

Dr. K. PRIYADHARSHINI

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Educational Qualification

Doctoral Degree: Ph.D. in BIO-ELECTRONICS

Department: Electronics and Instrumentation

College: Bharathiar University, Coimbatore.

Year of completion: March 2024

Post Graduate Degree: M.Sc. APPLIED ELECTRONICS

College: PSG College of Arts & Science, Coimbatore.

Percentage of Marks: 90.15 %

Graduated Year: May2018

Under Graduate Degree: B.Sc. ELECTRONICS

College: PSG College of Arts & Science, Coimbatore.

Percentage of Marks: 82.15%

Graduated Year: May2016

Examination: HSC (State Board)

School: St. Aloysius Girls Higher Secondary school, Dharapuram.

Percentage of Marks: 78.82%

Year of completion: April 2013

Examination: SSLC (State Board)

School: St. Aloysius Girls Higher Secondary school, Dharapuram.

Percentage of Marks: 75.81%

Year of completion: April 2011

Work Experience: 1

Organization: **ST. JOSEPH'S COLLEGE**, (<https://www.sjctni.edu>).
Designation: Assistant **Professor, Department of Electronics**
Period: SEP – 2024 to till date
Paper handled: PIC microcontroller, Internet of Things, VLSI, Semiconductor theory, Circuit Analysis and Mechatronics.

Work Experience: 2

Organization: **PARK GLOBAL SOLUTION**
Designation: **Data Analyst**
Period: 2018 (6 month)

Specialty and Skill sets: Handling Electronics core and Embedded Papers & Internal Projects

Technical Skills:

- **Programming Languages:** C, Microcontroller (8085, 8051, PIC)
- **IDE and Compilers:** KEIL μ Vision C, Chem-draw, Nanotube modulator, MATLAB, Proteus 8.6, LABVIEW.
- **Microsoft Tools:** MS Word and Excel 2010

AREA OF INTEREST

- Nanotechnology
- Digital Electronics
- Embedded System
- Automotive Electronics

ACADEMIC PROJECTS

- Analytical investigation on "FIFTEEN LEVEL CASCADED H-BRIDGE MULTI LEVEL INVERTER USING MATLAB/SIMULINK"
- The invention of an "AUTOMATIC WATER LEVEL DETECTOR & CONTROLLER FOR WATERTANKS"

PAPER PUBLISHED IN JOURNALS

- [1].Rathinavel, S., **K. Priyadharshini**, and Dhananjaya Panda. "A review on carbon nanotube: An overview of synthesis, properties, functionalization, characterization, and the application." *Materials Science and Engineering: B* 268 (2021): 115095.

- [2]. **Priyadharshini, K.,** Dhananjaya Panda, Koteswara Rao Peta, and S. Rathinavel. "**PVK-grafted multiwalled carbon nanotube materials with enhanced mobility for electronic devices.**" *Applied Surface Science Advances* 13 (2023): 100376.
- [3]. **Priyadharshini, K.,** S. Rathinavel, E. Velumani, and A. Manikandan. "**Green synthesis and application of graphene oxide extracted from Punica granatum.**" *Materials Today: Proceedings* 80 (2023): 1341-1347.
- [4]. Priyadharshini, K., and S. Rathinavel. "**DETECTION OF STAPHYLOCOCCUS AUREUS WITH MULTI-WALLED CARBON NANOTUBE FIELD-EFFECT TRANSISTOR.**" (2022).
- [5]. Presented a paper entitled "**INTEGRATING OF CARBON NANOTUBE WITH CELLULOSE PAPER FOR ABSORPTION OF VOLATILE ORGANIC COMPOUND OF INDOOR**" at the International Conference on recent trends in electronics and instrumentation (ICRTEI-2019) held at Bharathiar University.

ACADEMIC ACHIEVEMENTS

- Attended an "INUP FAMILIARIZATION WORKSHOP ON NANOFABRICATION TECHNOLOGIES" at the Indian Institute of Technology, Bombay.
- Attended a two days National Seminar on "MEMS AND NANO ELECTRONIC DEVICES" held at Bharathiar University.
- Actively participated in the two-day hands-on training on "PROGRAMMING RASPBERRY PI USING PYTHON" Organized by PSG College of Arts and Science.
- Actively participated in the two days National level hands-on Workshop on "POWER ELECTRONICS WITH MATLAB" organized by PSG College of Technology.
- Coordinator in the "WORKSHOP ON 3D PRINTING" organized by Department of Electronics, St. Joseph's College, Tiruchirapalli-2.
- Organizing an International Conference on emerging trends in electronics and its application (ICEE-2024) by Department of Electronics, St. Joseph's College, Tiruchirapalli-2.