


SRES', Sanjivani College of Engineering, Kopargaon
(An Autonomous Institute affiliated to SPPU, Pune)

Staff Profile

Personal Information			
Name of Teaching Staff: Dr. N. K. Darwante			
Designation: Associate Professor			
Department : Electronics and Computer Engineering			
Date of joining : 20/07/2006			
E Mail ID :		darwantenavnathetc@sanjivani.org.in	
Contact No:		8788796514	
Education Details			
Qualification	Specialization with Class or Grade	University	Year
UG	BE (E&Tc), First Class with Distinction	Dr. B. A. M. U. Aurangabad	2000
PG	MBA (Marketing), First Class	I.G.N.O.U. Delhi	2006
PG	ME (Electronics), First Class	Dr. B. A. M. U. Aurangabad	2009
Ph.D	Electronics Engineering	Research Centre: NIELIT Aurangabad , University: Dr. B. A. M. U. Aurangabad	2019
Total experience in years:			
Teaching:		18 years	
Industry:		6 Years	
Research and Publications			

1. M.A. Jawale, P. William, N.K. Darwante, V. Verma, S.S. Ingle, D. Roy, "Enhancing the Implementation and Reliability of Nanomaterial Detectors through Deep Learning Optimization", Journal Of Nano- And Electronic Physics, Vol. 16 No 5, 05002(6pp) (2024), ISSN: 2077-6772 (Print), e-ISSN: 2306-4277 (Online)
DOI: [https://doi.org/10.21272/jnep.16\(5\).05002](https://doi.org/10.21272/jnep.16(5).05002)
2. V.M. Tidake, P.M. Patare, P.B. Khatkale, A.A. Khatri, P.M. Yawalkar, S.S. Ingle, N.K. Darwante, "An Innovative Classification Approach for Predicting Physical Properties in Nanoparticles", Journal Of Nano- And Electronic Physics, Vol. 16 No 5, 05011(5pp) (2024), ISSN: 2077-6772 (Print), e-ISSN: 2306-4277 (Online)
DOI: [https://doi.org/10.21272/jnep.16\(5\).05011](https://doi.org/10.21272/jnep.16(5).05011)
3. P. Pangavhane, S. Kolse, P. Avhad, T. Gadekar, N. K. Darwante and S. V. Chaudhari, "Transforming Finance Through Automation Using AI-Driven Personal Finance Advisors," 2023 4th International Conference on Computation, Automation and Knowledge Management (ICCAKM), Dubai, United Arab Emirates, 2023, pp. 1-5, doi: <https://doi.org/10.1109/ICCAKM58659.2023.10449538> (e-ISSN:979-8-3503-9324-8, ISBN:979-8-3503-9325-5)
4. N. K. Darwante, A. Sonawane, A. Suralkar, R. V. Pralhad and P. William, "Hybrid Model for Robotic Surveillance using Advance Computing Techniques with IoT," 2023 3rd International Conference on Pervasive Computing and Social Networking (ICPCSN), Salem, India, 2023, pp. 1301-1306, doi: <https://doi.org/10.1109/ICPCSN58827.2023.00219> E-ISSN:979-8-3503-2284-2, Print ISBN:979-8-3503-2285-9
5. Darwante Navanath Karbhari, Agarkar Balasaheb Shrirangrao, Naseemudin Siddiqui, Chaudhari Sachin Vasant; Perception of objects qualities using deep learning CNN architecture 'NavNet'. AIP Conference Proceedings 24 August 2023; Vol. 2790 (issue 1): 020026. <https://doi.org/10.1063/5.0152824> (ISSN 0094-243X (print) 1551-7616 (web))
6. William, P., Darwante, N.K., Pawar, A.B., Jawale, M.A., Verma, A. (2023). Framework for Implementation of Smart Driver Assistance System Using Augmented Reality. In: Marriwala, N., Tripathi, C., Jain, S., Kumar, D. (eds) Mobile Radio Communications and 5G Networks. Lecture Notes in Networks and Systems, vol 588. pp. 365-383 Springer, Singapore. https://doi.org/10.1007/978-981-19-7982-8_30
7. P. William, A. Gupta, N. K. Darwante, S. S. Gondkar, A. Verma and V. Verma, "Applications of Internet of Things in Smart Grid Intelligent Systems," IEEE Xplore published 2022 International Conference on Augmented Intelligence and Sustainable Systems (ICAISS), Trichy, India, 2022, pp. 1175-1179, doi: 10.1109/ICAISS55157.2022.10011092.

