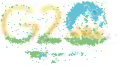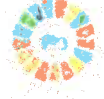# ADHIYAMAAN COLLEGE OF ENGINEERING
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Internal Quality Assurance Cell

Ref: ACE/IQAC/2023-24/IQAC Meeting / 18   **08.02.2024**

Meeting Notice

34th meeting of IQAC (Internal Quality Assurance Cell) is scheduled on Thursday, 15th February 2024, at the Conference Room, at 11:30 A.M. All the members are invited to attend the meeting.

Agenda:

1. Reviewing the implementation of the previous meeting's discussion
2. Discussion on the Dr. Radhakrishnan Committee Report on Reforms in Accreditation and Ranking
3. Review on AQAR 2022-23
4. Preparedness for NBA Peer Team Visit
5. Autonomous Extension
6. Admission Strategies
7. IQAC Initiatives
8. Any other

Principal / IQAC Chairperson

PRINCIPAL
Adhiyamaan College of Engineering (Autonomous)
HOSUR - 635 130
Krishnagiri (Dt.), Tamil Nadu.

Copy to
1. All Deans
2. All HoDs
3. Office

34th IQAC Meeting (15/02/2024)

Time Schedule:

11:30AM	Welcome	Principal-IQAC Chairperson
11:35AM	Industrial, Alumni, Introduction	Self-Introduction
11:40 AM	**IQAC Presentation:** • Reviewing the implementation of the previous meeting's discussion • Discussion on the Dr. Radhakrishnan Committee Report on Reforms in Accreditation and Ranking • Review on AQAR 2022-23 • Preparedness for NBA Peer Team Visit • Autonomous Extension • Admission Strategies • IQAC Initiatives	Dr. K. Sivakumar-Coordinator IQAC
12:15 PM	Curricular aspects and Teaching Learning process	Dr. Venkatesan Selvam-Dean Academics
12:25 PM	Research, Innovation and Consultancy	Dr. S. Suresh Babu-Dean R&D
12:35 PM	Innovation & Extension	Dr. R. Dhanasekaran-Dear Industry Relations
12:45 PM	Accreditation & Ranking	Dr. Santhi HoD/EEE
12:55 PM	Vote of Thanks	Dr. K. Sivakumar-Coordinator IQAC

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Internal Quality Assurance Cell

Glimpse of 34th IQAC Meeting

Hosur, Tamil Nadu, India
PV89+XXP, Kumudepalli, Hosur, Tamil Nadu 635109, India
Lat 12.717879°
Long 77.870432°
15/02/24 11:33 AM GMT +05:30

Hosur, Tamil Nadu, India
PV9C+86R, Kumudepalli, Hosur, Moranapalli, Tamil Nadu 635109, India
Lat 12.718108°
Long 77.870368°
15/02/24 11:33 AM GMT +05:30

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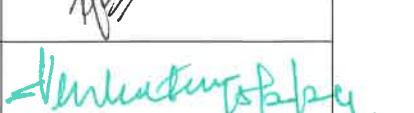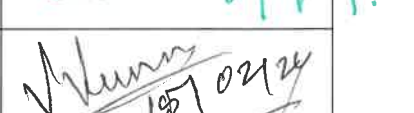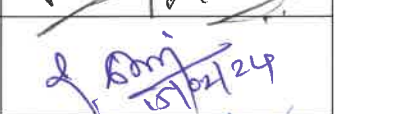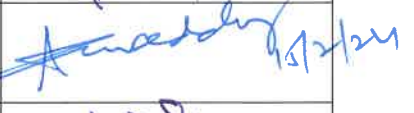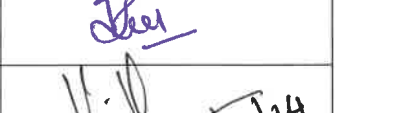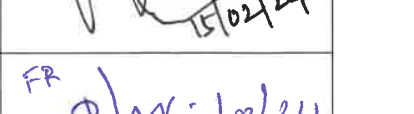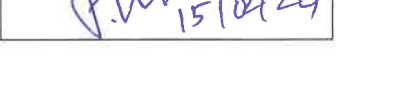
Internal Quality Assurance Cell

34th IQAC Meeting

Date: 15/02/2024
Venue: Conference Room-II
Time: 11:30 AM

S. No.	Name	Designation	Sign.
1	Dr. G. Ranganath	Principal/IQAC Chairperson	
2	Dr. T Lasya	Trustee	
3	Dr. V. Subbiah Bharathi	Director-AERI group of Institutions	
4	Dr. M. Jayakumar	Management Nominee	
5	Dr. P. Velsamy	Industrial Expert	
6	Mr. R. Chandrasekar	Alumni	
7	Dr. Venkatesan Selvam	Dean-Academics	
8	Dr. S. Suresh Babu	Dean-R&D	
9	Dr. R. Dhanasekaran	Dean-Industry Relations	
10	Mr. A. Krishnamohana Reddy	CoE	
11	Dr. J. Arivudai Nambi	HoD-AERO	
12	Dr. R. Seetha	HoD-Arch	
13	Dr. T. Udhayasurya	HoD-BME	
14	Dr. V. Manivasagan	HoD-BT	
15	Dr. Nagarajan	HoD-CHEM	

