## CURRICULUM VITAE

Name	Sk Babul Akhtar	
Qualification	<ul> <li>M. Tech in Electronics and Telecommunication Engineering from Jadavpur University</li> <li>B. Tech in Applied Instrumentation and Electronics from Academy of Technology</li> </ul>	35
Designation, Department, and School	Assistant Professor, Dept. of Electronics and Communication Engineering (ECE), School of Engineering	
Subjects Taught	Network Theory, Industrial Automation and Control, Digital Electronics, Computer Networks, Signals and Systems, Analog Electronics, Computer Architecture, Data Structure and Algorithm, Programming in C, Object Oriented Programming with Java, Python	
Research Interest	Kalman filter, Precise Point Positioning of LEO satellites, Object Tracking, Internet of Things (IoT),	
Experience	07/2023 to Current – Assistant Professor, Dept. of ECE Swami Vivekananda University 03/2022 to 06/2023 – JRF on an ISRO Respond Project 07/2021 to 10/2021 – Systems Engineer, Infosys 06/2019 to 09/2020 – Assistant Systems Engineer, TCS	
Publications	S.B. Akhtar. (2023). A comprehensive stracking in one and two dimensions of Adhikary, D. Mondal, & D. C. Developments in Electronics. ISBN: 9	approach to accurate object using Kalman Filter. In S. hakraborty (Eds.), New
	S. B. Akhtar, S. Dhabal and P. Venk based Optimized Object Tracker wit Noise Covariance Parameter and Perfor 14th International Conference on Comp Networking Technologies (ICCCNT), doi: 10.1109/ICCCNT56998.2023.103	h Auto-tuning of Process rmance Verification," 2023 puting Communication and Delhi, India, 2023, pp. 1-6,
	Akhtar, S. B. (2024). Optimizing through extended Kalman filter dyr investigation and performance eval Computational Solutions Integra Applications. ISBN: 978-93-5834-625	namics: A comprehensive luation. In Advances in tive Approaches and

- Akhtar, S. B. (2024). Modelling error factors in GNSS observations for precise point positioning and accurate position estimation of low Earth orbit satellites. In Advances in Computational Solutions Integrative Approaches and Applications. ISBN: 978-93-5834-625-1
- Akhtar, S. B. (2024). Enhanced performance in multiple object tracking: Kalman filter integration with Hungarian algorithm and RMS index optimization. In Advances in Computational Solutions Integrative Approaches and Applications. ISBN: 978-93-5834-625-1
- Akhtar, S. B. (2024). Development of an Arduino-based smart home security system with multi-sensor integration. In Computational techniques in modern engineering research. ISBN: 978-93-6233-525-8
- Akhtar, S. B. (2024). Enhanced measurement models for LEO satellites: Addressing bias, elevation errors, and carrier ambiguity. In Computational techniques in modern engineering research. ISBN: 978-93-6233-525-8
- Akhtar, S. B., et al. (2024). Improving tracking accuracy: Fixed interval smoothing applied to Kalman filter estimates. In Computational techniques in modern engineering research. ISBN: 978-93-6233-525-8
- Akhtar, S. B. (2024). Kalman filter-based multiple object tracking using Hungarian algorithm and performance tuning using RMS index. In Recent Advancements in Computational Intelligence and Design Engineering. ISBN: 978-10-3298-036-2
- Mondal, D., Roy, T. S., Akhtar, S. B., Sannyashi, T. S., & Adhikary, S. (2024). Advancements and applications of IoT-based smart traffic control systems: A comprehensive review. In Computational techniques in modern engineering research (pp. 131-137). https://doi.org/10.62906/bs.book.210
- Mondal, D., Roy, T. S., Akhtar, S. B., Sannyashi, T. S., & Adhikary, S. (2024). ECIS-based cell growth monitoring: A comprehensive review. In Computational techniques in modern engineering research (pp. 139-145). https://doi.org/10.62906/bs.book.210
- Adhikary, S., Roy, T. S., Akhtar, S. B., Sannyashi, T. S., & Mondal, D. (2024). Prediction of kidney disease using machine learning algorithms: A systematic review. In Computational techniques in modern engineering research (pp. 185-191). https://doi.org/10.62906/bs.book.210

	Mondal, D., Adhikary, S., Roy, T. S., Akhtar, S. B., & Sannyashi, T. S. (2024). Non-invasive glucose monitoring: A comprehensive review. In Computational techniques in modern engineering research (pp. 155-162). https://doi.org/10.62906/bs.book.210	
Other salient features	Developed an issue-raising application for the internal project team in TCS. Secured AIR of 1126 in GATE.	
Symposium/Workshop/	Workshops conducted: 01	
Conference/Seminar/We	FDPs attended: 04	
binar		
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