

Mostofa Kamal Nasir, Ph.D.
Professor, Dept. of Computer Science and Engineering
Mawlana Bhashani Science and Technology University, Bangladesh.
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HIGHEST ACADEMIC DEGREE:

Degree : Doctor of Philosophy in Computer Science
Faculty : Faculty of Computer Science and Information Technology
University : University of Malaya (QS World Rank 58 in 2026)
Country : Malaysia

RESEARCH PROFILE:

Total Article : 62 (International and Index)
Total Citation : 2085
Personal Profile : <https://cse.mbstu.ac.bd/teacher/kamal.mostofa>
Google Scholar : <https://scholar.google.com/citations?user=ZWb9VIEAAAAJ&hl=en>
ResearchGate : <https://www.researchgate.net/profile/Mostofa-Nasir>

WORK EXPERIENCES (Teaching Experience: 23 years)

Professor (Grade-1)

- Department of Computer Science and Engineering,
Mawlana Bhashani Science and Technology University, Tangail-1902, Bangladesh.
- 21/12/2025 to date

Professor (Grade-2)

- Department of Computer Science and Engineering,
MBSTU, Tangail-1902, Bangladesh. **Tenure: 13/04/2018 to 20/12/2025**

Adjunct Professor

- Department of Electrical and Computer Engineering,
North South University (NSU). Tenure: January 2017 to Till Date

Adjunct Professor

- Department of Information and Communication Technology,
Bangladesh University of Professionals (BUP) Tenure: Jan 2025 to Dec 2025

PAST ADMINISTRATIVE ROLE:

Dean

Faculty of Engineering

Mawlana Bhashani Science and Technology University, Tangail-1902, Bangladesh.
Tenure: March 2019 to March 2021 (According to Seniority)

Chairman

Department of Computer Science & Engineering

Mawlana Bhashani Science and Technology University, Tangail-1902, Bangladesh.
Tenure: March 2011 to February 2012 (According to Seniority)

Provost

Abdul Mannan Hall

MBSTU, Tangail-1902, Bangladesh. **Tenure: September 2009 to October 2009**

Assistant Proctor

Mawlana Bhashani Science and Technology University, Tangail-1902, Bangladesh.
Tenure: September 2007 to January 2009

FACULTY EXPERTISE:

Curriculum development expertise:

- Designed Outcome Based Education (OBE) Curriculum
- Knowledge on Problem-Based Learning (PBL)
- Follow the Washington Accord- An international accreditation agreement for undergraduate professional engineering academic degrees and postgraduate professional engineering academic degrees.

Coordinator For the admission test of Mawlana Bhashani Science and Technology University of the year 2012 and 2019

Technical Lead:

- For design, development and deployment for the comprehensive university campus Management Platform ucam. (ucam.mbstu.ac.bd).
- Coordinator For the admission test of Mawlana Bhashani Science and Technology University of the year 2012 and 2019 (70000+ students seat for the admission test)

Online Tools and Software:

- **CANVAS** (Learning Management System)
- **Moodle** (Learning Management System)
- **Blackboard** (Educational Technology Services)
- **Zoom/ GoogleMeet** (Online Class/Meeting Platforms)
- **Google classroom** (Classroom Management Tools & Resources)
- **Ucam/RDS/MyUM/MyTUM** (Platform for online university Management)
- **Turnitin/iThenticate** (plagiarism checker)
- **OBS** (software for online class/video recording and live streaming)
- **WACOM** (Hardware Tools for online class)

COURSES TAUGHT

Undergraduate Level:

- Computer Programming (C/JAVA/Python)
- Digital Logic Design
- Data Structure and Algorithm
- Theory of Computation
- Operating System
- Object Oriented Analysis and Design
- Object Oriented Programming
- Database Management System
- Discrete Mathematics
- Network Routing and Switching
- Microprocessor and Interfacing
- Computer Networks and Data Communications
- Web Programming (HTML/CSS/Javascripts)

Graduate Level:

- Wireless Sensor Network
- Machine Learning
- Pattern Recognition
- Internet of Things
- Cloud Computing and Big Data
- Wireless and Mobile Communications
- Network Security and Cyber law

CURRICULUM DEVELOPMENT EXPERTISE:

HARD SKILLS: Crafting educational experiences with a blend of pedagogical expertise, digital fluency, and data-informed assessment to foster effective learning outcomes.

