

K.RAMAKRISHNAN COLLEGE OF ENGINEERING



Permanently Affiliated to Anna University Chennai and Approved by AICTE, New Delhi ISO 9001:2015 Certified Institution, Accredited with 'A' grade by NAAC Samayapuram, Trichy, Tamilnadu

ACADEMIC AUDIT AND IMPLEMENTATION ACTIVITIES

Academic Year 2022-2023





CONTENTS

S.No.	DETAILS
1.	Academic Audit
2.	Schedule of the Academic Audit
3.	Overall Assessment Report with ATR
4.	Academic Audit Mark Analysis Report
5.	Future Plan



ACADEMIC AUDIT

- To promote self reflection among all departments being audited.
- To promote self improvement measures among all departments being audited.
- To conduct quality checks on different activities undertaken in all departments to meet expected outcomes.
- To promote adoption of best practices.



Scope Of Academic Audit

	The audit team will assess the
1.	Design and development activities in curriculum.
2.	Teaching-learning Process.
3.	Student learning assessment process and student engagement programs.
4.	Activities involved in developing learning outcomes.
5.	The quality of resources and general ambience from perspective of meeting the learning outcome.
6.	Assess the quality and quantity of research outcomes.
7.	Opportunities and scope of Improvements in the major functional areas.
8.	Outreach programmes conducted by the college.



Academic Audits In KRCE

- 1. IQAC and Academic Affairs conducts department level academic audit three times every Academic year.
 - Internal Audit: 02 (ODD & EVEN SEM); External Audit: 01
- 2. The Audit team will visit and conduct onsite evaluation through check of documents and interaction. The audit report will be prepared based on the academic audit check list. The Audit report analysis is done by the Principal in discussion with Department Heads and IQAC Members. Suggestions and appreciations are recorded.
- 3. The suggestions and Appreciations are informed to the department faculty members by the HoD's and action taken report is submitted to IQAC.
- 4. Consolidated audit summary and Action taken report is presented during IQAC meeting in the presence of Principal, Department Heads & IQAC Committee members.
- 5. Recommendation of quality enhancements are discussed and initiated during the IQAC meeting.



Schedule of the External Academic Audit 2022-2023

S.No	Department	Date & Time	Auditor's Name
1.	COMPUTER SCIENCE ENGINEERING	20.02.23 09.00am-04.00 pm	Dr M. Brinda, Associate Professor, Department of CSE, National Institute of Technology, Tiruchirapalli - 620015
2.	ELECTRONICS AND COMMUNICATION ENGINEERING	20.02.23 09.00am-04.00 pm	Dr.R.Pandeeswari, Associate Professor, Department of ECE, National Institute of Technology, Tiruchirappalli - 620 015
3.	ELECTRICAL AND ELECTRONICS ENGINEERING	21.02.23 09.00am-04.00 pm	Dr. S. Senthil Kumar Associate Professor, Department of EEE, National Institute of Technology, Tiruchirappalli - 620 015



Schedule of the External Academic Audit (Contd..)

S.No.	Department	Date & Time	Auditor's Name
4.	MECHANICAL ENGINEERING	21.02.23 09.00 am -04.00 pm	Dr. R.Jeyapal, Professor Department of Production Engineering, National Institute of Technology, Tiruchirappalli - 620 015
5.	INFORMATION TECHNOLOGY	22.02.23 09.00 am -04.00 pm	Dr. B. Janet, Assistant Professor Grade I, Department of Computer Applications, National Institute of Technology, Tiruchirappalli - 620 015
6.	COMPUTER SCIENCE AND BUSINESS SYSTEMS	22.02.23 09.00 am -04.00 pm	Dr V. Lavanya, Asst.Prof. Department of MBA, National Institute of Technology, Tiruchirapalli 620 015
7.	ARTIFICIAL INTELLIGENCE AND DATA SCIENCE	23.02.23 09.00 am -04.00 pm	Dr.E. SIVASANKAR, Associate Professor, Department of CSE, National Institute of Technology, Tiruchirapalli 620 015



Schedule of the External Academic Audit (Contd..)

