



C. Abdul Hakeem College of Engineering and Technology (CAHCET)

Research and Innovation Policy

1. Introduction

The **Research & Innovation (R&I) Policy** aims to establish a structured framework for fostering research, development, and innovation at **C. Abdul Hakeem College of Engineering and Technology**. This policy encourages faculty members and students to actively engage in **research activities, publish high-quality papers, secure grants**, and drive innovation through **startups and consultancy projects**.

Objectives

1. Promote a strong research culture across all departments.
2. Encourage faculty and students to pursue high-impact research.
3. Strengthen industry-academia collaboration through consultancy projects.
4. Enhance innovation through startups and hackathons.
5. Facilitate patent filing and Intellectual Property Rights (IPR) awareness.
6. Establish department-wise Scopus indexed conferences and journals.

Research Structure

1. Research & Development Coordinator

- **Publications Coordinator:** Responsible for overseeing journal and conference publications.
- **Patents/IPR Coordinator:** Manages patent filings and IPR-related activities.
- **Grants Coordinator:** Identifies funding opportunities and supports grant applications.

2. Innovation Coordinator

- **Institute Innovation Council (IIC):** Organizes innovation-related initiatives.
 - **Hackathon Coordinator:** Facilitates interdepartmental and national-level hackathons.
 - **Startup Coordinator:** Supports student and faculty startups.
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2. Research Grants & Funding Policy

1. Internal Grants:

- The institution has allocated an initial internal research fund of **₹2 lakhs per academic year for the entire college.**
- This funding will **be increased in the future** based on the research impact.
- Faculty members and students with **innovative research ideas** can apply for funding.
- Proposals will be **evaluated by a Research Evaluation Committee** based on project feasibility, innovation potential, and societal impact.
- The funding will be **awarded only to selected projects** after evaluation.

2. Pitching Day for Internal Grant Applications:

- A "**Pitching Day**" will be held once every semester, where faculty and students will present their research ideas.
- The best ideas will be selected for **internal funding support.**
- A panel of **experts, faculty members, and industry representatives** will review and approve the best projects for funding.

3. External Grants:

- Each department must submit **at least two external research grant proposals** every academic year.
- Grants can be obtained from **government agencies (DST, AICTE, UGC, SERB, TNSCST), private organizations, and international funding bodies.**
- The Research Dean's Office will facilitate workshops and training on **grant writing and proposal submission.**
- Each department must secure **at least research project above ₹1 lakh** per year.

4. Consultancy Projects:

- Each department must secure **at least one consultancy project above ₹1 lakh** per year.
- Faculty must actively engage with industries and research institutions for **collaborative research and knowledge transfer.**

3. Intellectual Property Rights (IPR) & Patents

1. Patent Filing & Innovation Support:

- Each department must **publish at least one patent** annually.

2. IPR Awareness & Training:

- A **minimum of two IPR-related workshops** will be conducted every academic year to educate faculty and students about IPR regulations, patent filing procedures, and technology commercialization.

4. Faculty Research & Publications Policy

1. **Research Publication Requirements:**
 - **Assistant Professors without Ph.D.:** Must publish **at least one Scopus-indexed journal paper** annually.
 - **Assistant Professors with Ph.D.:** Must publish **one Scopus-indexed journal paper and one Scopus-indexed conference paper** annually.
 - **Associate Professors:** Must publish **two Scopus-indexed journal papers or one Web of Science (WoS) journal paper** annually.
 - **Professors:** Must publish **one Scopus-indexed journal paper and one Web of Science (WoS) journal paper** annually.
 2. **Mandatory Ph.D. Registration:**
 - All faculty members must be **registered for a Ph.D.** if they do not already possess one.
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5. Conference & Research Event Policy

1. **Conference Indexing & Funding:**
 - Each department **must organize at least one research conference annually**, which must be indexed in **Scopus-indexed proceedings**.
 - Departments must apply for **grant funding from government bodies (DST, AICTE, UGC, etc.)** to financially support conferences.
 - The Research and Innovation Cell will provide guidance on **proposal submission and indexing requirements**.
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6. Research Centers & Infrastructure Development

1. Research Centers will be established for:
 - **Mechanical Engineering**
 - **Information Technology**
 - **Chemistry**
 2. These centers will focus on **interdisciplinary research, external funding, and industry collaboration**.
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7. Student Research & Publications

1. **Final Year Student Projects:**
 - All **final-year students must submit their project work as a journal paper in a Scopus indexed journal**.

