



SETHU INSTITUTE OF TECHNOLOGY

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Department of Electrical and Electronics Engineering		
Name	T.Harish Babu	
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Educational Qualifications	M.E	
Designation	Assistant Professor	
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Experience	Teaching	Total
	13.5	12.5
Date of Joining the Institution	04.06.2014	
Area of Specialization	Power Systems Engineering	
Courses taught	Instrumentation Engineering, Linear Integrated Circuit, Renewable Energy	
Research Focus	Renewable Energy	
Subject Competency		
No. of papers published	International Journals	Conferences
	9	5
PG Specialization	Power Systems Engineering	
Projects Carried out	UG -8	
Patents (Filed & Granted)	1 - Granted	
No. of Books published with details (Name of the book, Publisher with ISBN, year of publication, etc.)	1- Novel AI Applications for Advancing Earth Sciences ISBN No. 979-8-3693-1850-8 Year: 2024	



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Academic Credentials

Level	Degree	Specialization	University	Year of Completion
UG	B.E	Electronics and Instrumentation Engineering	Anna University	2009
PG	M.E	Power Systems Engineering	Anna University	2011

Details of Journal Publication:

1. T Harish Babu, M Malini, Munigeti Benjmin Jashva, M Sheerin Banu, N Jayanthi, C Umarani, , Advanced Signal Processing For IoT Device Communication In Smart Homes, ISBN:979-8-3315-4238-2 IEEE Publication, 16 April 2025.
2. T Harish Babu, U Archana, Sarvdaman Sharma, Sitesh Kumar Singh, Analysis Of Concrete Cracks And Fatigue In Smart Cities Using Yolov3, ISBN:979-8-3503-0571-5, IEEE Publication, 03 January 2024
3. T. HarishBabu, C. Immanuvel, S. Syed Abdul Haq, R. JeyaRohini , P. Meenalochini, K. Jeyakanth , A sinusoidal pulse width modulation (SPWM) technique for capacitor voltage balancing of nested I-type four-level inverter , Science Direct , Volume 45, Part 2, 2021, Pages 2435-2439.
4. T.Harish Babu, R.Karthick P.Meenalochini,S. Syed Abdul Haq, R.Mohammed Abdullah, Abdul Kareem.M, A Novel Hybrid Multilevel Inverter with Switch Reduction, International Journal of Advanced Science and Technology, Vol. 29, No. 4s, (2020), pp. 3018-3023
5. T.Harish Babu, R.Mohammedabdullah, , S.Syed Abdul Haq, K.Elavarasi, A Novel Hybrid Multilevel Inverter with Switch Reduction, International Journal of Advanced Research in Electrical, Electronics and Instrumentation Engineering, ISSN 2278-8875, Vol.8, Issue 3, March 2019
- 6 T Harish Babu Jothi R Lakshmi,Jayaprakash J, Kokilavani D, Non-linear Plant model Inversion technique using Fuzzy Logic Controller, International Journal of Applied Engineering Research, ISSN 0973-4562 Vol.10 No.70 (2015)
7. T Harish Babu, Jayaprakash J, Senthil Rajan T, Rajeswari R, Analytical Method of Obtaining Inverse Model of Nonlinear Process Using Fuzzy Nonlinear Internal Model Control, ARPN Journal of Engineering and Applied Sciences, ISSN 1819-6608, VOL. 10, NO. 9, MAY 2015
8. T. Harish Babu, J.Jayaprakash, T. SenthilRajan, Comparison of Series and Improved Z-Source Inverter for Voltage Stress, International Journal of Applied Engineering Research, ISSN 0973-4562 Vol. 10 No.1 (2015) pp. 45-49
9. T. Harish Babu, J.Jayaprakash, T. SenthilRajan, Analysis of Modelling Methods of Quadruple Tank System, International Journal of Advanced Research in Electrical, Electronics and Instrumentation Engineering, Volume 3, Issue 8, August 2014, pp. 11552-11565.

Details of Conference attended:

1. T Harish Babu, M Malini, Munigeti Benjmin Jashva, M Sheerin Banu, N Jayanthi, C Umarani, , Advanced Signal Processing For IoT Device Communication In Smart Homes, 2025 International Conference on Automation and Computation (AUTOCOM), IEEE, 1537-1542.
2. T Harish Babu, U Archana, Sarvdaman Sharma, Sitesh Kumar Singh, Analysis Of Concrete Cracks And Fatigue In Smart Cities Using Yolov3, 2023 International Conference on Research Methodologies in Knowledge Management, Artificial Intelligence and Telecommunication Engineering (RMKMATE), IEEE, 1-6
3. T. Harish Babu, Ramesh Prabhu.S, A cascaded inverter with phase shift technique for reduction in switch loss, 2017 International Conference on Innovation in Information, Embedded and Communications Systems (ICIIECS)
4. T. Harish Babu, J.Jayaprakash, T. SenthilRajan, Comparison of Series and Improved Z-Source Inverter for Voltage Stress, IEEE Sponsored 9th International Conference on Intelligent Systems and Control (ISCO) 2015.
5. T Harish Babu, Jayaprakash J, Senthil Rajan T, Rajeswari R, Analytical method of obtaining Inverse Model of nonlinear process using Fuzzy Nonlinear Internal Model Control, IEEE Sponsored 2nd International Conference on Innovations in Information Embedded and Communication Systems ICIIECS'15

Details of Book Chapter and Books Published:

1. **Book Name:** Novel AI Applications for Advancing Earth Sciences

Book Chapter Title: An early warning system for predicting earthquakes

Publisher, Page No, Year: IGI Global Scientific Publishing, 165-185, 2024

Details of Patents Filed and Granted:

1. Patent Granted – 1 High-Performance Electric Motor for Automotive Applications - 21/03/2025