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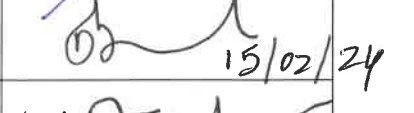Accredited by NAAC & NBA - UGC, New Delhi

Internal Quality Assurance Cell

S. No.	Name	Designation	Sign.
16	Dr. Baskar	HoD-Civil	
17	Dr. G. Fathima	HoD-CSE	
18	Dr. S. Sumathi	HoD-ECE	
19	Dr. Santhi	HoD-EEE	
20	Dr. D. Thilagavathi	HoD-IT	
21	Dr. S.V. Sureshbabu	HoD-Mech	
22	Dr. Dhanasekaran	HoD-MBA	
23	Dr. D. Swamydoss	HoD-MCA	
24	Dr. N. Uttham Kumar	HoD-English	
25	Dr. V. Prameela	HoD-Maths	
26	Dr. R. N. Jayaprakash	HoD-Physics	
27	Mr. Vijaya Ganesh	II BME (Student Nominee)	
28	Ms. Sona	II IT (Student Nominee)	
29	Dr. K. Sivakumar	HoD-Chemistry/IQAC Coordinator	

30. Dr. GA Devobalgan   Librarian

Principal/IQAC Chairperson

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Internal Quality Assurance Cell

Minutes of the Meeting

Date: 15/02/2024
Time: 11:30 AM - 1:00 PM
Venue: Conference Room-II

11:30 AM: Welcome and Introduction

- The Principal - IQAC Chairperson, welcomed all attendees and called the meeting to order

11:35 AM: Industrial Nominee & Alumni- Introduction

- Attendees introduced themselves.

11:40 AM: IQAC Presentation:

Dr. K. Sivakumar-IQAC Coordinator presented the following points:
- Reviewed the implementation progress of the previous meeting's discussions.
- Discussed the recommendations of the Dr. Radhakrishnan Committee Report on Reforms in Accreditation and Ranking.
- Reviewed the Annual Quality Assurance Report (AQAR) for the year 2022-23.
- Discussed the preparedness for the upcoming NBA Peer Team Visit.
- Reviewed the progress on Autonomous Extension initiatives.
- Presented strategies for Admission.
- Highlighted ongoing IQAC Initiatives.

12:15 PM: Curricular aspects and Teaching Learning process

- Dr. Venkatesan Selvam Dean-Academics, discussed curricular aspects and the teaching-learning process.

12:25 PM: Research, Innovation, and Consultancy

- Dr. S. Suresh Babu Dean R&D, presented updates on research, innovation, and consultancy activities.

12:35 PM: Innovation & Extension

- Dr. R. Dhanasekaran Dean IR, discussed innovation and extension efforts, particularly in collaboration with industries.

12:45 PM: Accreditation & Ranking

- Dr. Santhi (OBE In-charge) provided insights into accreditation and ranking processes, highlighting achievements and areas for improvement.

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Internal Quality Assurance Cell

12:55 PM Discussions & Deliberations

- Attendees deliberated on the preparations required for the upcoming visit by the National Board of Accreditation (NBA) Peer Team. Strategies were discussed to ensure compliance with accreditation standards and to showcase the institution's strengths effectively.
- Various admission strategies were presented and discussed to attract quality students to the institution.
- Attendees exchanged ideas on improving marketing efforts, streamlining admission processes, and enhancing outreach activities.
- Ongoing and proposed initiatives by the Internal Quality Assurance Cell (IQAC) were presented and discussed. Attendees provided feedback and suggestions for enhancing the effectiveness of these initiatives in ensuring quality enhancement and sustenance.

1:30 PM: Vote of Thanks

- Dr. K. Sivakumar, IQAC Coordinator, delivered the vote of thanks, expressing gratitude to all participants for their contributions and active participation.

The meeting adjourned at 1:35 PM.

IQAC Chairperson

PRINCIPAL
Adhiyamaan College of Engineering (Autonomous)
HOSUR - 635 130
Krishnagiri (Dt.), Tamil Nadu.

