Md. Anowar Kabir

Curriculum Vitae (CV)

Uttar Faridpur, Sadullapur
Gaibandha, Bangladesh,
+880 1747 345 676
anowarkabir.ict@mbstu.ac.bd

Career Objectives

To excel as a Lecturer at Mawlana Bhashani Science and Technology University, imparting of Information and Communication Technology knowledge and fostering academic growth through engaging teaching and research contributions.

Work Experiences

1. Lecturer, Dept. of Information and Communication Technology,
   Mawlana Bhashani Science and Technology University, Santosh, Tangail-1902.
   [June, 2024 - Now]
2. Senior Officer (Asst. Programmer), Rupali Bank PLC.
   [May, 2022 - June, 2024]
3. Lecturer, Dept. of Computing and Information Systems,
   Daffodil International University, Ashulia, Dhaka
   [September, 2021 - April, 2022]

Educational Attainments

Mawlana Bhashani Science and Technology University, Bangladesh
M.Sc. (Engineering) in Information and Communication Technology
Session: 2018-2019
CGPA: **4.00** (out of 4.00)
Position: **1st**

Mawlana Bhashani Science and Technology University, Bangladesh
B.Sc. (Engineering) in Information and Communication Technology
Class of 2018
Result Published Date: 23 Aug, 2022
CGPA: **3.89** (out of 4.00)
Position: **3rd**

Gaibandha Government College, Gaibandha, Bangladesh
Higher Secondary Certificate Examination, Dinajpur Board
Class of 2014
CGPA: **4.80** (out of 5.00)

Faridpur High School, Sadullapur, Gaibandha, Bangladesh
Secondary School Certificate Examination, Dinajpur Board
Class of 2012
CGPA: **5.00** (out of 5.00)

Journal Publications

1. **Kabir, M.A.**, Hassan, M.M., Hossain, M.N., Paul, B.K. and Ahmed, K., 2020. Design and performance evaluation of photonic crystal fibers of supporting orbital angular momentum states in optical transmission. *Optics Communications*, **Elsevier**, p.125731. **(Q1 Ranked Journal, IF = 2.11)**
2. **Kabir, M.A.**, Hassan, M.M., Ahmed, K., Rajan, M.M., Aly, A.H., Hossain, M.N. and Paul, B.K., 2020. Novel spider web photonic crystal fiber for robust mode transmission applications with supporting orbital angular momentum transmission property. *Optical and Quantum Electronics*, **Springer**, 52(7), pp.1-17. **Q1 Ranked Journal, IF = 1.92)**
3. **Kabir, M.A.**, Ahmed, K., Hassan, M.M., Hossain, M.M. and Paul, B.K., 2020. Design a photonic crystal fiber of guiding terahertz orbital angular momentum beams in optical communication. *Optics Communications*, **Elsevier**, p.126192. **Q1 Ranked Journal, IF = 2.11)**
4. Hassan, M.M., **Kabir, M.A.**, Hossain, M.N., Biswas, B., Paul, B.K. and Ahmed, K., 2020. Photonic crystal fiber for robust orbital angular momentum transmission: design and investigation. *Optical and Quantum Electronics*, **Springer**, 52(1), p.8. **(Q1 Ranked Journal, IF = 1.92)**

5. Hassan, M.M., **Kabir, M.A.**, Hossain, M.N., Nguyen, T.K., Paul, B.K., Ahmed, K. and Dhasarathan, V., 2020. "Numerical analysis of circular core shaped photonic crystal fiber for orbital angular momentum with efficient transmission." *Applied Physics B*, 126(9), **Springer**, pp.1-8. **Q1 Ranked Journal, IF = 1.92)**
6. Al-Zahrani, F.A. and **Kabir, M.A.**, 2021, April. "Ring-Core Photonic Crystal Fiber of Terahertz Orbital Angular Momentum Modes with Excellence Guiding Properties in Optical Fiber Communication." *Photonics*, (Vol. 8, No. 4, p. 122). , 126(9), **Multidisciplinary Digital Publishing Institute. Q2 Ranked Journal, IF = 2.676)**
7. Eid, M.M., Rashed, A.N.Z., **Kabir, M.A.** and Hassan, M.M., 2020. Measuring clock jitter and data signals for bit error detection in optical transceiver systems". 1(ahead-of-print). **Journal of Optical Communications**, **De Gruyter**, **Q3, IF = 1.36**
8. Israk, M.F., Razzak, M.A., Ahmed, K., Hassan, M.M., **Kabir, M.A.**, Hossain, M.N., Paul, B.K. and Dhasarathan, V., 2020. Ring-based coil structure photonic crystal fiber for transmission of Orbital Angular Momentum with large bandwidth: Outline, investigation and analysis". *Optics Communications*, **Elsevier**, 473, p.126003. **(Q1 Ranked Journal, IF = 2.11)**
9. Abdullah, H., Ahmed, K., Alam, M.S., Rashed, A.N.Z., Mitu, S.A., Al-Zahrani, F.A. and **Kabir, M.A.** 2021. "High sensitivity refractive index sensor based on triple layer MgF2-gold-MgF2 coated nano metal films photonic crystal fiber". 241, p.166950. **Optik**, **Elsevier**, **Q2, IF = 2.59**
10. Kabir, M.A., Paul, B.K., Hossain, M.S., Uddin, M.S. and Morshed, M., 2024. Fiber design and performance analyses for optical multiplexing: terahertz optical communications. Physica Scripta, 99(5), p.055559.