S.No	Department	Date & Time	Auditor's Name
8.	ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING	23.02.23 09.00 am -04.00 pm	Dr.E. SIVASANKAR, Associate Professor, Department of CSE, National Institute of Technology, Tiruchirappalli - 620 015
9.	MASTER OF BUSINESS ADMINISTRATION	24.02.23 09.00 am-04.00 pm	Dr. V. Lavanya, Assistant Professor, Department of MBA, National Institute of Technology, Tiruchirappalli - 620 015
10.	SCIENCE & HUMANITIES	13.03.23 09.00 am-04.00 pm	Dr. S.Velmathi, Professor, Department of Chemistry, National Institute of Technology, Tiruchirappalli - 620 015

AUDIT ASSESSMENT DETAILS (Parameters Stipulated by NBA & NAAC)

CRITERIA 1	Vision, Mission and Program Educational Objectives	
CRITERIA 2	Program Curriculum and Teaching Learning Process	
CRITERIA 3	Course outcome and Program Outcome	
CRITERIA 4	Students Performance	
CRITERIA 5	Faculty Information and Contribution	
CRITERIA 6	Facilities and Technical Support	
	General files	



Criteria 1: Vision, Mission and Program Educational Objectives

- 1. Vision and Mission of the Department and Institute.
- 2. Program Educational Objectives (PEOs)
- 3. Where and how the Vision, Mission and PEO's are published and disseminated among stakeholders
- 4. Process for defining the Vision and Mission of the Department and PEO's of the program
- 5. Establish consistency of PEOs with Mission of the Department.



CRITERIA 1: VISION, MISSION AND PROGRAM EDUCATIONAL OBJECTIVES

Audit Report (Department Wise)

S.No	Department	External Audit Member Suggestions	Action Taken
1.	COMPUTER SCIENCE ENGINEERING	➤ PEO justification needed.	> Justification for PEO is mentioned.
2.	ELECTRONICS AND COMMUNICATION ENGINEERING	•Defined and Justified	NIL
3.	ELECTRICAL AND ELECTRONICS ENGINEERING	•Defined and Justified	NIL
4.	MECHANICAL ENGINEERING	Periodic review of PEO, PO, Vision & Mission have to be conducted	➤ Review meeting for periodic review of PEO, PO, Vision & Mission will be planned and executed.
5.	INFORMATION TECHNOLOGY	➤ Curriculum book must be given to students	➤Once all the semester syllabus are finalized and approved, then curriculum book will be printed and distributed to students.



Criteria 1: Vision, Mission and Program Educational Objectives Audit Report (Department Wise) (Contd..)

6.	COMPUTER SCIENCE AND BUSINESS SYSTEMS	NIL	NIL
7.	ARTIFICIAL INTELLIGENCE AND DATA SCIENCE	1. Mini projects can be tied up with any of the programming core subjects.	
8.	ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING	1. Mini projects can be tied up with any of the programming core subjects.	
9.	MASTER OF BUSINESS ADMINISTRATION	1. Vision to be modified by considering society both in the institute and in the department. PEO – Planning, decision making risk taking to be added, Life long learning to be reframed as continuous learning.	to respective Higher



Criteria 1: Vision, Mission and Program Educational Objectives Audit Report (Department Wise) (Contd..)

10.	SCIENCE & HUMANITIES (MATHEMATICS)	 Specific PEO's are required. Graduation Pass percentage can be mentioned as higher or maximum in the objective. 	 Branch wise specific PEO's are included. Graduation pass percentage mentioned in objective has been changed as maximum.
	PHYSICS	1. Specific PEOs and PSOs are required for every department	1. Branch-wise specific PEOs are included.
	CHEMISTRY	1. Program Education Objectives should be specific and relevant to the supporting department which offers the course for parent department.	1. PEO is modified related to parent department wise.