8. V. Prasad, P. Venkateswarlu, S. S. H. Raju and N. K. Darwante, "ANN Modelling based on Machine Learning Approach to Accomplish Energy Source," IEEE Xplore Published 2022 6th International Conference on Electronics, Communication and Aerospace Technology, Coimbatore, India, 2022, pp. 1278-1284, doi: 10.1109/ICECA55336.2022.10009292.
9. N. K. Darwante, Dr. D. Nageswari, Ms Jaishree.M, Dr Rama Chaithanya Tanguturi, M. K. Mariam Bee, Dr. C M Velu "A Graphical System Design for Analysing Medical Images and its Applications" NeuroQuantology (eISSN 1303-5150), Vol. 20, Issue 9, pp 6316-6326, doi: 10.14704/nq.2022.20.9.NQ44741, September 2022
10. N. K. Darwante, Dr Srinivas Kuntamalla, Dr. Mayuri Kundu, B.Shashikanth, Dillip Narayan Sahu, Subhash Yalavarthy, "A Novel Soft Computing Techniques for Intricate Data mining" , NeuroQuantology (eISSN 1303-5150), Vol. 20, Issue 10, pp.4441-4454 doi: 10.14704/nq.2022.20.10.NQ55429, August 2022
11. Sachin Vasant Chaudhari, Navanath K. Darwante, " Performance Analysis of Rician Channel In Orthogonal Frequency Division Multiplexing, "Journal of Advances and Applications in Mathematical Sciences (ISSN 0974-6803), Mili Publications, Volume 21, Issue 9, pp 5145-5151, July 2022. DOI: 10.48550/arXiv.1303.4036
12. Aarti Hemant Tirmare, Revanna C R, Dankan Gowda V, Ramesha M and N. K. Darwante (2022), A Morphological Change in Leaves-Based Image Processing Approach for Detecting Plant Diseases. IJEER 10(4), 1013-1020. DOI: 10.37391/IJEER.100443.
13. Sheetalrani R Kawale , kamalakara Ravindra Desai , Parismita Sarma , **N. K. Darwante** , C M Velu , Pundru Chandra Shaker Reddy, "Machine Learning Tool Development And Use In Biological Information Decoding, Journal of Positive School Psychology (JPSP) (ISSN: 2717-7564), Vol. 6 No. 6 (2022)
14. Praveena, K., Venkatesh, U. S., Sahoo, N. K., Ramanan, S. V., Bee, M. K. M., & Darwante, N. K. (2022). Brain tumor detection using ANFIS classifier and segmentation. International Journal of Health Sciences, 6(S3) (ISSN 2550-6978). , Vol. 6, special issue 3, <https://doi.org/10.53730/ijhs.v6nS3.8937>
15. A. P, A. Sharma, S. B. M, P. Pavankumar, N. K. Darwante and D. G. V, "Performance Monitoring and Dynamic Scaling Algorithm for Queue Based Internet of Things," IEEE Xplore published 2022 International Conference on Innovative Computing, Intelligent Communication and Smart Electrical Systems (ICSES), 2022, pp. 1-7, doi: 10.1109/ICSES55317.2022.9914108.
16. N. K. Darwante, Dr. U. B. Shinde, "Comparison of Self Developed Deep CNN Architecture with State of Art Existing Techniques", CiiT International Journal of Artificial Intelligent Systems and Machine Learning, Print: ISSN 0974-9667 & Online: ISSN 0974-9543, volume 10 No. 3, pp 72-76, March 2018.

17. N. K. Darwante, Dr. U. B. Shinde, "Enhanced Feature Development Method for Object Recognition in Real Images" Academic science international Journal of Electronics, Electrical and Computational System ISSN 2348-117X, Volume 4, Issue 6, PP 17-26, June 2015.
18. N. K. Darwante, Dr. U. B. Shinde, "Object Detection Using Convolution Neural Network", International Journal of Advanced in Management, Technology and Engineering Sciences, ISSN NO: 2249-7455 Volume 8, Issue II, pp 422-426, FEB/2018. DOI:16.10089.IJAMTES.2018.V8I01.15.2051
19. Dr. N. K. Darwante "Deep Learning based CNN Architecture 'NavNet' For the Identification of Object Class and Qualities in Real Images" CiiT International Journal of Artificial Intelligent Systems and Machine Learning, Print: ISSN 0974-9667 & Online: ISSN 0974-9543, Vol 13, No 2, pp 17-21 February 2021.
20. N. K. Darwante, Dr. U. B. Shinde, "Identification of Objects Class and Qualities using Deep CNN Based Architecture", World Journal of Technology, Engineering and Research, Volume 2, Issue 1 (2017), pp 93-101, Nov. 2017.