Conference Paper

1. *Hossain, M.M., **Kabir, M.A.**, Hassan, M.M., Parag, M.A.R., Hossain, M.N., Paul, B.K., Uddin, M.S. and Ahmed, K., 2020, February. "Proposal of a Highly Birefringent Bow-Tie Photonic Crystal Fiber for Nonlinear Applications". In International Conference on Cyber Security and Computer Science*, **Springer**, (pp. 659-670).

Book Chapter

1. Ahmed K., Hassan M. M., **Kabir M.A.** (2021) "Polymer and Ceramic Nanotechnology for Biomedical Applications". In: Hussain C.M., Thomas S. (eds) Handbook of Polymer and Ceramic Nanotechnology. **Springer, Cham**.

Research Interests

- ⊙ Cyber Security
- ⊙ Machine Learning
- ⊙ Terahertz and Optical Data Communications

Research Details Link

Scholar	`https://scholar.google.com/citations?hl=en&user=z4LWApgAAAAJ`
ResearchGate	`https://www.researchgate.net/profile/Md_Anowar_Kabir2`
ORCID iD	`https://orcid.org/0000-0003-0882-5157`
Portfolio	`https://anowarkabir.github.io/`

Research Scholarship

ICT Fellowship	Selected as Research Fellow by ministry of Information and Communication Technology *(ICT Fellowship)*, Peoples Republic of Bangladesh at fiscal year of 2020-2021 for M.Sc. research work.
NST Fellowship	Selected as Research Fellow by ministry of Science Technology *(National Science Technology Fellowship)*, Peoples Republic of Bangladesh at fiscal year of 2020-2021.

Achievements and Certificates

Participation	IT-Quiz contest of the IEEE MBSTU Student Branch Inauguration Program-2017
WorkShop	Participation in the workshop on "How to make Android Controlled Robot" held on 15^{th} october, 2019 organized by IEEE MBSTU Student Branch
Webinar	Participation in the Webinar on "Semiconductor Industry: Moore's Law and the Future of Computing", Arranged by IEEE Young Professionals Bangladesh held on Zoom Platform.
IEEE Symposium	An extended abstract accepted and certified by IEEE Computer Society Bangladesh chapter at the IEEE Winter Symposium 2020 with paper ID 66 and Title "Designing a fiber of transmitting Terahertz band supported Orbital angular momentum mode in optical communication".

Banking Diploma	JAIBB (Junior Associate of the Institute of Bankers, Bangladesh), IBB, Dhaka, Bangladesh.

Technical Skills

Language	C, C++, Java, MySQL, HTML, CSS, Javascript,PHP, Python, Matlab
OS	Microsoft Windows, Linux Mint, Ubuntu
Tools	Code Blocks, Turbo C++, Notepad++, NetBeans, Visual Studio, COMSOL Multiphysics, LaTex

Other Skills

IEEE	Student Member (2019 - Till Now)
IEEE SB	Secretary at IEEE MBSTU Student Branch (2019-2020)
Language	English, Bangla

Personal Information

Name	Md. Anowar Kabir
Parents	Md. Mozibar Rahman and Most. Anwara Begum
Present Address	Dept. of ICT, MBSTU, Santosh, Tangail, Dhaka, Bangladesh
Permanent Address	Uttar Faridpur, Sadullapur, Gaibandha, Bangladesh
Contact	[+8801747345676], [anowarkabir.ict@mbstu.ac.bd]
Blood Group	AB+

References

Monir Morshed
Professor
Dept. of ICT, MBSTU
Tangail-1902, Bangladesh
Phone: +880 1793 667 714
Email: monirmorshed.ict@mbstu.ac.bd
Email: monirmorshed.mbstu@gmail.com

Dr. Sajjad Waheed
Professor and Chairman
Dept. of ICT, MBSTU
Tangail-1902, Bangladesh
Phone: +880 1787 064 807
Email: sajjad@mbstu.ac.bd

Personal Statement

I believe myself, to be the clear and logical mind with a practical approach to solve any problems at any situation. I will be dedicated myself by applying my horizon skills to contribute towards the organization's goal.

Sincerely,

Md. Anowar Kabir
Lecture, Dept. of ICT, MBSTU.