



C. ABDUL HAKEEM COLLEGE OF ENGINEERING AND

Hakeem Nagar, Melvisharam-632 509

FACULTY PROFILE

Name	DR.B.A MOHAMMED HASHIM					
Gender	MALE	Date Of Birth	04-06-1986	Age	39	
Present Designation	ASSOCIATE PROFESSOR		Regular / Adjunction	REGULAR		
Date of Joining	25-06-2012					
Mobile No.	-		Email	hashimba.ece@cahcet.edu.in		
Highest Educational Qualification	Ph.D		Specialization	COMMUNICATION SYSTEMS		
Additional Qualification	GATE/NET/SLET	-				
Total working Experience	(i) Teaching : 13 YEARS 5 MONTHS 10 DAYS (ii) Industry: 1 YEAR 3 MONTHS					
Publications	Journals		International Journals	06	National Journals	-
	Conferences		International Conferences	03	National Conferences	-
No. of Patent	-					
No of Workshops/Seminars/Conferences/ FDP attended	FDP: 02 Seminars: 03 Workshops :-					
No of Workshops/Seminars/Conferences/ FDP organized	FDP: - Seminars: 03 Workshops: 02					
No of UG / PG / Ph.D Guidance:	UG: 24 PG: 03 PhD :-					
Membership in Professional Bodies	ISTE, IAENG					
Awards / Recognition Received	1. A NIDHI PRAYAS Grant of ₹5,00,000 has been awarded for innovation and prototype development. 2. Student Project Scheme funding from TNSCST in the academic years 2021-22 & 2022-23 , 2023-2024 & 2024-2025					
Other Responsibilities, if any	NBA , IQAC & Dean- Research & Innovation					

Journals

- The paper titled “Chaotic Image Encryption using Two Level Scrambling” was written by **Kumaran Subhashinf, Ramachandran Amuthaz, and Basheer Ahamed Mohammed Hashim**. It was published in **2025** in the journal *Advances in Electrical and Computer Engineering*, **Volume 25, Issue 2**, pages **27–36**, published by the **Stefan cel Mare University of Suceava**.

- **B. Mohammed Hashim and R. Amutha**, “Elderly People Activity Recognition Based on Object Detection Technique Using Jetson Nano,” *Wireless Personal Communications*, **vol. 134**, pp. **2041–2057**, April 2024.
Link: <https://link.springer.com/article/10.1007/s11277-024-10982-y>

- **Mohammed Aarif, K. O., Mohamed Yousuff, C., Mohammed Hashim, B. A., Mohamed Hashim, C., & Sivakumar, P.** (2022). “Smart bin: Waste segregation system using deep learning-IoT for sustainable smart cities.” *Concurrency and Computation: Practice and Experience*, **34(28)**, e7378.
Link: <https://onlinelibrary.wiley.com/doi/abs/10.1002/cpe.7378>

- **B. Mohammed Hashim and R. Amutha**, “Deep transfer learning–based human activity recognition by transforming IMU data to image domain using novel activity image creation method,” *Journal of Intelligent & Fuzzy Systems*, pp. **1–8**, March 2022.
doi: 10.3233/jifs-213174
Link: <https://content.iospress.com/articles/journal-of-intelligent-and-fuzzy-systems/ifs213174>

- **M. B. A and A. R.**, “Elderly Hajj pilgrims activity recognition based on candidate classification technique,” *Concurrency and Computation: Practice and Experience*, March 2022.

doi: 10.1002/cpe.6932

Link: <https://onlinelibrary.wiley.com/doi/abs/10.1002/cpe.6932>

- **B. Mohammed Hashim and R. Amutha**, “Human activity recognition based on smartphone using fast feature dimensionality reduction technique,” *Journal of Ambient Intelligence and Humanized Computing*, **vol. 12, no. 2**, pp. **2365–2374**, July 2020.
doi: 10.1007/s12652-020-02351-x

Link: <https://link.springer.com/article/10.1007/s12652-020-02351-x>

Conferences

- **Hashim, B. M., & Amutha, R.** (2021, April). *Machine Learning-based Human Activity Recognition using Neighbourhood Component Analysis*. In **2021 5th International Conference on Computing Methodologies and Communication (ICCMC)** (pp. 1080–1084). IEEE.