Papers presented in conferences:

A. International Conference

1. N. K. Darwante, L. D. Narote, 'Automated Teller Machine Using Embedded System, International Conference ICEVD-2008, PDVVP COP Ahemadnagar, 20th –21st March 2008.
2. N. K. Darwante, L. D. Narote, 'CRC check for AVR microcontroller program memory, Pravara International conference on emerging trends in engineering, Pravara COE Pravaranagar , 20th –22nd December 2008.
3. N. K. Darwante, L. D. Narote, 'CRC check for AVR microcontroller program memory, Pravara International conference on emerging trends in engineering, Pravara COE Pravaranagar , 20th – 22nd December 2008.

B. National Conference

1. N. K. Darwante , J. G. Rana, 'Effective ICU Gas Parameter Monitoring and control System', ACES-09 National Conference on Emerging trends in Electronics, J.N.E.C. Aurangabad, 8th - 9th January 2009.
2. N. K. Darwante, Dr. D. N. Kyatanavar, L. D. Narote, ' Effective Wireless Communication System in Caves, Sanjivani Vision-2011, National Conference on Emerging trends in Engineering, SRES College of engg. Kopargaon ,12-13 March 2011.
3. N. K. Darwante, Dr. U. B. Shinde, "Efficient CNN Architecture 'NavNet' For the Identification of Object Class and Qualities in Real Images", Sanjivani Vision 2018-National Conference on Advances in Engineering and Management (NCAEM)-18, Dec. 2018.
4. S.Shinde, N.Jadhav, P.Bhavar, S.Nikhade, Dr. N. K. Darwante, "Smart Electric Shock Alert System", National conference on Communication and signal processing system (NCCSS-21), R.M.K. College of Engineering and Technology, 8-9 Oct. 2021.

Research Profile URL

Google Scholar

- https://scholar.google.co.in/citations?hl=en&view_op=list_works&authuser=2&gmla=AHoSzIWji-GAA98YL8waPdDRQZy-7ahKAzTdeKSW8OCqeRpIWq0t8RGrrWDaSuTOgAhCymbIGZOnjxsMqn0-xRpPhB&user=10qKI5gAAAAI

Scopus	https://www.scopus.com/authid/detail.uri?authorId=57958090800		
WoS	https://www.webofscience.com/wos/author/record/GXG-4521-2022		
Orcid	https://orcid.org/0000-0001-5881-9332		
Other Research Details			
Ph D Guide ?Give field & University:	Yes (SPPU Pune)		
PhDs/ Projects Guided:	32		
Books Published	-		
IPRs/Patents	3		
Professional Memberships:	IEEE Professional Membership, IEEE Computational Intelligence Society Membership		
Interaction with professional institutions	IEEE, GRSS		
Consultancy Activities			
Duration	Title of Activity	Issued Organization	Amount
2020-21	SPM for cost reduction	NIMA	20000
Grants fetched			
Duration	Title	Issued Organization	Amount
Awards			
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FACULTY DEVELOPMENT PROGRAMMES ATTENDED			
Name of the FDP / Workshop	Organization	Duration	Month-Year
workshop on -Effective Research Methodology	SRES College of Engg.Kopargaon.	28/01/2010	

workshop on -Syllabus detailing of SE (Elex/ETC) Sem-II subjects (2008 course)	S.G.R.E.F's COE & management, Chas, A'nagar.	12/01/2010
workshop on -Syllabus Detailing of B.E – Mobile communication subject (2008 course)	K.K. wagh institute of Engineering Education and research.	16/07/2011
workshop on -Virtual reconfigurable hardware	e-Prayog IIT Bombay at SRESCO	04-05/02/2012
Faculty Orientation Program for subject EDC (2012 PATTERN)	SITS, Narhe, Pune	05/11/2014
.MATLAB and Simulink in Engineering Education	SRES College of Engg.Kopargaon	08/08/2015
STTP on ' Implementation of IOT and Image processing using Raspberry PI.	Vishwakarma Institute of Technology	11 th to 14 th Nov. 16
Conducted workshop 'Introduction to PROTEUS ISIS simulation and ARES design software'	SRES College of Engg. Kopargaon	05/08/2015
workshop 'Virtual Lab'	SRES College of Engg. Kopargaon	04/04/2016
FDP on ' Recent Trends in Energy Research'	Dr. Babasaheb Ambedkar Technological University, Lonere.	7-11 Dec. 2015
Four days' workshop 'Introduction to PROTEUS ISIS simulation and ARES design software'	Sanjivani College of Engg. Kopargaon	10-13 Aug. 2016
One week STTP on 'Nature inspired computations in Engineering'	Dr. Babasaheb Ambedkar Technological University, Lonere	18-22/05/2015
Faculty oriented workshop B.E. (E&Tc) revised syllabus 2015 course for the subject- Mobile Communication	BOS, SPPU , Pune	13-14/12/2018
Conducted capsule course on ' Python Programming' for TE (E&Tc) students	Dept. of E&Tc, Sanjivani COE	AY 2018-19, Sem.II