1.	Structure of curriculum
2.	Components of curriculum
3.	Curricular gap analysis
4.	Approval by BoS
5.	Approval by Academic Council and Governing Body
6.	Value Added Courses
7.	NPTEL Courses
8.	Elective and Open Courses
9.	Employability/Entrepreneurship/ Skill development courses
10	Stakeholder feedback on curriculum, design and review of syllabus (From Faculty, Alumni, Employers and students)
11.	Process followed to improve Teaching Learning Process Academic Calendar/Event calendar Work load, Class Timetable, Lesson Plan Log book, Course File, Pedagogical initiatives, Methodologies to support weak students and encourage bright students, Conduct of experiments and assessment (Observation in lab), Student feedback in teaching learning process



	Criteria 2: Program Curriculum and Teaching Learning Process (Contd.)
12.	Quality of End semester examination, internal semester question papers, assignment and evaluation, Periodical Test Question, Scheme of Evaluation, Question Bank, Previous University Questions, Content beyond Syllabus, Continuous Internal Assessment mark, Web portal Entry, Periodical CIA review Analysis, End Semester Result Analysis
13.	Quality of student projects
14.	Initiatives related to industry interaction, industry internship /summer training (Industry supported labs, industry involved program design and curriculum, industrial trainings, industrial/internship training)



Criteria 2: Program Curriculum and Teaching Learning Process Audit Report (Department Wise)

S.No	Department	External Audit Member Suggestions	Action Taken
1.	COMPUTER SCIENCE ENGINEERING	1. Industry supported laboratory can be established.	1. Communicated with two industries for laboratory establishment.



S.No	Department	External Audit Member Suggestions	Action Taken
2.		1. NPTEL COURSE-More faculty can be motivated to enroll in NPTEL courses.	1. All the faculty members have registered in NPTEL for April 2023 examinations.
	ELECTRONICS AND COMMUNICATIO N ENGINEERING	2. Stakeholder feedback on curriculum, design and review of syllabus-Feedback from employers can be included.	2. Feedback will be obtained on curriculum from employers through Placement cell.
			3. Innovative teaching is
		3. Pedagogical initiatives- Consolidated report can be prepared and included.	implemented and report is updated.
			4. Blooms taxonomy is followed to
		4. Quality of End semester	prepare the CIA question paper.
		examination, internal semester	Question paper will be maintained in
6/23,	/2023	question papers-End semester question paper to be maintained.	the department.



S.No.	Department	External Audit Member Suggestions	Action Taken
3.	ELECTRICAL AND ELECTRONICS ENGINEERING	 The Stakeholder Feedback can be collected from all the students. Faculty feedback can be collected by subject wise. In academic calendar common event can be planned for all departments in a common day. Student counseling can be done through CAMU software. 	 Feedback collected from all students. Considered. Upcoming semesters it will be implemented Under discussion, next academic calendar year it will be implemented. Under discussion



S.N o.	Department	External Audit Member Suggestions	Action Taken
	MECHANICAL	 Expected to have courses on Al, Machine learning and Data analytics as electives. More open electives have to be offered. Smart class room to be installed for effective teaching and learning process. Feedback from stakeholders to be linked with curriculum and follow up to be done. To strengthen the industry tie-up. 	 Elective courses and credits for students to be introduced in the next curriculum. Plan for implementing smart class room is in progress Feedback from alumni and stakeholders to be considered for syllabus framing More MOU to be planned in future. A MOU with High Energy Batteries was signed on 24.03.2023.



S	S.No	Department	External Audit Member Suggestions	Action Taken
5	·	INFORMATION TECHNOLOGY	 Suggested to print PO, PEO, vision and mission in log book. CO attainment to be added in log book. Observation and Record note book can be combined. Course file and logbook can be combined. CO attainment details can be included in CIA review analysis 	CO attainment details are included in the CIA Review Analysis
/2	6.	COMPUTER SCIENCE AND BUSINESS SYSTEMS	1. Application oriented questions can be given for assignment.	1. Faculties are insisted to give application oriented questions for assignment.

6/2



Criteria 2: Program Curriculum and Teaching Learning Process(Contd..)

