

# ☆ Dr. Abha Sunil Khandelwal

Retired Head, Department of Computer Science, Hislop College, RTM Nagpur University, Nagpur

Founder, Association of All Computer Science Teachers, INDIA (AACST)

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## 🎓 Academic Qualifications

- **Ph.D. in Computer Science** – Emerging computational paradigms
  - **Ph.D. in Business Management** – Academic leadership & administration
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## 👤🏢 Teaching Journey – 33.5 Years of Impact

- **28.5 Years – Undergraduate** | Hislop College, Nagpur and S.K.P.College, Kamptee
- **5 Years – Junior College** | Porwal College, Kamptee & D.B. Science College, Gondia
- **12+ Years – Postgraduate** | Chemistry, Biotechnology, Computer Science, IT & Management

**Legacy:** Thousands of students mentored • Bridging *classical computing* with *modern technology*

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## 🏛️ University Leadership – 27 Years with RTM Nagpur University

- **Board of Studies Computer Science (1992–2023):**
  - Drafted syllabi for **B.Sc. C/S, B.Sc. IT, BCA, M.Sc. C/S, MCA, M.Sc. IT**
  - **Curriculum Innovation:** Introduced advanced technologies and new languages into the curriculum, fostering adaptability and future-readiness.
  - **University Roles: Academic & Administrative:**
    - Moderator, Paper Setter, Examiner, Valuer (UG & PG, across multiple universities)
    - Courses For B.Sc. C/S, B.Sc. IT, BCA, M.Sc. C/S, MCA, M.Sc. IT, PGDCS&A, BCCA, MCM
    - Member, Placement Committee
    - Member, Local Enquiry Committee
    - Member, Research Recognition Committee
    - Member of Visiting Committee for granting renewal of Recognition as Place of Higher learning and Research
    - Member, Selection Committee
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## Administrative & Leadership Roles at College

-  **Overall Incharge** – College Management System (CMS)
-  **Convener** – Database Admission Committee
-  **Member** – Time Table Committee
-  **Member** – Training and Placement Cell
-  **Co-Convener** – Skill Development Cell
-  **Member** – Anti-Sexual Harassment Committee
-  **Program Officer** – **Women Studies and Services Center**, Sub Division Hislop College, Nagpur (attached to RTM Nagpur University Parent Cell)
-  **Member** – Discipline Committee
-  **Member** – Library Committee
-  **Chief Officer** – **RTM Nagpur University Examinations**

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## Research & Supervision

- **UGC Minor Research Project:** *Secured Remote Access to Automated Campus Network*
- **Ph.D. Guidance:** 4 Awarded | 1 Ongoing
- **Publications:** 33 Journal Papers | 13 Conference Papers

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## □ Research & Technical Coordination:

Co-Ordinator, Technical and Pure Science Category, **Inter-University Research Competition – Avishkar 2008, Nagpur University**

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## Conferences & Outreach

- **Organizer/Chairperson:** National Conferences, Webinars, Workshops (AI, Quantum Computing, Computational Physics)
  - **Director:** *Cyber Shield 2025* AACST– National Awareness Drive on Digital Futures
  - **Advisory/Committee Member:** NCRIICT 2023, ICAMT 2025
  - **Session Chair:** Multiple state/national conferences (CSI Techcellence '13, NC-RICT 2023, etc.)
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## Faculty Development Programs (FDPs)

- **Organized Symposium on Curriculum Design of B.Sc Computer Science** for Nagpur University Computer Science Teachers
- **UGC Refresher Courses** | Resource Person
- **Teacher Training** | Physics & Computer Science faculty across Maharashtra State Junior College
- **National FDPs:**
  - *Quantum Computing Technologies* (2024)
  - *Blockchain Bootcamp: Smart Contracts* (2025)
  - *Quantum Quest: Principles, Security & Applications* (2025)
- **Pedagogy-Oriented FDPs:** *Interactive & Effective Teaching in Physics* (2025)

**Impact:** *Hundreds of educators empowered with AI, Quantum, Blockchain & modern pedagogy*

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## Knowledge Creation

- **Book:** *Fundamentals of Information Technology* (ISBN 978-93-81660-71-3)
  - **Digital Content:** AI, Algorithms, Quantum Cryptography, Blockchain, Edge Computing, Python
  - **Popular Series:** *Mastering Python* (9 episodes) | *Quantum Cryptography Tutorials* | *Science Shorts*
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## Systems Development & Institutional Digitization

- 💰 Developed **Accounts System** for Junior College
  - 📝 Designed and implemented **Admission Systems** for Arts, Commerce, and Science faculties
  - 📚 Supervised the **Library System**, streamlining operations and ensuring efficiency
  - ⚙️ As **Convener – Admission Committee**, led the **computerisation and database management** of the admission process
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## Digital Education & Science Communication

- **YouTube Channel** [@drabhakhandelwal](#)
  - **100+ Videos** on: Python • Quantum Computing • AI • Blockchain • Cybersecurity • Computational Physics
  - *Science Bytes & Science Shorts*: Making advanced science accessible
  - Recognized pioneer in **digital pedagogy and outreach**
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## Professional Memberships

- **Founder & Life Member, AACST**
- **Life Member**, Indian Association of Physics Teachers (IAPT)
- **Life Member**, Computer Society of India (CSI)
- **Life Member**, Indian Science Congress Association
- **Life Member**, Global Economic Progress & Research Association
- **Life Member**, Hislop College Alumni Association Nagpur (HISCAAN)
- **Ex-Executive Member**, IAPT SRC 08E
- **Ex-DRUCC Member**, Railway Ministry, Govt. of India

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## Awards & Recognition

- **Bharat Ratna Dr. Radhakrishnan Gold Medal Award (2018)**
  - *Excellence in Individual Achievement & National Development*
- Celebrated for **dedication, innovation, and nation-building through education**

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## Areas of Expertise

**Programming & Systems:** C, C++, Python, Java, Visual Basic, Unix, Linux OS

**Databases:** DBase, FoxPro, Oracle

**Core Computer Science:** DBMS, Operating Systems, System Analysis & Design, Data Structures

**Advanced Domains:** Software Engineering, Data Science, Text Mining, Human-Computer Interaction (HCI), E-Commerce, Software Testing, Security Enhancement in MANET Using Data Mining Techniques

**Emerging Technologies:** Blockchain, Artificial Intelligence, Quantum Computing, Quantum Cryptography, Computational Thinking

**Computational & Scientific Applications:** Computational Physics

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## Mission

*"To build a digitally empowered society by making **every citizen of the nation digitally literate** – fostering inclusive growth, innovation, and national development."*

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