

# Jayarajesh Vattam



**Profile Summary:** I am Mr. Jayarajesh Vattam, Pursuing PhD from NIT Jalandhar, Punjab and did my M Tech from NIT Calicut, Kerala with Specialization Power Systems (Electrical). I had 14.5 years of teaching experience as Assistant Professor of which 11 years as HOD and 3 years as Dean Academics with Alamuri Ratnamala Institute of Engineering and Technology. Currently working as Assistant Professor in EXTC Dept of Don Bosco Institute of Technology, Kurla, Mumbai . My area of expertise includes Signals & Sytems, Digital Signal Processing , Electrical Machines & Hybrid Electric Vehicles.

## Designation: Assistant Professor

### IDs:

- Google ScholarLink: [jayarajesh vattam - Google Scholar](#)
- LinkedIn URL: <https://www.linkedin.com/in/jayarajesh-vattam-b92907214/>
- Orcid ID: <https://orcid.org/0009-0009-9463-3303>

## Educational Details:

Sr. No.	Degree	Board / Institution / University	Year
1	Phd	Dr.B.R Ambedkar National Institute of Technology, Jalandhar (NIT Jalandhar)	Pursuing
2	M.Tech (Power Systems, Electrical)	National Institute of Technology, Calicut (NIT Calicut)	2010
3	B.E ( Electrical & Electronics Engineering)	Andhra University, Visakhapatnam	2008
4	12th	State Board of Intermediate Education, Andhra Pradesh	2004
5	10th	State Board of Secondary Education, Andhra Pradesh	2002

**Date of Joining DBIT: 03-07-2024**

**Area of Specialization:**

- Power Systems (Electrical Engineering)

**Teaching Experiencein DBIT:**

Sr. No.	Position Held	Dates (From-To)
1	Assistant Professor	03-07-2024 to till date

**Total Teaching Experience:**

Sr. No.	Institution	Dates (From-To)	Designation
1	Don Bosco Institute of Technology, Kurla	03-07-2024 to till date	Assistant Professor
2	Alamuri Ratnamala Institute of Engineering & Technology, Shahapur, Thane Dist	25-05-2012 to 30-06-2024	Assistant professor , HOD & Dean Academics
3	CVR Engineering College, Ibrahimpatnam, Hyderabad	01-06-2011 to 30-04-2012	Assistant Professor
4	Vignan's Nirula Institute of technology and Science for Women, Guntur	01-07-2010 to 30-04-2011	Assistant Professor

**Peer Reviewed Journal Papers:**

- Jayarajesh Vattam, S. Apraj, A. Gawade, R. Kuril, and P. Nikam, "Industrial IoT (IIoT) Plant Equipment Monitoring,"*Int. J. All Res. Educ. Sci. Methods (IJARESM)*, vol. 12, no. 4, pp. 4509-4518, Apr. 2024. [Online]. Available: [www.ijaresm.com](http://www.ijaresm.com).
- Jayarajesh Vattam, Sumit. Tiwari, Jayesh Khairnar, Suraj Tripathi, and Akshay Urmude, "Smart Energy Management: Harnessing IoT for Efficient Auditing,"*Int. J. Res. Publ. Rev.*, vol. 5, no. 4, pp. 9098-9102, Apr. 2024.
- Sachin Chouthi and Jayarajesh Vattam, "Performance Analysis of SNR in MIMO OFDM Downlink System,"*Int. J. Adv. Res. Sci. Technol.*, vol. 13, no. 3, pp. 1268-1273, 2024. doi: 10.62226/ijarst20241329.
- Dhiraj. Patil, Mahesh Tarne, Manoj Mahadik, Kiran Valvi, Jayarajesh Vattam, "Microcontroller Based Solar Tracking System,"*Int. J. Res. Publ. Rev.*, vol. 4, no. 5, pp. 5854-5859, May 2023. DOI :<https://doi.org/10.55248/gengpi>
- Jayarajesh. Vattam, Dakshata Vishe, Prachi Pawar, Pratiksha Kapse, and Aniket Suryawanshi, "IoT Based Substation Transformer Protection,"*Int. J. Sci. Res. Eng. Manag. (IJSREM)*, vol. 7, no. 5, pp. 1-8, May 2023. [Online]. Available: [www.ijsrem.com](http://www.ijsrem.com).
- Minal Apandkar and Jayarajesh Vattam, "Dual Axis Solar Tracker,"*Int. J. Sci. Res. Eng. Dev.*,

vol. 5, no. 6, pp. 498-505, Nov.-Dec. 2022. [Online]. Available: [www.ijssred.com](http://www.ijssred.com).