S.No	Department	External Audit Member Suggestions	Action Taken
7.	ARTIFICIAL INTELLIGENCE AND DATA SCIENCE	 Operating systems Lab may be included in the 4th semester along with corresponding theory subject. Students Feedback question format can be improved. Internal question format can be improved (30-40% problem solving questions can be encouraged). Academic calendar may be displayed in college website. MOU with Tier-1 software service providers can be explored. 	 If it's possible, Operating Systems lab can be included in upcoming regulation. IQAC format feedback format followed. Given suggestion will be considered in future. Given suggestion will be followed with respect to internal exam question paper. Academic calendar is displayed in college website after getting approval from the higher authorities. MOU with Tier-1 software service providers can be explored in future.



S.No	Department	External Audit Member Suggestions	Action Taken
8.	ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING	 Operating systems Lab may be included in the 4th semester along with corresponding theory subject. Students Feedback question format can be improved. Internal question format can be improved (30-40% problem solving questions can be encouraged). Academic calendar may be displayed in college website. MOU with Tier-1 software service providers can be explored. 	Systems lab can be included in upcoming regulation.

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MYCHER THICAIDS EDICATE	Department	External Audit Member Suggestions	Action Taken
9.	MASTER OF BUSINESS ADMINISTRATION	 Subject Title to be reframed for SWC, IRLW, OM and Summer Training Digital signature from BOS Members Value added courses during semester holidays Electives to be floated among students Academic calendar consolidation Workload consolidation, Pedagogical initiatives –ICT, Case studies, Activity based learning, supporting weak students-counseling, mentor mentee meetings, Application and real time oriented assignments topics to be improved, Application oriented and case studies can be asked in the continuous internal test question papers 	 implemented in the next BOS Meeting Informed to BOS members Will be considered in the coming semester holidays Will be considered in the upcoming semester Completed Completed



S.No.	Department	External Audit Member Suggestions	Action Taken
10.	SCIENCE & HUMANITIES (MATHEMATICS)	It is suggested to take the NPTEL courses related to core subject.	All faculty members have registered in the core subject during the academic year 2022-23.
	PHYSICS	 There is no curriculum gap in the syllabus and it is verified. Subject-related NPTEL courses can be chosen. It is followed in the Physics department. Action taken report can be recorded. Open elective courses can be chosen by students. 	 The same Curriculum and syllabus will be followed. All the faculties suggested to pursue Physics related NPTEL courses. Action taken report is recorded. Will be implemented .



S.No.	Department	External Audit Member Suggestions	Action Taken
	CHEMISTRY	1. It is suggested to take the NPTEL courses related to subject and it will corrected for future. It is suggested to offer open elective course to the students.	1. All faculty members have registered in the core subject during the academic year 2022-23
	ENGLISH	Staff members have to do NPTEL courses	Staff members are insisted to do NPTEL courses.



Criteria 3 : Course outcome and Program Outcome

- PO, PEO and CO
- 2. CO Mapping with PO
- 3. Assessment tools (Direct and Indirect)
- 4. Course data sheet
- 5. Innovative Teaching Methods



Criteria 3: Course outcome and Program Outcome

S.No	Department	External Audit Member Suggestions	Action Taken
1.	COMPUTER SCIENCE ENGINEERING	1. CO – PO attainment calculation is to be defined.	1. CO – PO attainment calculation is defined.
2.	ELECTRONICS AND COMMUNICATIO N ENGINEERING	1. Innovative Teaching Methods-Guest lecture can be arranged and report may be included in the file.	1. Guest lecture is arranged from reputed institutions for analytical papers to enhance the knowledge of the students
3.	ELECTRICAL AND ELECTRONICS ENGINEERING	1. Documents are properly maintained and evidenced.	NIL
4.	MECHANICAL ENGINEERING	1. Award for best teaching faculty.	1. Award for best teaching faculty will be given in annual day
6/2	23/2023	K.RAMAKRISHNAN COLLEGE OF ENGINE	EERING 27