34th IQAC Meeting

15/02/2024

Content of Presentation

1. 33rd Meeting Action Taken Report
2. Discussion on the Dr. Radhakrishnan Committee Report on Reforms in Accreditation and Ranking
3. Review on AQAR 2022-23 (IQAC Initiatives)
4. Admission Strategies
5. Half yearly Report (AY 2023-24)
6. Action Plan for Q3

33rd IQAC Meeting-ATR

To Focus on Innovation/Extension activities/CDC Activities	Faculty Retention/Recruiting Faculties with Ph.D.	OBE Implementation	Alumni Engagement
• Dean-Industrial Relations (Dr. R. Dhanasekaran) • IIC • UBA • CDC	• 12 Doctorates at Various Level • 3 Faculties Completed their Ph.D. degree	• 5 UG +1 PG Programmes awaiting for NBA Team Visit (8/3/2024 to 10/3/2024)	• 50+ Lectures completed so far

Reforms in Accreditation and Ranking

Reforms in Quality Framework

- NAAC
- NAC
- NBA
- NIRF

→ A verifiable and secured centralized database

→ Technology-driven modern systems that could replace/minimize manual involvement

→ Mentoring and incentivizing schemes for raising their participation as well as accreditation levels, towards eminence, significance and global acclaim
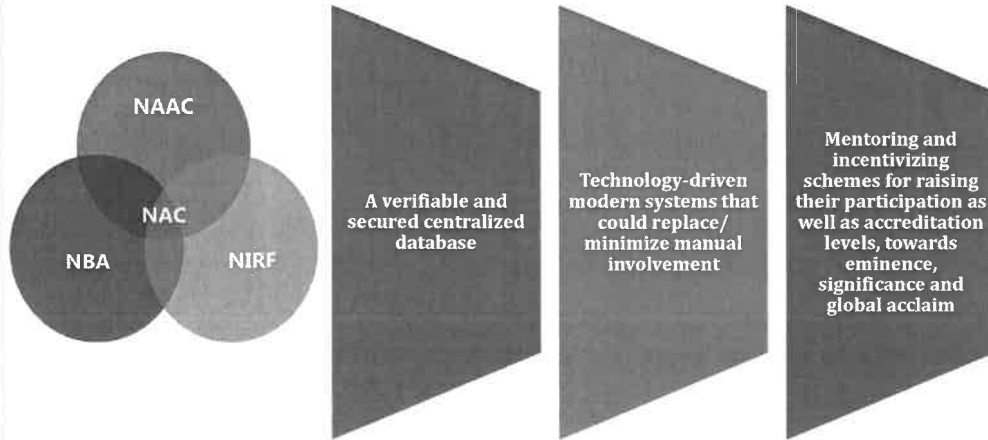
Proposed Framework

Binary Accreditation (envisioned in NEP 2020)	Adapted Binary Accreditation (proposed by this Committee)
Accredited	Accredited
Not Accredited	Awaiting Accreditation (i.e. on the threshold for Accreditation)
	Not Accredited (i.e. far below the standards for accreditation)

Proposed Framework

1. Curriculum
2. Faculty Resources
3. Learning and Teaching
4. Research and Innovation
5. Co-curricular and extra-curricular activities
6. Community Engagement,
7. Green Initiatives
8. Governance and Administration
9. Infrastructure Development
10. Financial Resources and Management

1. High-quality Technical and Vocational Education and Training (TVET)
2. PDP of teachers through the *Malviya* Mission Programme
3. Interdisciplinary approach/Collaborative approach
4. Involvement of students to connect with society in the context of curriculum
5. **Implementation of the G20 High-Level Principles on Lifestyles for Sustainable Development (LiFE) with appropriate weightage**

G20 2023 INDIA

Financial Resources and Management

Process
Seed money for teachers, students and researchers
Support for conferences, workshops, equipment, research etc. to students, teachers and researchers.
Amount spent on developing facilities, library, e-resources, labs, training teachers and staff for undertaking outreach activities
Amount spent on salary of teaching and non-teaching staff
Amount spent on Seminars/Workshops/Conferences
Expenditure on infrastructure augmentation
Amount received in donation and CSR funds
Revenue generated from outreach activities
Total amount spent on developing facilities, training teachers and staff for undertaking outreach activities

AQAR 2022-23

Annual Quality Assurance Report – AY 2022-23

Criterion	QnM	QlM	Total
I	85	65	150
II	190	110	300
III	104	46	150
IV	35	65	100
V	79	21	100
VI	44	56	100
VII	21	79	100
	558	442	1000
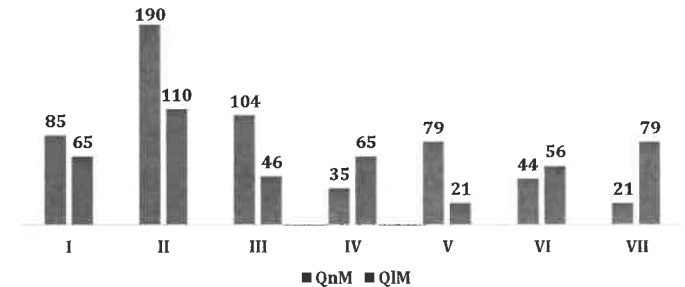
Curricular Aspects

Metrics	Weightage	Target	Attainment	Score	Grade Point
1.2.1	30	>=20%	29.20%	4	120
1.3.2	25	>=50	40	4	100
1.3.3	10	>=80%	100%	4	40
1.4.1	20	A	A	4	80
	85				340

