develop professional skills.</p>		

IV. Portray department distinctness

Distinctiveness of the Department	Committee Remarks
<p>Distinctiveness of the Department:</p> <p>The Department ha a committed team of faculty with 7 PhD. Holders. The MBA programme reinforces the employability skills of students and makes them industry ready. The course has been carefully designed to balance the theoretical knowledge with practical skills, applicable to their work and beneficial to their development. The need of the hour is to re-energize and rejuvenate the students through innovation, incubation, research and entrepreneurship (I²RE).</p> <p>It is aimed at apprising students of all relevant issues that occur across functioning of Corporate, Government, Non-Government Organizations in different business domains like Marketing, Human Resource Management, Operations, International Business, Finance and Information Technology. The students can choose the specializations offered by the institute to develop specific and unique skill sets for an exciting future in the corporate world. Case study which is a pedagogically constructive method of teaching is also a part of the</p>	

curriculum. Itemphasizes on student engagement and makes them explore the areas of decision making, problem solving and developing specific skill and knowledge.

V. Previous Academic Audit remarks and Action Taken Report

Previous Academic Audit remarks	Action Taken Report	Committee Remarks
Stake holders survey not submitted.	The Department has taken stake holders survey.	
Work load is not uniform it should be standardized.	Work load has been standardized.	
ATTR 's are incomplete	ATTR' have been completed.	
Encourage for latest ICT tools	PPT's are being used for class room teaching.	
Conference papers may be excluded from CRP	Conference papers have been excluded for CRP.	
Faculty publications need to be improved	The faculty are trying to improve their publications	
Serious efforts are to be made for preparing better proposals	Faculty are making serious efforts to prepare better proposals	
Sl.No 69 incomplete data	T&P data has been completely furnished	
Professor Shortage Ratio	Not yet fulfilled	
Reasons for not Completing Ph.D	Mr.K.Jaipal has completed his PhD	
Rewrite Best Practices in one page only	Best Practices have been rewritten	

Signature

(Name & signature of the Department Academic Coordinator with Date)

Signature

(Name & signature of the Head of Department with Date)

Overall Suggestions / Remarks by Department Academic Audit Committee Members:

S. No.	Areas / activities to be focused for improvement
1	The curriculum shall be revised by introducing contemporary courses
2	Certificate/ value added courses have to be conducted regularly by inviting industry experts
3	Publications are limited to one or two faculty members. More focused efforts are required in publishing papers in quality research journals such ABDC / SCI / Scopus
4	Efforts are to be made in getting sponsored research projects and industrial consultancy
5	MoUs are to be worked out with industry and academic institutions and activities are to be conducted on a regular basis in order make the students exposed to the latest developments
6	A dedicated computer lab shall be established in the department
7	Interactions with the Industry experts or Alumni have to be arranged on a regular basis to provide career counselling and opportunities to the students
8	Department has to put in more efforts to invite companies for campus placements.
9	Students shall be encouraged to participate in national / international competitions
10	The faculty of the department are to be pro-active and get trained in NAAC activities and also in maintaining files appropriately
11	Department should take initiative in offering a minor program in Management to B.Tech. students

Department Academic Audit Committee Members:





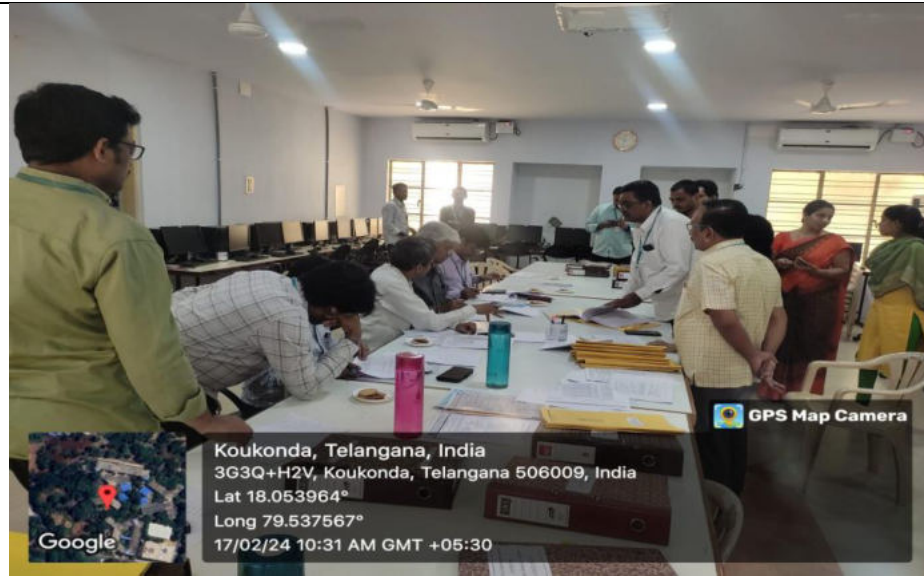
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PHOTO GALLERY



AAA Committee Members



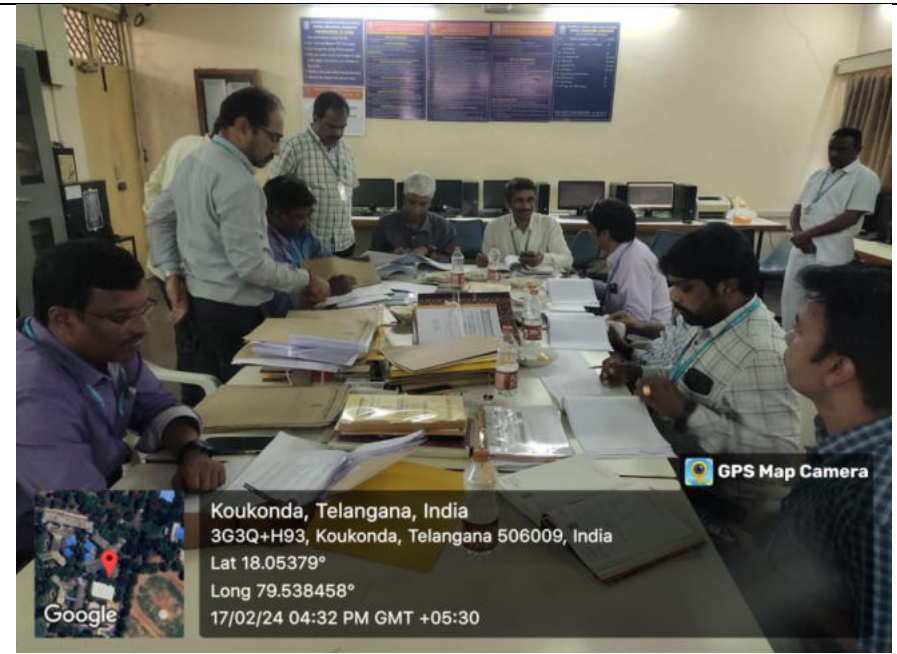
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e. Venkatesh
Coordinator, IQAC