27

Criteria 3: Course outcome and Program Outcome

S.IVU.	Department	External Audit Member Suggestions	Action Taken
5.	INFORMATION TECHNOLOGY	 Mapping of PO, PEO and CO to be added in all files. PO and CO attainment to be included in course file. 	 CO attainment is included in the Course file. PO and PEO attainment will be added after passing out of first batch
6.	COMPUTER SCIENCE AND BUSINESS SYSTEMS	Documented	
7.	ARTIFICIAL INTELLIGENCE AND DATA SCIENCE	1. Some more innovative teaching methods can be recommended.	1. Will be implemented in forthcoming semester.
8.	ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING	1. Some more innovative teaching methods can be recommended.	1. Will be implemented in forthcoming semester
9.	MASTER OF BUSINESS ADMINISTRATION	1. PO, CO mapping implementation to be improved	1. Work in progress



Criteria 3: Course outcome and Program Outcome

S.No.	Department	External Audit Member Suggestions	Action Taken
10.	SCIENCE & HUMANITIES (MATHEMATICS)	Documents verified and found correct. No suggestion is given.	
	PHYSICS	Documents verified and found correct. No suggestion is given.	
	CHEMISTRY	Documents verified and found correct. No suggestion is given.	
	ENGLISH	Documents verified and found correct. No suggestion is given.	



1.	Students Strength		
	Student Profile		
	Students participation in co- curricular activities		
	Students participation in extracurricular activities		
	Mini project/Projects		
	Industrial/Field Visit/ Field work/In-plant Training		
	Participation in competitive examinations		
	Internships, Online courses		
2.	Achievements and awards		
3.	Students receiving financial assistance from the Management		
4.	Graduation details		
5.	Placement details		
6.	Pursuing higher studies after graduation		



	Criteria 4: Students Performance (Contd)		
7.	Students Drop-out details		
8.	Students as Entrepreneurs		
9.	Students Scholarships		
10.	Student Publications		
11.	a) Patent applied/published /granted		
	a) Students participation in other states		



Criteria 4: Students Performance Academic Audit Report (Department Wise)

S.No	Department	External Audit Member Suggestions	Action Taken
1.	COMPUTER SCIENCE ENGINEERING	NIL	NIL
2.	ELECTRONICS AND COMMUNICATION ENGINEERING	1.Mini project/Projects-Outcomes maybe included for projects 2.Students receiving financial assistance from the Management-Summary can be prepared and proof can be validated alongside summary.	 Mini project Report with outcome will be enclosed from this year. Report of the financial assistance from management will be included.
		3.Graduation details, scholarship and Placement details- Valid proof must be maintained.	3.Account details of students receiving scholarship are attached. Appointment Letter of alumni is maintained academic year wise. Graduands details from university will be updated.



S.No	Department	External Audit Member Suggestions	Action Taken
3.	ELECTRICAL AND ELECTRONICS ENGINEERING	1.Sufficient weightage have to be given for NPTEL courses in academics, scores gained through NPTEL can be transferred as credit. 2. Event organized by the department, consolidated list has to be maintained. 3. In financial assistant to student file, required circular copies also have to be maintained. 4. In dropout students file, year wise dropout can be maintained as list showing percentage of dropout also a chart can be prepared portraying the same. 5. Separate files can be maintained for patent with respect to students and faculties. 6. A list can be prepared show casing the status of patent (ie. applied / filed / published / granted) and the same has to be maintained year wise.	 Implemented Initiated. Initiated. Initiated. Implemented Implemented Implemented



S.No	Department	External Audit Member Suggestions	Action Taken
4.	MECHANICAL ENGINEERING	 Concentrate on PG admission strength More participation on Competitive exams is required. Internships can be made compulsory. Encourage students for higher studies. Need to go beyond patent publication and to commercialization 	 PG admission strength to be increased at forth coming years. More awareness on higher studies and competitive exams were given to students by several study centers. Students approached IPR cell for conversion of their projects to patents.
5.	INFORMATION TECHNOLOGY	1. Identify the Student entrepreneurs.	1. Entrepreneurship awareness programmes are organized to identify student entrepreneurs .
6.	COMPUTER SCIENCE AND BUSINESS SYSTEMS	1.To focus on maximum student participation activities.	1. Under progress
7.	ARTIFICIAL INTELLIGENCE AND DATA SCIENCE	1. Motivate the students for higher studies and competitive exams.	1. Under progress