CGPA: 4.00

Metrics	Benchmarks
% of New Courses Introduced	20%/Department
New Value added Courses	2/Department/Year
Internship	Mandatory

Market Research-Biomedical Engineering

- Biomedical Data Analytics
- **Bioinformatics and Computational Biology**
- Digital Health Technologies
- **Biomechanics and Robotics in Medicine**
- Neural Engineering
- Regenerative Medicine
- **Biomedical Imaging Techniques**
- Healthcare Cybersecurity
- **Biomedical Nanotechnology**
- Personalized Medicine
- **Bioethics and Regulatory Affairs**
- **Healthcare Entrepreneurship**

	Global Market Size in Billions		Indian Market Size in Billions		Global Job Opportunities
Biomedical Data Analytics	In 2022	In 2030	In 2022	In 2030	
	USD 37.15	USD 121.1	USD 5.7	USD 30.7	82.5 Million Jobs by 2025

Curriculum Enrichment

NEP 2020

Human Values and Ethics

1. ABC initiated
2. UHV-1 & UHV-2 Courses
3. Gender Courses
4. Indian Constitution
5. Heritage of Tamils (IKS)
6. Tamils and Technology (IKS)
7. UBA Club
8. SDG Committee

SUSTAINABLE DEVELOPMENT GOALS

UNNAT BHARAT ABHIYAN

Inclusion of Indian Knowledge System

- Indian Knowledge Systems and Traditions
- Indian Culture and Civilization
- Indian Vision for Human Society
- Indian Science, Engineering and Technology (Past, Present and Future)
- Indian Town Planning and Architecture
- Indian Mathematics and Astronomy
- Indian Aesthetics (including Music and Music Instruments)

Teaching-Learning and Evaluation

Metrics	Weightage	Target	Attainment	Score	Grade Point
2.1.1	10	>=90%	66.60%	1	10
2.1.2	10	>=80%	83.90%	4	40
2.2.2	15	20:01	15:01	4	60
2.4.1	15	>=90%	100%	4	60
2.4.2	25	>=70%	19.10%	0	0
2.4.3	5	>=15Y	7Y	2	10
2.4.4	5	>=80%	82%	4	20
2.5.1	20	<20	19	4	80
2.5.2	15	<1	0.06	4	60
2.6.3	20	>=90%	99.10%	4	80
2.7.1	50			3.8	190
	190				610

Metrics	Benchmarks
% of Admission	90%
Faculty Retention	100%

CGPA: 3.21

Assessment of learning levels of the students

parakh
Student's Learning Assessment Portal

Student Learning Assessment

Parakh Team (Faculty)

Rank

327

Out of 4400 Institutions

Overall Performance at Country Level

43.8
Performance

Institute Score : 43.8

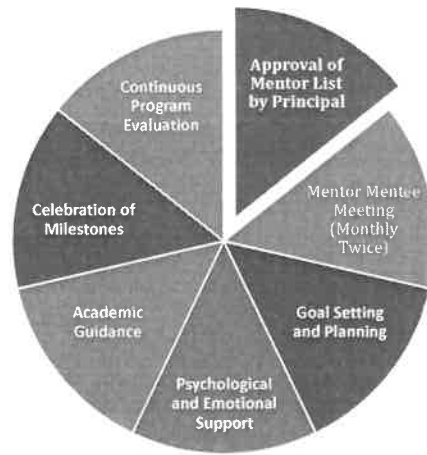|	
Country	15.3
State	13.6
District	28.6

- Civil Engineering
- Computer Science And Engineering
- Electrical Engineering
- Electronics And Communication Engineering
- Mechanical Engineering
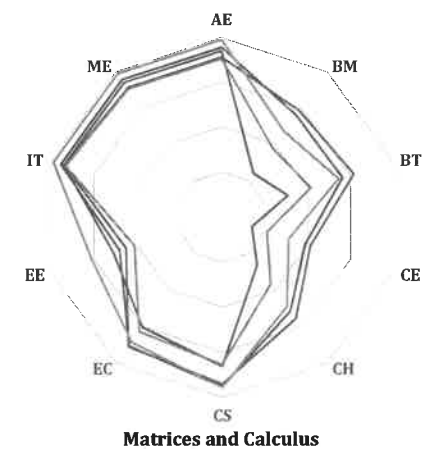
Mentor-Mentee Schemes
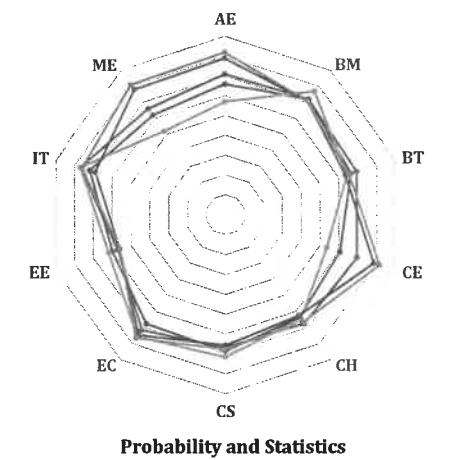