- The **same project work must be submitted as a journal paper (minimum 3 pages)**, following a structured format provided by the **Research and Innovation Cell**.
 - The final-year projects must be submitted to the **respective department's proposed college journal**:
 - **Journal of Intelligent Electronics and Communication Systems** (for ECE & EEE)
 - **Journal of Advances in Mechanical and Building Sciences** (for Mechanical & Civil)
 - **Journal of Computational Intelligence and Digital Innovations** (for CSE, IT, AI & DS, MCA)
 - **Journal of Strategic Business and Management Innovation** (for MBA)
 - Faculty mentors must guide students in preparing their research findings according to academic publishing standards.
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8. Start-up & Innovation Policy

1. **Start-up Incubation & Entrepreneurship Development:**
 - At least **two start-ups must be incubated** from CAHCET every academic year.
 - Faculty and students will be encouraged to **participate in start-up awareness programs** to develop innovative business ideas.
 2. **ATAL Incubation Start-up Cell Support:**
 - The **ATAL Incubation Start-up Cell** in the College campus will be leveraged to support Engineering students.
 - Students will be guided to propose **start-up ideas, pitch to investors, and secure funding**.
 3. **Start-up Awareness Programs:**
 - The institution will conduct **start-up awareness and initiative programs** for both faculty and students.
 - Training sessions on **business model development, funding opportunities, and market strategies** will be organized.
 4. **Start-up and Incubation Policy:**
 - The policy document of MIIC (MMES Incubation & Innovation Council) will be followed.
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9. Hackathon & Competition Policy

1. **Departmental Hackathons:**
 - Each department must organize **at least one hackathon annually**.
2. **Institutional Hackathons:**
 - A total of **three interdisciplinary hackathons** will be conducted per academic year.

3. **National-Level Hackathon:**
 - One **national-level hackathon** will be conducted annually, focusing on **problem statements from the leather industry**.
 4. **Collaborative Hackathons:**
 - Collaborative hackathons with **industries and reputed institutions** will be encouraged.
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10. Industry Collaboration & MoUs

1. Each department must establish **at least one MoU with reputed companies** annually.
 2. MoUs will focus on **joint research projects, student internships, technology transfer, and faculty training programs**.
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11. Research & Innovation Awards

To recognize outstanding contributions in research, innovation, and publication, CAHCET has introduced **research awards**:

1. **Best Paper Award (Annual)** – Named after **Nawab C. Abdul Hakeem**
 - Given to two outstanding research papers based on **novelty, impact, and citations**.
 2. **Best Researcher Award (Annual)** – Named after **Dr. APJ Abdul Kalam**
 - Awarded to two researchers based on **patents published, research funds received, and papers published**.
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12. Institute Innovation Council (IIC) Goals

1. CAHCET aims to achieve a **4-star IIC rating** within the next academic cycle.
 2. Strengthening IIC activities through **collaborations, workshops, industry engagements, and innovation challenges**.
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13. Implementation & Monitoring

1. The **Research & Innovation (R&I) Committee** will oversee the implementation of this policy.
2. A **Research Review Meeting** will be conducted every **quarter** to track progress, review faculty research, and strategize improvements.

3. Annual performance reports will be compiled to evaluate research impact and ensure compliance with institutional targets.
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Conclusion

This **Research and Innovation Policy** serves as a blueprint for CAHCET's commitment to **academic excellence, industry collaboration, and entrepreneurial growth**. By fostering a **strong research ecosystem**, the institution aims to achieve **national and international recognition** in innovation and technology development.