S.No	Department	External Audit Member Suggestions	Action Taken
8.	ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING	1. Motivate the students for higher studies and competitive exams	1. Under progress
9.	MASTER OF BUSINESS ADMINISTRATION	 Students profile – inclusion of Parents mail id, and Profession for company connect for placement. 	Will be followed in the next academic year
		• External participants via clubs and committees can be improved, and for department regular functional activities students committees can be utilized.	Clubs and Committees are formed



S.No.	Department	External Audit Member Suggestions	Action Taken
10.	SCIENCE & HUMANITIES (MATHEMATICS)	Documents verified and found correct. No suggestion is given.	
	PHYSICS	Documents verified and found correct. No suggestion is given.	
	CHEMISTRY	Documents verified and found correct. No suggestion is given.	
	ENGLISH	Documents verified and found correct. No suggestion is given.	



Criteria 5: Faculty Information and Contribution

1.	Faculty Strength , Student Faculty Ratio, Faculty Profile
	List of Ph.D. holders
	List of staff Pursuing Ph.D.
	Faculty Recruitment
	Recruitment of Supporting Staff
	Visiting Professor
	Competency in Academic
	Faculty awards and achievements
	Publications in Journals(SCI & Scopus)
	Publications in Conference
	Publication in Books/Chapters
	Google Scholar Citations and h index
	Ph.D Guidance and DC members
	On-going Research Projects
	Research funds received
2.	Consultancy
3.	Patents



Criteria 5: Faculty Information and Contribution

4.	MoU Details
5.	Seed Money for research
6.	Seminar / Conference/ Workshops /FDP/STTP/ Hands on Training Organized
7.	Events organized in the department with geo tagged photos
8.	Number of workshops/seminars conducted on Research methodology, Intellectual Property Rights(IPR), entrepreneurship, skill development
9.	Collaborative activities with other institutions/ research establishments/industry for research and academic development of faculty members and students
10	Faculty Participation in FDP/STTP/Seminar/Workshop
11.	Sponsorship offered by Management for attending Conference/FDP/STTP/ Seminar/Workshop
	Faculty as resource person



Criteria 5: Faculty Information and Contribution Audit Report (Department Wise)

S.No	Department	External Audit Member Suggestions	Action Taken
1.	COMPUTER SCIENCE ENGINEERING	Collaborative activities with reputed institutions can be explored	 In collaboration with AWS Academy, AWS Certified Cloud Practitioner course was conducted to understand core offerings of the Amazon AWS Cloud from 28/02/2023 – 4/03/2023 In collaboration with ICT academy and Cognizant foundation a Centre for Women Empowerment (CWE) is established from 16/03/2023 and 80 Pre final year girl students are nominated for the course "Microsoft Data Analyst Associate".

MACES S	Department	External Audit Member Suggestions	Action Taken
2.	ELECTRONICS AND COMMUNICATION ENGINEERING	 1.Visiting Professor- As per norms file should be maintained. 2.Publications in Journals and conferences-Separate files should be maintained. 3.Collaborative work- Mail communication can be attached until receiving original documents 	 Steps are taken to recruit industry person as Visiting professors. Separate file is maintained Mail communication of consultancy and collaborative work will be maintained.
3.	ELECTRICAL AND ELECTRONICS ENGINEERING	 In Competency matrix file proof of faculty training can be maintained to show case the improvement in the competency level of every faculty. Separate file for faculty achievement and awards respectively need to be maintained. Publications in journals and conferences, list of count year wise may be maintained separately. Faculty qualification needs to be improved. Apply more Research funding proposals. Centre of excellence can be improved. Core placement can be improved. Book chapter publication need to be improved. 	 Considered. Initiated Considered and implemented Under discussion Considered & Initiation taken Initiation taken Steps taken Initiated
6/2	23/2023	K.RAMAKRISHNAN COLLEGE OF ENGINEERIN	G