AICTE Sponsored 3 day student induction program	Dr. DY. Patil COE, Akurdi	13-15/05/2019
AICTE Sponsored 7 day student induction program	CSMSS's Chh. Shahu College of Engg.	10-16/06/2019
One day workshop of 'eSim, a first course in the IoT Series for Teachers'	IIT Bombay at remote centre	21/09/2019
Two week AICTE Sponsored FDP on "Emerging Trends in Speech, Image & Video Processing Techniques"	Sanjivani College of Engineering Kopargaon	25 Nov. To 7 Dec. 2019
Conducted capsule course on 'Python Programming' for TE (E&Tc) students	Dept. of E&Tc, Sanjivani COE	AY 2019-20, Sem.II
One-week Online Faculty Development Program on "New Challenges & Issues of Indian Electricity Market for Upcoming Decade-2030"	Sandip Institute of Technology & Research Centre, Nashik	11/05/2020 to 15/05/2020.
AICTE Training And Learning (ATAL) Academy Online FDP on "Medical Image Processing And Deep Learning Technologies"	Panimalar Institute of Technology.	21/09/2020 to 25/09/2020
5-day online FDP on "Universal Human Values for DEEKSHARAMBH (Student Induction Program)"	organized by NIT Patna	21 to 25 September 2020
AICTE Sponsored One Week Online Short Term Training Programme (STTP) Series - 1 on "Long Range (LoRa) Wireless Area Networks: A Futuristic Approach "	K S R Institute For Engineering And Technology	19/10/2020 to 24/10/2020.
AICTE Training And Learning (ATAL) Academy Online FDP on "Artificial Intelligence"	Gyan Ganga Institute of Technology & Sciences, Jabalpur	4 – 8 Jan 2021
One day webinar on "National Education policy 2020 with special reference to HEI's"	Sanjivani College of Engineering, Kopargaon	10/04/2021

Awareness workshop – NIRF India Ranking 2021	Joint collaboration of Institute of Academic Excellence, Hyderabad and collegiate education and technical education department, Govt. of Telangana.	18 - 19 Jan 2021
Online training/Webinar on “IEEE Xplore”	EBSCO & IEEE	12/08/2021
AICTE Training And Learning (ATAL) Academy Online Advanced FDP on "Introductory Data Science and Deep Learning"	International Institute of Information Technology - Naya Raipur.	16/09/2021 to 20/09/2021
AICTE Training And Learning (ATAL) Academy Online Elementary FDP on "ROBOTICS"	Katihar Engineering College, Katihar	23/08/2021 to 27/08/2021
AICTE Training And Learning (ATAL) Academy Online Elementary FDP on "Machine Learning in Medical Image Processing"	Katihar Engineering College, Katihar	05/09/2021 to 09/09/2021
Conducted Capsule course for all COE students on 'Python for Data Science and Machine Learning'	For all branches of Sanjivani College of Engineering, Kopargaon	01/10/2021 To 14/10/2021
Participated in ISTE Approved Short Term Training Program on “Incorporating Universal Human Values in Technical Education”	organized by Department of Electronics and Telecommunication Engineering, KJCOEMR, Pune-48	07th–11th October 2024
one Week Faculty Development Program on, Advances in 5G and Next Generation Networks (5GNGN) virtually During.	organised by the Dept. of E&TC Engg, Sinhgad Institute of Technology, Lonavala & Dept. of EE, Yeshwantrao Chavan College of Engineering Nagpur. The FDP is Technically Sponsored by IEEE Bombay Section and Supported by IEEE SITSB & YCCESB	June 26-30, 2023

FACULTY DEVELOPMENT PROGRAMMES ORGANIZED				
Name of the FDP / Workshop	Organization	Duration	Month-Year	Capacity
AICTE Sponsored FDP on “Emerging Trends in Speech, Image & Video Processing Techniques”	AICTE sponsored FDP conducted at Sanjivani College of Engineering	Two week	25 Nov. To 7 Dec. 2019	60
INVITED LECTURES IN CONFERENCE/SEMINAR				
Title of Lecture/ Academic Session	Title of Conference/ Seminar etc.	Organized By		

OTHER Professional URLs	
Personal Website	-
Linked In Profile	https://www.linkedin.com/in/darwante-n-k-42a88722/
GitHub URL	https://github.com/darwante
YouTube Channel	https://studio.youtube.com/channel/UCay_0Zo6KDSXHMgw0e_LrNQ
Other	-