

## B N Shashikala

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### Education

|   | Degree | Year | Institute                                                   | Specialization       |
|---|--------|------|-------------------------------------------------------------|----------------------|
| 1 | Ph. D  | 2017 | Dr. MGR University, Chennai                                 | GaN Power devices    |
| 2 | ME     | 1994 | Poojya<br>Doddappa Appa College of<br>Engineering, Gulbarga | Power<br>Electronics |
| 3 | BE     | 1990 | Sri Siddhartha Institute Of<br>Technology, Tumkur           | Electronics          |

### Professional Experience

|   | Date (from-to)             | Designation            | Organization                       |
|---|----------------------------|------------------------|------------------------------------|
| 1 | 1/1/2011 to till<br>date   | Associate<br>Professor | Siddaganga Institute of Technology |
| 2 | 24/7/2006 to<br>31/12/2010 | Assistant Professor    |                                    |
| 3 | 11/9/1995 to<br>23/7/2006  | Lecturer               |                                    |

### Courses Taught

#### Undergraduate Courses

- Foundation of Electronics Engineering
- Digital Electronics Circuits
- Electronic Measurement
- Integrated Circuits and Applications

- Power Electronics
- Object Oriented Programming with C++
- Microprocessor and Interfacing
- Solid state Devices & Technology
- Microcontroller
- Signals and System
- Network Analysis
- Control System
- Data Structures in C

#### Research Areas

- Application Specific Integrated Circuits
- Introduction to Python Programming
- Microelectronics
- GaN devices

#### Publications

#### Journals

- Shashikala B.N., Nagabhushana B.S , “Reduction of reverse leakage current at the  $\text{TiO}_2/\text{GaN}$  interface in field plate Ni/Au/n-GaN Schottky diodes,” Semiconductor Physics, Quantum Electronics and Optoelectronics, Volume 24, pp. 399-406, 2021.  
[DOI:10.15407/spqeo24.04.399](https://doi.org/10.15407/spqeo24.04.399)
- Shashikala, B. N., Nagabhushana, B. S, “Ohmic contact characterization using image processing,” International Journal of Electrical and Computer Engineering, Volume 5, pp. 1347-1353, 2015.
- Shashikala, B. N., Nagabhushana, B. S., “Denoising ohmic contact image using spatial filter,” International Journal of Applied Engineering Research, **Volume** 10, pp. 20779-20786, 2015.

#### Conference Proceedings

- Shashikala B.N.;Lavanya K.P.;Nagashree D.;Pragathi Reddy P.;Yashaswini U., "Automatic Solar Wall Painting Robot," International Conference on Smart Systems for Applications in Electrical Sciences Icsses 2025, **Year** 2025  
[DOI:10.1109/ICSSES64899.2025.11009442](https://doi.org/10.1109/ICSSES64899.2025.11009442)
- Shashikala B.N., Vaidya R.V.;Rudresh A.N., Naveen Gowda H.R., Hallad S.B., "Autonomous Agriculture System," International Conference on Smart Systems for Applications in Electrical Sciences, ICSSES 2024, **Year** 2024  
[DOI:10.1109/ICSSES62373.2024.10561271](https://doi.org/10.1109/ICSSES62373.2024.10561271)
- Shashikala B.N.;Pooja R.;Prahallad P.;Ramya S.K.;Ramyashree M.V., "Design and implementation of Kogge-stone, Sparse Kogge-stone and spanning tree adder," International Conference on Smart Systems for Applications in Electrical Sciences, ICSSES 2023, **Year** 2023  
[DOI:10.1109/ICSSES58299.2023.10200644](https://doi.org/10.1109/ICSSES58299.2023.10200644)
- Deepti T.S.;Shashikala B.N., "Smart Food Wastage Reduction Management System," 13th International Conference on Advances in Computing, Control, and Telecommunication Technologies, 2022, **Volume** 8, **Year** 2022.
- BN Shashikala ., BS Sudha ., Sayantam Sarkar., "Efficient Implementation of Radix-2 FFT Architecture using CORDIC for Signal Processing Applications," Proceedings - 5th IEEE International Conference on Recent Trends in Electronics, Information and Communication Technology, RTEICT 2020, **Year** 2020.
- Akhil, C.;Manjunath, N.;Sanjith, R.;Suhas, P.;Shashikala, B. N., "Leg rehabilitation and mobility aid for paralytic patients using bionics," Proceedings of the 2016 2nd International Conference on Applied and Theoretical Computing and Communication Technology, iCATccT 2016, **Year** 2017.
- Shashikala, B. N.;Nagabhushana, B. S., "Modeling of GaN MESFETs at high temperature," Proceedings of the International Conference on Microelectronics, ICM, **Year** 201.