S.No	Department	External Audit Member Suggestions	Action Taken
4.	MECHANICAL ENGINEERING	 Cadre ratio has to be maintained Plan for research consultancy Have some MoU's with academic institutes for credit transfer in higher studies. Collaborative workshops/conferences can be organized. 	 It is planned for maintaining the cadre ratio. Several industries to be approached for consultancy works. Collaborative workshops to be planned in future.
5.	INFORMATION TECHNOLOGY	Summary of the events have to be added in to the file.	Summary is inluded in the file
6.	COMPUTER SCIENCE AND BUSINESS SYSTEMS	More programs were suggested to be organized	Symposium was organized in 23 rd March 2023
7.	ARTIFICIAL INTELLIGENCE AND DATA SCIENCE	Motivate the faculties to go outside as a resource person.	Faculties motivated to go outside as a resource person.



S. No	Department	External Audit Member Suggestions	Action Taken
8.	ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING	1. Motivate the faculties to go outside as a resource person.	1. Faculties motivated to go outside as a resource person.
9.	MASTER OF BUSINESS ADMINISTRATION	 List of staff pursuing Ph.D to be improved. Publication and attending conferences by faculty member to encouraged. Collaborative activities related to academics to be initiated 	 Yet to register Work in progress Yet to initiate

Sec. 1			
MONES TOROUGH EUGATON	Department	External Audit Member Suggestions	Action Taken
10.	SCIENCE & HUMANITIES (MATHEMATICS)	1. Suggest to apply seed money for research.	1. Seed money (Rs.18,64,569) for research fund applied in SERB-SURE.
	PHYSICS	 No. of Ph.D. holders in the Physics department – 5 No. of faculty members pursuing Ph.D. – 1 Suggested to apply for minor projects. Encouraged to apply for Ph.D. guideship. Apply for Patents Suggested to apply for seed money for research. Organize Seminar / Conference / Workshops / FDP / STTP/ Hands-on Training in the department 	 One Ph.D. holder has been recruited Faculty pursuing Ph.D. has submitted the thesis A minor project for Rs. 5 Lakhs is applied for ICSSR One faculty has Ph.D. guideship, eligible faculty members are directed to apply for the guideship 3 patents were obtained. Suggested to apply for seed money for research. Rs.5,05,000/- is approved as seed money for the establishment of an R&D lab for the Physics department. Seminar organized – 2
	CHEMISTRY	 It is suggested to apply Research funds minor projects. Ph.D guideship and also suggested to get seed money to do research 	 Research proposals have been applied to the various funding agencies by the faculty members. Guideship will apply for the academic year 2022-23



	Criteria 6: Facilities and Technical Support
1.	Department infrastructure details (Labs and classrooms)
	Computing facility details
	Equipment's Purchase & maintenance
	Safety measures in Laboratories
	Project laboratory/facilities
	Lab Manual
	Lab Master Record
	Student Lab Record Note
	Department infrastructure details (Labs and classrooms)
	Computing facility details



Criteria 6 : : Facilities and Technical Support Audit Report (Department Wise)

S.No	Department	External Audit Member Suggestions	Action Taken
1.	COMPUTER SCIENCE ENGINEERING		-
2.	ELECTRONICS AND COMMUNICATION ENGINEERING	-	-
3.	ELECTRICAL AND ELECTRONICS ENGINEERING	-	-
4.	MECHANICAL ENGINEERING	-	-
5.	INFORMATION TECHNOLOGY	-	-
6.	COMPUTER SCIENCE AND BUSINESS SYSTEMS	-	-
7.	ARTIFICIAL INTELLIGENCE AND DATA SCIENCE	Research laboratory can be initiated.	Research laboratory will be initiated in future.
8.	ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING	Research laboratory can be initiated.	Research laboratory will be initiated in future.
9.	MASTER OF BUSINESS ADMINISTRATION	Department of Faculty Meeting – circulars to be added and to be done in files.	Implemented