Frequency of Meetings: After every Cyclic Tests

Pie chart sections:
- Approval of Mentor List by Principal
- Mentor Mentee Meeting (Monthly Twice)
- Goal Setting and Planning
- Psychological and Emotional Support
- Academic Guidance
- Celebration of Milestones
- Continuous Program Evaluation

Periodical review of CO Attainment

—CO1 —CO2 —CO3 —CO4 —CO5

Matrices and Calculus

Probability and Statistics

Research, Innovations and Extension

Metrics	Weightage	Target	Attainment	Score	Grade Point
3.1.2	8	20L	0	0	0
3.1.3	6	5%	2%	2	12
3.2.1	5	>=50L	57.05	4	20
3.2.2	2	>=30%	1%	0	0
3.2.3	3	>=30%	7%	1	3
3.4.1	5	A	A	4	20
3.4.2	5	>=6	2	2	10
3.4.3	5	>=5	1.5	2	10
3.4.4	5	>=8	2	2	10
3.4.5	5	>=8	18	4	20
3.4.6	5	>=12	35	4	20
3.5.1	10	>=50	3	1	10
3.6.2	20	75	25	4	80
3.7.1	20	30	41	4	80
	104				327

Metrics	Benchmarks
Seed Money	1L/R&D Centre
National/ international fellowship	1 F/Department
Research Project	1/Faculty (Ph.D.)
Research Supervisor	All Ph.D.'s
Research Scholar	2/Supervisor
Publications	2/Faculty
Books/Conference	2/Faculty
Consultancy	1L/Department/Y
Extension Activity	1/Department

CGPA: 3.14

Extension Activities (30)

उन्नत भारत अभियान 2.0
UNNAT BHARAT ABHIYAN
(A MOVEMENT FOR A PROGRESSIVE INDIA)
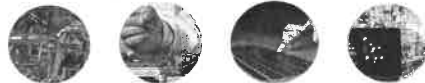
1. Thorapalli Agraharam
2. Perandapalli
3. Bukkasagaram
4. Alur
5. Muthali

TNRD

- Sustainable Agriculture Systems
- Rural Energy Systems
- Water Resource Management
- Artisans Industries & Livelihoods
- Basic Amenities (Infra., School Edu. & Services)

- UBA THEMES
- SUBJECT EXPERT GROUPS
- PROJECTS IMPLEMENTATION IN VILLAGE THROUGH INSTITUTIONS
- LOCALIZATION OF SUSTAINABLE DEVELOPMENT GOALS
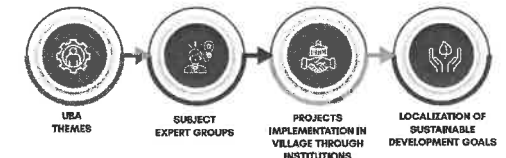
Infrastructure and Learning Resources

Metrics	Weightage	Target	Attainment	Score	Grade Point	
4.1.2	10	>=35%	42%	4	40	Total expenditure for infrastructure development and augmentation excluding salary
4.2.3	5	>=10%	2%	2	10	Total expenditure for purchase of books/e-books and subscription to journals/e-journals
4.3.2	10	05:01	03:01	4	40	
4.4.1	10	>=30%	32%	4	40	Total expenditure on maintenance of physical and academic support facilities excluding salary
	35				130	

CGPA: 3.71

Physical , Library & IT Infrastructure Facilities (30+10+15)

Teaching – learning Facilities

ICT – enabled facilities such as smart class, LMS

Cultural and sports activities

ILMS Facilities
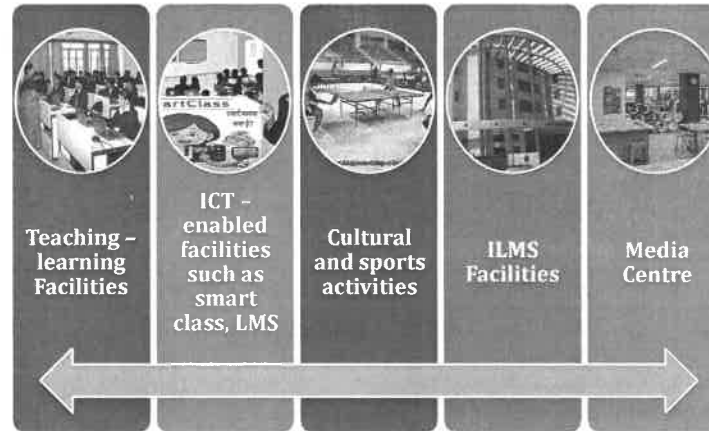
Media Centre

Metrics need to Focus
1. Smart Class rooms
2. LMS
3. Yoga Centre
4. Mixing equipment
5. Media studio
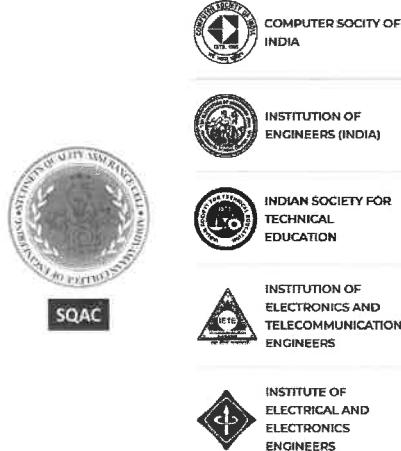6. Hardware and software for e-content development