- Educational Theory and Pedagogy
- Curriculum and Instructional Design
- Assessment and Evaluation Methods
- Subject Matter Expertise
- Learning Management Systems (LMS) Proficiency
- Technology Integration in Education
- Data-Driven Instructional Strategies
- Content Authoring Tools
- Standards Alignment and Compliance
- Instructional Material Development

SOFT SKILLS: Empowering educational experiences through empathy, creativity, and a commitment to inclusive, learner-focused curriculum design.

- Empathy and Learner Advocacy
- Communication and Presentation Skills
- Critical Thinking and Problem Solving
- Creativity and Innovation
- Collaboration and Teamwork
- Adaptability and Flexibility
- Organizational and Time Management
- Cultural Competence and Inclusivity
- Feedback Reception and Implementation
- Continuous Learning and Professional Development

Social/Organizational Activities

- Lions Clubs Internationals
- Bangladesh Computer Society
- Bangladesh Red Crescent Society
- Shushashoner Jonno Nagorik (Shujon)
- Ziaur Rahman Foundations
- Zia Parishad
- Bangladesh jatiotabadi chatra dal (Past)

COUNTRY VISITED

- Malaysia
- Germany
- Qatar
- Singapore
- Saudi Arabia
- India
- United Arab Emirates

PAST WORK EXPERIENCES:

Director

- Research Cell,
Mawlana Bhashani Science and Technology University
(MBSTU), Santosh, Tangail-1902, Bangladesh

- **September 2024 to till Date**

Dean

- Faculty of Engineering,
Mawlana Bhashani Science and Technology University
(MBSTU), Santosh, Tangail-1902, Bangladesh

- **March 2019 to March 2021**

Head

Department of Computer Science & Engineering

Mawlana Bhashani Science and Technology University,
Santosh, Tangail-1902, Bangladesh,

Tenure: April 2011 to February 2012

Focal Point a2i project

- Mawlana Bhashani Science and Technology University (MBSTU),
Santosh, Tangail-1902, Bangladesh.

- **December 2018 to December 2021**

Associate Professor

- Department of Computer Science and Engineering,
Mawlana Bhashani Science and Technology University (MBSTU),
Santosh, Tangail-1902

- **13/03/2013 to 12/04/2018**

Assistant Professor

- Department of Computer Science and Engineering,
Mawlana Bhashani Science and Technology University (MBSTU),

- **21/12/2008 to 12/03/2013**

Lecturer

- Department of Computer Science and Engineering,
Mawlana Bhashani Science and Technology University (MBSTU),

- **21/12/2005 to 20/12/2008**

Lecturer

- Department of Computer Science and Engineering,
Daffodil International University, Dhaka

- **May 2005 to December 2005**

Lecturer

- Department of Computer Science and Engineering,
Peoples University of Bangladesh, Dhaka

- **September 2003 to April 2005**

EDUCATION

Degree : **Doctor of Philosophy**
Faculty : Faculty of Computer Science and Information Technology
University : University of Malay (**QS World Rank 65 in 2024**)
Thesis Title : Adaptive Delay Torrent Routing Protocol for VANET
Country : Malaysia

Degree : **Bachelors of Science in Electronics and Computer Science**
Faculty : Faculty of Mathematical & Physical Sciences
University : Jahangirnagar University
Country : Bangladesh
Result : **First Class**
Degree : **Higher Secondary Certificate (H.S.C)**
Group : **Science**
College : Govt. Science College, Dhaka
Board : Dhaka, Bangladesh
Result : **First Division**

Degree : **Secondary School Certificate (S.S.C)**
Group : **Science**
School : Bharrah U.C. High School, Tangail
Board : Dhaka, Bangladesh
Result : **First Division**

Technical Experience

1. Basic Network Administration and Computer Hardware Microsoft office,
2. Search Engine Optimization
3. Web Development Essentials
4. Android
5. Database (MySQL / Oracle / SQL Server)
6. Front-End Developer (React / NodeJS / VueJS/ Angular JS)
7. Java
8. Laravel
9. Python
10. UX-UI Design
11. e-commerce Management
12. Cyber Security Essentials
13. WordPress
14. Arduino programming

SELECTED PUBLICATION (WoS/SCOUPUS INDEX)

1. Bhowmik, Pankaj, and Mostofa Kamal Nasir. "Anemia Diagnosis from Clinical Records Leveraging Tree-Driven and XAI-Enhanced Machine Learning." *Computational Biology and Chemistry* (2025): 108582.
2. Shaha, Pabon, Md Saikat Islam Khan, Anichur Rahman, Mohammad Minoar Hossain, Golam Mahamood Mammun, and Mostofa Kamal Nasir. "A Prevalent Model-based on Machine Learning for Identifying DRDoS Attacks through Features Optimization Technique." *Statistics, Optimization & Information Computing* 13, no. 1 (2025): 409-433.

