



DHANEKULA INSTITUTE OF ENGINEERING & TECHNOLOGY

(Autonomous)

GANGURU :: VIJAYAWADA – 521 139.

(Approved by AICTE New Delhi, Permanently Affiliated to JNTU Kakinada)

ISO 9001:2015 Certified Institution, Accredited by NBA for ME, EEE, ECE&CSE.

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FACULTY PROFILE



Name of the Faculty: SREELAKSHMI SANKA

Designation : Assistant Professor

Email & Phone No: sanka.96142@gmail.com & 8790911446

Department Electrical and Electronics Engineering.

Educational

Background 1.B.Tech From Sri Sai Institute Technology & Science, Rayachoty.

2. M.Tech From Jawaharlal Nehru Technological University, Ananthapuram.

3. Ph.D pursuing in JNTUA, Ananthapuram.

Research Areas : Powersystems, Power Electronics, Renewable energy Sources

Experience : 13.3 Years

S. No	Institute	Designation	Period
1	DIET	Assistant Professor	Aug 2024 to till date
2	MBU	Assistant Professor	Feb 2022 to Feb 2023
3	MREM	Assistant Professor	Sep 2020 to Feb 2022
4	MeRRITS	Assistant Professor	Sep 2013 to Sep 2020
5	JNTUA	Assistant Professor	Sep 2011 to Apl 2013
6	SSITS	Assistant Professor	June 2007 to June 2009

List of Publications (National and International Journals)

- 1 Sanka Sreelakshmi, Machineni Sanjeevappa Sujatha, Jammy Ramesh Rahul, "Improved Seven Level Multilevel DC-Link Inverter with Novel Carrier SPWM Technique", Journal of Circuits, Systems, and Computers(JCSC), Vol.32, issue no. 6(2023), 2350108(Pages), ISSN(0218-1266) <https://doi.org/10.1142/S0218126623501086> May 2022. (SCI- Indexing), World scientific publishing company.
- 2 Sanka Sreelakshmi, Machineni Sanjeevappa Sujatha, Jammy Ramesh Rahul, "Multi-level inverter with novel carrier pulse width modulation technique for high voltage applications", Indonesian Journal of Electrical Engineering and Computer Science, Vol. 26, No. 2, May 2022, pp. 667~674. Journal homepage: <http://ijeecs.iaescore.com> ISSN: 2502-4752, DOI: 10.11591/ijeecs.v26.i2.pp667-674 (Scopus- Indexing)
- 3 Sanka Sreelakshmi, and M S Sujatha, "Novel Hybrid Pulse Width Modulation Technique for Solar Fed Cascaded Multilevel DC-Link Inverter", Helix (2020)10 (3): 36-41, <https://doi.org/10.29042/2020-10-3-36-41>. (ESCI),ISSN: 2319-5592
- 4 Sanka Sreelakshmi, and M S Sujatha, "Mitigation of Harmonics for Eleven-Level Cascaded Multilevel Inverter using SPWM and SHE Techniques", Helix (2020) 10 (2): 168-177, doi:10.29042/2020-10-2-168-177. (ESCI)
- 5 Sanka Sreelakshmi, Machineni Sanjeevappa Sujatha, Jammy Ramesh Rahul, "Reduced switched seven level multilevel inverter by modified carrier for high voltage industrial applications", International Journal of Power Electronics and Drive Systems (IJPEDS), Vol. 14, No. 2, June 2023, pp. 872~881, ISSN: 2088-8694, DOI: 10.11591/ijped.v14.i2.pp872-881, December 2022. (Scopus- Indexing)
- 6 Sanka Sreelakshmi, Machineni Sanjeevappa Sujatha, Parimalasundar, K. Suresh, " Mitigation of harmonics for five level multilevel inverter with fuzzy logic controller, *Electrical Engineering & Electromechanics*, 2023, no. 4, pp. 52-56.(ESCI and SCOPUS indexing),

DOI: <https://doi.org/10.20998/2074-272X.2023.4.08>

INTERNATIONAL CONFERENCE PAPERS

- 1 Sanka Sreelakshmi, M S Sujatha and JR Rahul, "Modified Design and Implementation of Single Phase Seven Level Inverter with Different PWM Techniques", 2nd International Conference for Emerging Technology (INCET), Belgaum, India. May 21-23, 2021, 978-1-7281-7029-9/21/\$31.00 ©2021 IEEE,

[10.1109/INCET51464.2021.9456285](https://doi.org/10.1109/INCET51464.2021.9456285) (Scopus- Indexing).

- 2 Sanka, Sreelakshmi, and M. S. Sujatha. "Recent progress on multilevel inverters and its applications", AIP Conference Proceedings, vol. 2039, no. 1, p. 020016 (10 pages), 2018. <https://doi.org/10.1063/1.5078975>. (Scopus- Indexing)
- 3 Sanka Sreelakshmi, M S Sujatha, "Multilevel inverter with different switching techniques", International E-Conference On Energy, Control, Computing & Electronic Systems,- E-ICECCES2020), ISBN:978-81-949879-4-9.
- 4 Sanka Sreelakshmi, M S Sujatha and JR Rahul, "Multi level inverter with novel carrier pulse width modulation technique and its application", Proceedings of the national level conference on recent trends in engineering and technology-(RTET-2021), ISBN: 978-81-954701-0-5, pg-17-23.
- 5 Sreelakshmi Sanka, and M. S. Sujatha, "Performance Comparison of Cascaded Multilevel Inverter using PO-SPWM Technique for Different Levels", Proceedings of ICSARQCSMM19, 11th -13th Dec, 2019, JNTUACE (A), Ananthapuramu, A.P., India. ISBN: 9789 3539.
- 6 Sreelakshmi Sanka, M. S. Sujatha, "Seven level multilevel inverter with different control strategies", Proceedings of the national level conference on recent trends in engineering and technology-(RTET-2021), ISBN: 978-81-954701-0-5, pg-24-32.
- 7 Sreelakshmi Sanka, S.S Deekshit, "Design of 3-Phase current-Fed unfolded Inverter", *IJMETMR*, ISSN NO. 2348-4845, 2015.

Achievements / Awards :NIL

SREELAKSHMI SANKA