Student Support and Progression

Metrics	Weightage	Target	Attainment	Score	Grade Point
5.1.1	11	>=60%	72%	4	44
5.1.3	8	A	A	4	32
5.1.4	5	A	A	4	20
5.2.1	20	>=80%	72%	3	60
5.2.2	10	>1%	2%	4	40
5.3.1	15	>=50	42	4	60
5.3.3	5	A	A	4	20
5.4.2	5	>=50L	2.17L	1	5
	79				281

CGPA: 3.55

Metrics	Benchmarks
Soft Skill	1 Event/Sem./Dept.
Language and communication skills	
Life skills	
Awareness of trends in technology	
Technical &Academic fest	1/Sem./Dept.
	1/Sem./Prof.Bodies

Student Support and Progression

COMPUTER SOCIETY OF INDIA

INSTITUTION OF ENGINEERS (INDIA)

INDIAN SOCIETY FOR TECHNICAL EDUCATION

INSTITUTION OF ELECTRONICS AND TELECOMMUNICATION ENGINEERS

INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS

SQAC

Coding Club - Work on programming skills through group projects, hackathons, or coding competitions. Learn languages like Python, Java, C++.

Electronics Club - Develop circuit design and embedded systems skills. Work on projects with Arduino, Raspberry Pi, etc.

3D Printing Club - Gain additive manufacturing skills. Use CAD to design objects and operate 3D printers.

Robotics Club - Design, build, and program robots for competitions or projects. Develop mechatronics abilities.

Energy Club - Build projects related to biofuels, fuel cells, solar panels, wind turbines, etc.

Governance and Leadership

Metrics	Weightage	Target	Attainment	Score	Grade Point
6.2.3	4	A	A	4	16
6.3.2	15	>=50%	18.1%	1	15
6.3.3	10	>=50%	40.7%	3	30
6.4.2	5	>=20L	0L	0	0
6.5.3	10	A	A	4	40
	44				101

e-governance:
- **Paperless Administration**
- **Administration including complaint management**
- **Finance and Accounts**
- **Student Admission and Support**

Financial Support to Faculties:
- **Financial support of Minimum of Rs. 5000/- per year per faculty will be considered**
- **150X5000=Rs.7,50,000**

FDP less than 5 days will not be considered

6.1.1 Sustained Institutional Growth

SDG Committee

1. Collaborate with all departments to integrate sustainability concepts and the SDGs into the curriculum.
2. Promote the development of courses, research projects, and academic programs that focus on sustainability.
3. Organize events, workshops, and seminars to promote sustainability awareness and engagement.
4. Facilitate partnerships for joint research projects, knowledge exchange, and collaborative events
5. **Foster student involvement in sustainability initiatives through clubs, events, and student-led projects**

Overall SDG-C serves as a catalyst for positive change and the advancement of sustainable practices throughout the institution.

Institutional Values and Best Practices

- Solar energy
- Biogas plant
- Wheeling to the Grid
- Sensor-based energy conservation
- Use of LED bulbs/ power efficient equipment
- Wind mill or any other clean green energy
- Rain water harvesting
- Bore well /Open well recharge
- Construction of tanks and bunds
- Waste water recycling
- Maintenance of water bodies and distribution system in the campus
- Green audit
- Energy audit
- Clean and green campus recognitions/ awards
- Environmental promotion and sustainability activities

CGPA: 4.00

Overall CGPA Analysis (AQAR 2022-23)

1	2	3	4	5	6	7
4.00	3.21	3.14	3.71	3.55	2.29	4.00
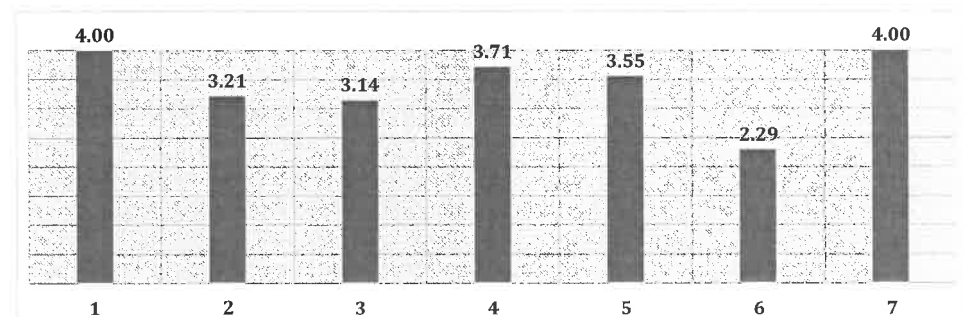
CGPA: 3.36