3. Alam, Md Nur-A., Khandaker Mohammad Mohi Uddin, Md Mahbubur Rahman, M. M. R. Manu, and **Mostofa Kamal Nasir**. "A Novel Automated System to Detect Breast Cancer from Ultrasound Images Using Deep Fused Features and Super Resolution." *Intelligence-Based Medicine* (2024): 100149.
4. Begum, Momotaz, Mehedi Hasan Shuvo, **Mostofa Kamal Nasir**, Amran Hossain, Mohammad Jakir Hossain, Imran Ashraf, Jia Uddin, and Md Abdus Samad. "LCNN: Lightweight CNN architecture for software defect feature identification using Explainable AI." *IEEE Access* (2024). (*WoS/SCOPUS Indexed Publication*)
5. Rahman, Anichur, Md Saikat Islam Khan, Antonio Montieri, Md Jahidul Islam, Md Razaul Karim, Mahedi Hasan, Dipanjali Kundu, **Mostofa Kamal Nasir**, and Antonio Pescapè. "BlockSD-5GNet: Enhancing security of 5G network through blockchain-SDN with ML-based bandwidth prediction." *Transactions on Emerging Telecommunications Technologies* 35, no. 4 (2024): e4965. (*WoS/SCOPUS Indexed Publication*)
6. Nur-A-Alam, Md, Khandaker Mohammad Mohi Uddin, M. M. R. Manu, Md Mahbubur Rahman, and **Mostofa Kamal Nasir**. "An Automatic System to Detect Colorectal Polyp Using Hybrid Fused method from Colonoscopy Images." *Intelligent Systems with Applications* (2024): 200342. (*WoS/SCOPUS Indexed Publication*)
7. Shaha, Pabon, Md Saikat Islam Khan, Anichur Rahman, Mohammad Minoar Hossain, Golam Mahamood Mammun, and **Mostofa Kamal Nasir**. "A Prevalent Model-based on Machine Learning for Identifying DRDoS Attacks through Features Optimization Technique." *Statistics, Optimization & Information Computing* (2024).
8. Nur-A-Alam, Md, **Mostofa Kamal Nasir**, Mominul Ahsan, Md Abdul Based, Julfikar Haider, and Marcin Kowalski. "Ensemble classification of integrated CT scan datasets in detecting COVID-19 using feature fusion from contourlet transform and CNN." *Scientific Reports* 13, no. 1 (2023): 20063. (*WoS/SCOPUS Indexed Publication*)
9. **Nasir, Mostofa Kamal**, Mominul Ahsan, Md Abdul Based, Julfikar Haider, and Sivaprakasam Palani. "A faster RCNN based diabetic retinopathy detection method using fused features from retina images." *IEEE Access* (2023). (*WoS/SCOPUS Indexed Publication*)
10. Rahman, Md Mahbubur, **Mostofa Kamal Nasir**, Md Nur-A-Alam, and Md Saikat Islam Khan. "Proposing a hybrid technique of feature fusion and convolutional neural network for melanoma skin cancer detection." *Journal of Pathology Informatics* 14 (2023): 100341. (*WoS/SCOPUS Indexed Publication*)
11. Nur, A., Md Saikat Islam Khan, and **Mostofa Kamal Nasir**. "Using Fused Contourlet Transform and Neural Features to Spot COVID19 Infections in CT Scan Images." *Intelligent Systems with Applications* (2023): 200182. (*WoS/SCOPUS Indexed Publication*)
12. Khan, Md Saikat Islam, Anichur Rahman, Tanoy Debnath, Md Razaul Karim, **Mostofa Kamal Nasir**, Shahab S. Band, Amir Mosavi, and Iman Dehzangi. "Accurate brain tumor detection using deep convolutional neural network."