- Minal Apandkar and Jayarajesh Vattam, "Dual Axis Solar Tracker," *Int. J. Sci. Res. Eng. Manag. (IJSREM)*, vol. 6, no. 11, pp. 1-8, Nov. 2022. DOI: 10.55041/IJSREM16991
- M. A. Apandkar and Jayarajesh Vattam, "Dual Axis Solar Tracker," *Int. J. Sci. Res. Eng. Manag. (IJSREM)*, vol. 6, no. 11, pp. 1-8, Nov. 2022. DOI: 10.55041/IJSREM
- Anjali Muneshwar and Jayarajesh Vattam, "Face Detection System with Face Recognition," *International Organization of Research & Development (IORD)*, vol. 9, no. 1, pp. 1-10, 2021. DOI: 10.5281/zenodo.5016190.
- Jayarajesh Vattam, Y. R. Poddar, D. B. Bhangare, R. Sharma, and K. Kedar, "Corona Prevention System for Work Place," *International Journal for Scientific Research & Development*, vol. 9, no. 3, pp. 74-77, 2021.
- Priyanka Ravi Pujari, Oniza Shaikh, Jayarajesh Vattam, and K. T. Jadhao, "Evaluation of Optic Disc from the Retina Using Various Transforms and Study of Blood Vessel Segmentation Methods for Diabetic Retinopathy," *Int. J. Creative Res. Thoughts (IJCRT)*, vol. 6, no. 2, pp. 210-217, Apr. 2018. <http://www.ijcrt.org/papers/IJCRT1813647>
- Jayarajesh. Vattam, Sankaraiah Mogaligunta, and Sheetal Jagtap, "Design of High Performance 32-bit Cryptographic Processor," *Int. Eng. J. Res. Dev.*, vol. 2, no. 2, pp. 1-8, 2021.
- Khaza. Mainoddin and Jayarajesh Vattam, "Fuzzy Based Speed Control of BLDC Motor," *Int. J. Interdisciplinary Innov. Res. Dev. (IJIIRD)*, vol. 2, special issue 3, pp. 98-105, 2017

### Books/ChaptersPublished:

- "AI powered Energy Management for EV charging stations", ISBN:978-93-6674-312-7, Scientific International Publishing House.
- "Set1 New Sorting Algorithms on Data Structures-Example approach", ISBN: 978-99993-1-127-4, Eliva Press, Europe.
- "Application of Deep Learning : Solving Real world problems", ISBN:978-93-6674-699-9, Scientific International Publishing House.

### STTPs/FDPs/WorkshopsAttended:

- Participated in one week FDP program on "**Integration of Artificial Intelligence Techniques to Electric Vehicles and Smart Grid**" by AICTE Training And Learning (ATAL) Academy from 20/01/2025 to 25/01/2025 at Sree Rama Engineering College, Tirupathi.
- Participated in one week FDP program on "**Electric Vehicle & Charging station technology for Sustainable Development**" by AICTE Training And Learning (ATAL) Academy from 13/01/2025 to 18/01/2025 at NIT Jamshedpur.
- Participated in one week FDP program on "**Innovative Tools for Educators: Generative AI and Advanced Excel Mastery**" by Guru Gobing Singh College of Engineering & Research, Nashik from 13/01/2025 to 18/01/2025.

- Participated in one week FDP program on “**Advanced Artificial Intelligence(AI) Techniques & MATLAB Integration**” by Sangivani College of Engineering, Kopargaon from 21/10/2024 to 26-10-2024
- Participated in one week International Level FDP program on “**AI Innovations and MATLAB Solutions**” by Pimpri Chinchwad College of Engineering & Research, RAVET under ISF PCCOER in association with Design Tech and MathWork India & IETE Pune section from College of Engineering, Kopargaon from 23/09/2024 to 28/09/2024.
- Participated in one week FDP program on “**Engineering Projects for Assistive Needs**” by AICTE Training And Learning (ATAL) Academy from 25-11-2019 to 29-11-2019 at NIT Andhra Pradesh.
- Participated in ten day FDP in Communication skills and English language during 20<sup>th</sup> June to 1<sup>st</sup> July 2011 at CVR Engineering College, Hyderabad

### Participation in SWAYAM MOOCs/NPTEL/Certification Courses Attended:

- NPTEL online certification exam on 8 week course on “**System Design Through Verilog**”, secured a consolidated score of 72% between July-Sep 2024.

### PatentsGranted:

- “AI Based Solar Powered EV Charging Station”, Design no: 414724-001, 24/04/2024.

### ProfessionalBodyMemberships:

- ISTE Lifetime Member –

### Achievements/Awards/Recognitions:

- Got an all India rank of **766** with a **Percentile** of **94.93** in GATE-2008
- Qualified GATE exams in **2008,2012,2013,2015,2017,2019,2020**

### Interactions with Professional Institutions:

- Invited as Jury at Regional Project Competition at Don Bosco Industrial Training Institute on 17/02/2025

### Other Achievements & Responsibilities:

- Got an all India rank of 766 with a Percentile of 94.93 in GATE-2008

- Qualified GATE exams in 2008,2012,2013,2015,2017,2019,2020
- Design Patent on “AI Based Solar Powered EV Charging Station”, Design no: 414724-001, 24/04/2024.
- Successful passed NPTEL Swayam exam on “System Design Through Verilog”
- Published a books on “AI powered Energy Management for EV charging stations”, ISBN:978-93-6674-312-7, Scientific International Publishing House.
- Published a books on “Set1 New Sorting Algorithms on Data Structures-Example approach”, ISBN: 978-99993-1-127-4, Eliva Press, Europe.
- Published a books on “Application of Deep Learning : Solving Real world problems”, ISBN:978-93-6674-699-9, Scientific International Publishing House.

### **PG / Ph.D.Guidance:**

No of PG Students Guided : **5**

### **ContactDetails:**

- Email ID: jayarajesh@dbit.in