Admission Strategies
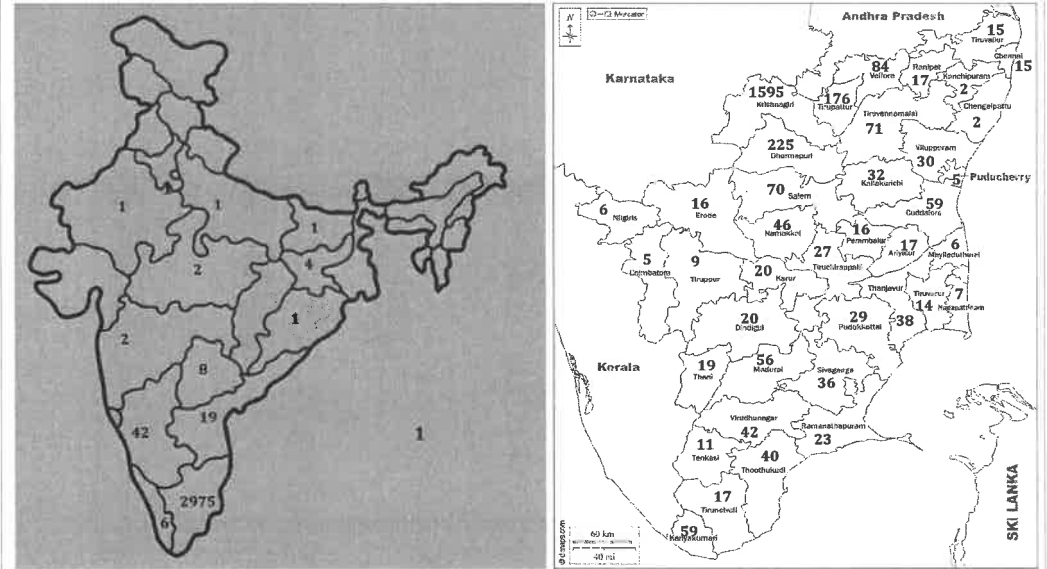
Strategic Plan for Admission

	2022-23	2023-24
AE	30	29
AR	29	15
BM	29	44
BT	48	47
CH	21	40
CE	8	22
ME	25	45

1. ACE Scholarship Scheme

Cut-off >=190	100%
Cut-off >=180	50%
Cut-off >=170	25%
Cut-off >=160	10%

1. ACE Sports Scholarship
2. Centre for Skill Development
3. Media Centre
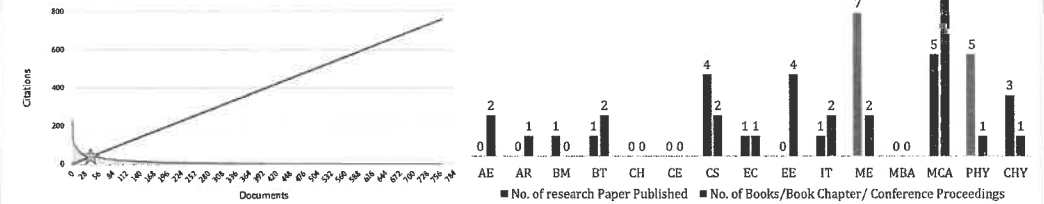4. Google Reviews, Shiksha, Collegedunia, Quora, Classdoor, Carreres 360° etc.,

AY 2023-24
Half Yearly Report -(June to December)

Curricular Aspects

Total Number of New Courses Introduced: 41

Value Added Courses Completed: 17

■ No. of New Courses Introduced (fromR22- III Sem)   ■ No. of Value added Course Offered
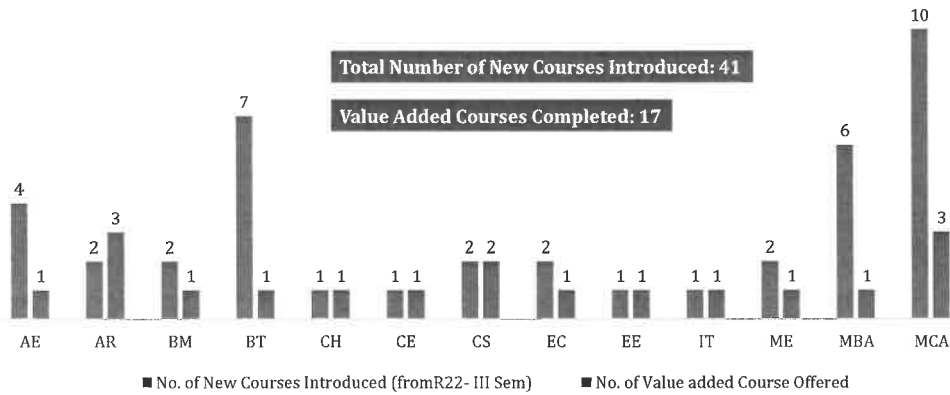
Research, Innovation & Extension