- Computational and Structural Biotechnology Journal 20 (2022): 4733-4745.
(*WoS/SCOPUS Indexed Publication*)
13. Islam, Md Tarequl, **Mostofa Kamal Nasir** et al. "IoT Enabled Virtual Home Assistant Using Raspberry Pi." *Distributed Computing and Optimization Techniques: Select Proceedings of ICDCOT 2021*. Singapore: Springer Nature Singapore, 2022. 559-570. (*WoS/SCOPUS Indexed Publication*)
 14. Islam, Nazrul, Habibur Rahman, and **Mostofa Kamal Nasir**. "A Comprehensive Analysis of QoS in Wired and Wireless SDN Based on Mobile IP." *International Journal of Computer Network & Information Security* 13.5 (2021). (*WoS/SCOPUS Indexed Publication*)
 15. Khan, Saikat Islam, Pulak Kanti Bhowmick, Nazrul Islam, **Mostofa Kamal Nasir**, and Jia Uddin. "Breast Invasive Ductal Carcinoma Classification Based on Deep Transfer Learning Models with Histopathology Images." *Data Science and Data Analytics: Opportunities and Challenges* (2021): 249. (*WoS/SCOPUS Indexed Publication*)
 16. Md Jahidul Islam, Anichur Rahman, Sumaiya Kabir, Md Razaul Karim, Uzzal Kumar Acharjee, **Mostofa Kamal Nasir**, Shahab S Band, Mehdi Sookhak, Shaoen Wu, "Blockchain-sdn based energy-aware and distributed secure architecture for IoTs in smart cities" *EEE Internet of Things Journal*, (2021) (*WoS/SCOPUS Indexed Publication*)
 17. Khan, Md Saikat Islam, Nazrul Islam, Jia Uddin, Sifatul Islam, and **Mostofa Kamal Nasir**, "Water quality prediction and classification based on principal component regression and gradient boosting classifier approach." *Journal of King Saud University-Computer and Information Sciences* (2021) (*WoS/SCOPUS Indexed Publication*)
 18. Anichur Rahman; Md. Jahidul Islam; Antonio Montieri; **Mostofa Kamal Nasir**; Md. Mahfuz Reza; Shahab S. Band; Antonio Pescape; Mahedi Hasan; Mehdi Sookhak; Amir Mosavi, "SmartBlock-SDN: An Optimized Blockchain-SDN Framework for Resource Management in IoT", *IEEE Access* 9 (2021): 28361-28376. (*WoS/SCOPUS Indexed Publication*)
 19. Rahman, Md Tanvir, Taslima Ferdaus Shuva, Risala Tasin Khan, and **Mostofa Kamal Nasir**. "A Review of Contact Tracing Approaches for Controlling COVID-19 Pandemic." *Global Journal of Computer Science and Technology* (2021).
 20. Khan, Md Saikat Islam, Anichur Rahman, Sifatul Islam, **Mostofa Kamal Nasir**, Shahab S. Band, and Amir Mosavi. "IoT and Wireless Sensor Networking-based Effluent Treatment Plant Monitoring System." *Acta Polytechnica Hungarica* 18, no. 10 (2021). (*WoS/SCOPUS Indexed Publication*)
 21. A Rahman, **Mostofa Kamal Nasir**, Z Rahman, "DistB-Condo: Distributed Blockchain-based IoT-SDN Model for Smart Condominium", *IEEE Access*, 2020 (*WoS/SCOPUS Indexed Publication*)
 22. MD. A ISLAM, **MOSTOFA KAMAL NASIR**, "Evaluation Of Money Laundering Risk Of Bank Accounts Using Naive Bayes Classification", *Journal of Engineering Science and Technology* 15 (5), 3481-3493 (*WoS/SCOPUS Indexed Publication*)

