Faculty Profile	**Dr Jasna S B** **Associate Professor** **Department of Information Science and Engineering, EPCET**
	Dr. Jasna S B completed her PhD in Robotics and Artificial Intelligence from Amrita Vishwa Vidyapeetham, Coimbatore, in 2022. With over 12 years of diversified experience in both academia and industry, she has published 21 papers in reputable international journals indexed by Scopus and SCI. In recognition of her contributions, Dr. Jasna has received three best paper awards and is the author of a book on Design Engineering. She actively participates in the academic community as a reviewer for IEEE conferences and Springer Book. Additionally, she has secured funding for two projects from the Karnataka government and one from the Kerala government. Two patency also is under review. Currently, Dr. Jasna is engaged in several R&D projects focused on 3D printing, AI applications, and empathy-based reinforcement learning. Beyond her academic pursuits, she is a talented singer, writer, dancer, and painter, showcasing her diverse interests and creativity.
	Publications • "Performance Analysis of Robotic Path Planning Methods is Static Environments", Springer book chapter - "10.1007/978-981-95-3156-1_7"; Springer publication on November 2025. • "Cooperative Game Theory approach for Multirobot path planning", IJAST (International Journal of Advanced Science and Technology); Elsevier publication, SCOPUS indexed on March 2020. • Remodeled A* algorithm for mobile robots with obstacle positioning" International conference IEEEICCICI, 2016. Got the best paper award and it is published in IEEE explorer in the month of April, 2016. • "Application of Game Theory in Path Planning of Multiple Robots," in ICICICT 2017 and got the best paper award. It is published in IEEE explorer in the month of March 2018 (Scopus indexed). • Dr Jasna S B, et.al on "Predictive Maintenance System for Industrial Machinery", TIJER: International Research Journal, Volume 11, Issue 4 , id: TIJER2404259, ISSN: 2349-9249, Issued in April 2024 • Dr Jasna S B, et.al "Image Processing- Based Online Intelligent Voting System." Volume 12 Issue 5 in IJARESM: International Journal of All Research Education & Scientific Methods in 28th May 2024. • Dr. Jasna S. B, et.al "Resume Analysis for personality Assessment." Volume 12 Issue 5 in IJARESM: International Journal of All Research Education & Scientific Methods in 28th May 2024. • Dr Jasna S B, et.al "Prioritizing Inventory Management: Analytical Network Process for multi criteria decision making." Volume 12 Issue 5 in IJARESM: International Journal of All Research Education & Scientific Methods on 28th May 2024.

- Dr Jasna S B, et.al on "Formation of Data Science and Fundamentals", TIJER: International Research Journal, Volume 11, Issue 4 , id: TIJER2404247, ISSN: 2349-9249, Issued in April 2024
- Dr Jasna S B, et.al on " Virtual reality and Augmentation in new era ", in ICICICT 2024, IEEE conference and got the best paper award. It is published in IEEE explorer in the month of March 2024
- Dr Jasna S B, et.al "Data Science techniques Tools and Predictions" in 7th National Conference on "Emerging Trends in Engineering, Science and Technology"(NCETEST-7), sponsored by IETE held on 30th April 2024

- Ms. Jasna S B, et.al "An Intelligent Mobile Robot Navigation System with Real Time Updating using RFID Technology" in 3rd International Conference on "EPSCICON" sponsored by IEEE held on 10th January 2014.
- Ms Jasna S B, et.al "Efficient Sequential Switching Hybrid Modulation Technique for Multilevel Inverters."28th May 2014.

- Ms Jasna S B, et.al An inverter with coupled inductor" (IJSETR),2014

- Ms Jasna S B, et.al Standalone regulated five level inverter with coupled inductor". (IAEME),2016
- Ms Jasna S B, et.al "Standalone regulated five level inverter". (ICETEM 2014),2016.

Patent
- Application number: P/24-26/0667// 1. Cogni xpert
                                        2. Intellihub

Achievements / Awards / Recognitions
- Best performer award in Amrita Vishwa Vidyapeetham, Coimbatore.
- Best teacher elected by students in ISTE chapter.
- Best paper award in IEEE main conference at Chennai.
- Best paper award in International Conference at Kannur.
- Best project award in the technical conference by KSEB, Kerala.
- Best project award for making Energy efficient design of steel bar manufacturing unit by Energy Conservation Society.
- Best paper in IETE conference, Delhi.

Projects done

- PhD thesis: "Mobility Control of Robotic Agents — A Co-operative Game Theory approach"
- Empathy based reinforcement learning app development.

- An Intelligent Mobile Robot Navigation System with Real Time Updating using RFID Technology.

- Design and Energy Conservation in steel bar manufacturing unit.
- Centralized tracked mower robot with solar assistance

- Revive alert systems

	- AI based multi diseases detection using machine learning for geriatrics - Game based educational app development. - Humanoid robot production. (Going on)