Of the documents considered for the h-index, 41 have been cited at least 41 times

■ No. of research Paper Published   ■ No. of Books/Book Chapter/ Conference Proceedings

Publications	Citing Articles	Times Cited		H-Index
253	3,151 Analyze	3,332	13.17	33
Total	Total	Total	Average per Item	
From 1989 to 2024	3,112 Analyze	3,280		
	Without self-citations	Without self-citations		

Mapping with Sustainable Development Goals (SDGs)

36   5   29   16   6   36

26   9   1   1   3

Students Support

■ No. of Soft Skills activity

■ Language and communication skills activity

■ Life skills activity

■ Activity on Awareness of trends in technology

■ No. of Technical fest/Academic fest

■ No. Alumni Lecture

■ Guidance/Coaching for competitive examinations

Axis Title
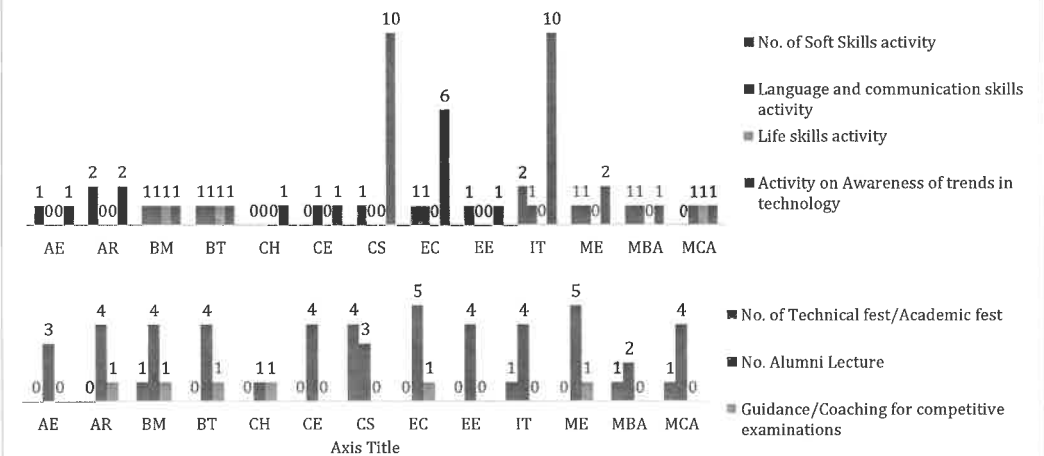
Students Satisfaction Survey (SSS)

Bar chart values (1–20): 3.48, 3.43, 3.50, 3.34, 3.49, 3.45, 3.18, 3.29, 3.38, 3.47, 3.48, 3.52, 3.26, 3.25, 3.37, 3.39, 3.37, 3.39, 3.20, 3.45
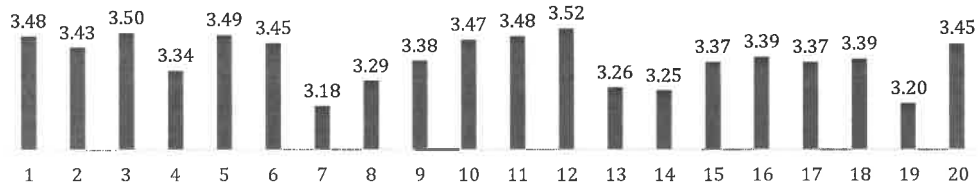
4. The teacher's approach to teaching can best be described as

7. The department takes active interest in promoting internship, student exchange, field visit opportunities for students.

8. The teaching and mentoring process in your department facilitates you in cognitive, social and emotional growth.

13. The teachers identify your strengths and encourage you with providing right level of challenges.

14. Teachers are able to identify your weaknesses and help you to overcome them.

19. What percentage of teachers use ICT tools such as LCD projector, Multimedia, etc. while teaching.

Feedback & Action Taken

Feedback on Facilities
- Feedback on Classroom Facilities
- Feedback on Laboratory Facilities
- Feedback on Sanitation and Hygiene
- Feedback on Hostel Facilities
- Feedback on Library Facilities
- Feedback on Canteen Facilities
- Feedback on Sports Facilities

Metrics Need to Focus

1. Skill Development Centre
2. Centre for Foreign Languages
3. Faculty Development Programmes
4. SDG Cell
5. Professor of Practice

Target for III Quarter

1. Autonomy Extension
2. Review on Learning Outcomes for I & III Semester Courses (R22)
3. Internal Academic & Administrative Audit
4. SDG Cell Formulation

35th IQAC Meeting - April (II Week)

Thank you