Audited GENERAL FILES

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1.	Academic Audit and action taken report		
2.	Department Faculty meeting		
3.	Class committee meeting		
4.	Course committee meeting		
5.	Circle meeting		
6.	Parents -Teachers meeting		
7.	Department meeting with Principal		
8.	Book requirement meeting		
9.	General Feedback from Eminent Person		
10.	Feedback on infrastructure/facility		
11.	Student Exit Survey		
12.	Alumni Survey		
13.	Budget		
14.	Alumni Details		
15.	ISO audit details		
16.	National / International Days Celebrated		

General File Documents are updated and maintained properly till date according to Audit report

(Mar 8)

Academic Audit Mark Analysis Report

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CRITERIA	PROGRAM LEVEL CRITERIA	MARKS AWARDED FOR EVALUATION (KRCE)	NBA NORMS TIER-I	NBA NORMS TIER-II
Criteria 1	Vision, Mission and Program Educational Objectives	50	50	60
Criteria 2	Program Curriculum and Teaching Learning Process	100	100	120
Criteria 3	Course outcome and Program Outcome	100	175	120
Criteria 4	Students Performance	100	100	150
Criteria 5	Faculty Information and Contribution	200	200	200
Criteria 6	Facilities and Technical Support	80	80	80
	General files VERIFICATION done for Continuous Improvement	100	75	50
6/22/2022	Total Marks	730 HNAN COLLEGE OF	780	780

6/23/2023 ENGINEERING

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		EXT	ERNAL	ACADE	MIC A	UDIT R	EPOR	r - ODI	SEM !	2022 -	- 23		
SI. No.		Criteria	Max. Marks	CSE	ECE	EEE	MECH	AI&DS	AI&ML	CSBS		T S&H	МВА
1	Prog	n, Mission and ramEducational ctives	50	48	50	50	46	50	50	50	27	38	45
2	and T	ram Curriculum Teaching-Learning	100	98	96	86	87	70	77	88	90	65/75	94
3		se Outcomes and ramOutcomes	100	97	98	98	96	81	81	100	85	100	40
4 Students Performance		100	100	100	64	87	61	34	70	60	51/65	75	
5 Faculty Information and Contributions		200	171	188	115	180	130	131	195	184	118/195	90	
6	Facili Supp	ities and Technical ort	80	80	80	77	80	56	56	80	65	80	70
7	Gene	ral Files	100	90	100	87	98	64	64	70	65	73/85	95
		Total	730	684	712	577	674	512	493	653	576	525/650	509
NE NOF	BA RMS	% ge of Sc	ore	93.69	97.53	79.04	92.32	70.13	67.53	89.45	78.90	80.76	69.7
>=75%	6	GREEN - YES	Y	7	7	5	7	2	3	5	4	6	5
>=60% < 75%	and	BLUE - CONCERN	С	0	0	1	0	5	3	2	2	1	0
>=40% < 60%		YELLOW - WEAKNESS	W	0	0	1	0	0	0	0	1	0	2
<40%		RED - DEFECIENC	Y D	0	0	0	0	0	1	0	0	0	0



FUTURE PLANS (Department Wise)

S.No	Department	External Audit Member Suggestions
1.	COMPUTER SCIENCE ENGINEERING	•Industry tie up with Labs. •To start Research centre
2.	ELECTRONICS AND COMMUNICATION ENGINEERING	•To apply for R&D projects, Consultancy and Patents
3.	ELECTRICAL AND ELECTRONICS ENGINEERING	•Improve the core placements •To get Research Grants •To create Centre of Excellence Lab
4.	MECHANICAL ENGINEERING	•NEP Implementation •Industry Institute Interaction
5.	INFORMATION TECHNOLOGY	•Industry Institute Interaction



FUTURE PLANS (Department Wise)

S.No	Department	External Audit Member Suggestions
6.	COMPUTER SCIENCE AND BUSINESS SYSTEMS	•Next level of up gradation in all academic activities
7.	ARTIFICIAL INTELLIGENCE AND DATA SCIENCE	•Industry Institute Interaction
8.	ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING	•Industry Institute Interaction
9.	MASTER OF BUSINESS ADMINISTRATION	To organize maximum number of student driven activities

THANK YOU!