- **Kumar, S., Yogesh, T., Prithiv, M., Alam, S., Hashim, B. A., & Amutha, R.** (2020, March). *Data Mining Technique based Ambient Assisted Living for Elderly People*. In **2020 Fourth International Conference on Computing Methodologies and Communication (ICCMC)** (pp. 505–508). IEEE.

- **Sangavi, S., & Hashim, B. M.** (2019, March). *Human Activity Recognition for Ambient Assisted Living*. In **2019 International Conference on Vision Towards Emerging Trends in Communication and Networking (ViTECoN)** (pp. 1–4). IEEE.

Book Chapters

- **Mohammed Aarif, K. O., Sivakumar, P., Caffiyar, M. Y., Hashim, B. A., Hashim, C. M., & Rahman, C. A. (2023).** *Nature-Inspired Optimization Algorithms: Past to Present*. In **Nature-Inspired Optimization Methodologies in Biomedical and Healthcare** (pp. 1–32). Springer, Cham.
 - **Aarif, M., Sivakumar, P., Mohamed Yousuff, C., & Hashim, M. (2021).** *Deep MammoNet: Early Diagnosis of Breast Cancer Using Multi-layer Hierarchical Features of Deep Transfer Learned CNN*. In **Advanced Machine Learning Approaches in Cancer Prognosis** (pp. 317–339). Springer, Cham.
-

Received Project Grants from TNSCST

- A. Received **₹7,500** for the project “**Tamil air writing recognition application for dyslexic people**” under Student Project Scheme, **2023–24** (Completed).
 - B. Received **₹7,500** for the project “**Recognition of Sign Language using Jetson for Speech & Hearing Impairment People**” under Student Project Scheme, **2022–23** (Completed).
 - C. Received **₹7,500** for the project “**Jetson-based activity monitoring system for elderly people at home**” under Student Project Scheme, **2021–22** (Completed).
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Niral Thiruvizha (2023–2024)

Organized by **Government of Tamil Nadu**, Salem. Guided **two projects**:

- 1. Digital printing project** for controlling water consumption during the dyeing process — presented by **Asifa S and Hari Priya K.**
 - 2. E-tricycle project** for individuals with physical disabilities — presented by **Aswini V, Mahalakshmi B, and Harini K.**
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NIDHI PRAYAS Grant

Dr. B. A. Mohammed Hashim, Associate Professor and Dean of Research & Innovation, received the **NIDHI PRAYAS Grant of ₹5,00,000**. This funding is provided by the **Department of Science & Technology (DST), Government of India**, for innovation and prototype development.

Link: <https://link.springer.com/article/10.1007/s11277-024-10982-y>

GRANTS (TNSCST – Student Project Scheme)

- 2024–2025**
Dr. B. Mohammed Hashim (ECE) received a **Grant of ₹7,500** under the **Student Project Scheme** from the **Tamil Nadu State Council for Science & Technology (TNSCST)**, marking the **fourth consecutive year of receiving this grant**.
 - 2023–2024**
Received a **Grant of ₹7,500** for the project “**Tamil air writing recognition application for dyslexic people**” under the Student Project Scheme. (*Completed*)
 - 2022–2023**
Received a **Grant of ₹7,500** for the project “**Recognition of Sign Language using Jetson for Speech & Hearing Impairment People**” under the Student Project Scheme. (*Completed*)
 - 2021–2022**
Received a **Grant of ₹7,500** for the project “**Jetson-based activity monitoring system for elderly people at home**” under the Student Project Scheme. (*Completed*)
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