23. A Rahman, **Mostofa Kamal Nasir**, Z Rahman, A Mosavi, S Shahab, B Minaei-Bidgoli, "DistBlockBuilding: A Distributed Blockchain-based SDN-IoT Network for Smart Building Management", IEEE Access, 2020 (*WoS/SCOPUS Indexed Publication*)
24. **Mostofa Kamal Nasir**, A Rahman, et. al., "DistB-SDoIndustry: Enhancing Security in Industry 4.0 Services based on Distributed Blockchain through Software Defined Networking-IoT Enabled Architecture", International Journal of Advanced Computer Science and Applications (IJACSA) (*WoS/SCOPUS Indexed Publication*).
25. **Mostofa Kamal Nasir**, Rafidah Md Noor, Mohsin Iftikhar, Muhammad Imran, Ainuddin Wahid Abdul Wahab, Mohammad Reza Jabbarpour, and Rashid H Khokhar, "A Framework and Mathematical Modeling for the Vehicular Delay Tolerant Network Routing", Mobile Information Systems, 2016 (*WoS/SCOPUS Indexed Publication*)
26. **Mostofa Kamal Nasir**, M.A.Kalam, B.M. Masum and Rafidah Md Noor, "Reduction of Fuel Consumption and Exhaust Pollutant Using Intelligent Transport System", Scientific World Journal, 2014 (*WoS/SCOPUS Indexed Publication*)
27. **Mostofa Kamal Nasir**, Syed Adeel Ali Shah, Rafidah Md Noor and Sharmin Parveen, "A Comparative Study and Stepwise Approach for Routing In Vanets", Advances in Natural and Applied Sciences, 2014 (*WoS/SCOPUS Publication*)
28. Syed Adeel Ali Shah, Muhammad Shiraz, **Mostofa Kamal Nasir**, Rafidah Md Noor, Unicast Routing Protocols for Urban Vehicular Networks: Review, Taxonomy and Open Research Issues, Journal of Zhejiang University- SCIENCE C 2014 (Computers & Electronics) (*WoS/SCOPUS*)
29. Mohamed Ahmed, Mohammad Reza Jabbarpour Sattari, **Mostofa Kamal Nasir**, Saeid Ghahremani, Sajad Khorsandroo, Syed Adeel Shah Ali, and Rafidah Md Noor, "Vehicle adhoc sensor network framework to provide green communication for urban operation rescue", Lecture Notes on Information Theory, 2013 (*SCOPUS Indexed Publication*)
30. A Rahman, MJ Islam, FA Sunny, **Mostofa Kamal Nasir**, "Distblocksdn: A distributed secure blockchain based sdn-iot architecture with nfv implementation for smart cities", Technology (ICIET) 23, 24 (2020) (*WoS/SCOPUS Publication*)
31. **Mostofa Kamal Nasir**, Syed Adeel Ali Shah, Muhammad Ahsan Qureshi, Michael Oche, and Rafidah Md Noor. "Adapting geographical DTN routing for enhanced connectivity in partitioned VANETs on highways." In *Region 10 Symposium, 2014 IEEE*, pp. 105-110. IEEE, 2014. (*WoS/SCOPUS Indexed Publication*)
32. **Mostofa Kamal Nasir**, Syed Adeel Ali Shah , Rafida Md. Noor and Sharmin Parvin, A Comparative Study of Routing in VANETs and A Stepwise approach in UM PGRES Symposium in 2012. (*WoS/SCOPUS Indexed Publication*)
33. Reza Jabbarpour Sattari, **Mostofa Kamal Nasir**, Syed Adeel Shah Ali and Rafidah Md Noor, Vehicle Adhoc Sensor Network Framework to Provide Green Communication for Urban Operation Rescue, 3rd International Conference on Information and Network Technology (ICINT 2013), 2013 in Singapore (*WoS/SCOPUS Indexed Publication*)

Books: Computer Network, For Undergraduate Level, Published By Open University.

COMPUTER SKILLS:

C/C++, JAVA, Assembly language, MS Visio, Open Office, MATLAB, HFSS, OMNeT++, PHP, Laravel, SQL, Mininet, NS-2, and Python. Fluent in LINUX,

PERSONAL DETAILS:

- | | |
|-----------------------------|--|
| 1. Name | Professor Dr. Mostofa Kamal Nasir |
| 2. Father's Name | Late Sujat Ali Miah |
| 3. Mother's Name | Rezia Begum |
| 4. Spouse | Sayedra Ifatara, MSS in Social Welfare, House Wife |
| 5. Date of birth | 7 February 1979, Tangail, Bangladesh |
| 6. NID Number | 4600087066 |
| 7. Marital Status | Married |
| 8. Religion | Islam |
| 9. Permanent Address | Village: Bharrah, Post Office: Solil Arrah, Upzila: Nagorpur
District: Tangail, Bangladesh-1936 |

REFERENCES:

1. **PROF. TS. DR. RAFIDAH BINTI MD NOOR**
Department of Computer System & Technology
Faculty of Computer Science & Information Technology
University of Malaya, Kuala Lumpur, Malaysia
Email: fidah@um.edu.my
2. **Dr. Mohammad Shorif Uddin**
Professor
Department Of Computer Science & Engineering
Jahangirnagar University, Savar-1342, Dhaka, Bangladesh.
Email: shorifuddin@juniv.edu

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Department of Computer Sciences and Engineering,
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