




# Bharathiar University

State University | "A<sup>++</sup>" Grade by NAAC | 46<sup>th</sup> Rank in MoE-NIRF  
Maruthamalai Road, Coimbatore, Tamil Nadu - 641 046.

<p><b>Dr K. G. PADMASINE</b> Assistant Professor Department of Electronics &amp; Instrumentation Bharathiar University Coimbatore, 641041 Tamil Nadu <b>E-mail:</b> padmasine@buc.edu.in <b>Phone:</b> 9600670630 <b>Office Number:</b> 0422 2428498</p>	
<p><b>Research Area</b></p> <ul style="list-style-type: none"><li>• Bio MEMS</li><li>• RF Antenna</li><li>• Nano Electronics</li><li>• Microwave Electronics</li><li>• Biosensors</li></ul>	<p><b>Courses Teaching</b></p> <ul style="list-style-type: none"><li>• Microwave Theory and Techniques</li><li>• Electromagnetic Theory</li><li>• Control Systems</li><li>• Process Control</li><li>• PLC and its Applications</li><li>• Analytical Instrumentation</li><li>• Signals and Systems</li><li>• Research Methodology</li></ul>
<p><b>Research Experience:</b> 4</p>	<p><b>Teaching Experience:</b> 10</p>
<p><b>Research Credentials</b> (as on September 2025 – Source: Google scholar) H-index: 4                      Citations: 84                      i10-index: 1</p>	
<p><b>Publications</b> International Journals: 39                      Conferences: 4                      Publication Database: 1 National Journals: 1</p>	
<p><b>Career</b></p> <p><b>At Bharathiar University</b></p> <p><b>1. Designation : Assistant Professor</b> Period : November 2016 - February 2042</p> <p><b>Other Institutes</b></p> <p><b>1. Designation : Assistant Professor</b> Institution Name : Karpagam Institution Period : November 2014 - November 2016</p>	
<p><b>Education</b></p> <p><b>Ph. D.</b> Subject : Electronics &amp; Instrumentation Institution : Bharathiar University Affiliated University : Bharathiar University Year of Award : November 2014</p> <p><b>M. Sc.</b> Subject : Electronics &amp; Instrumentation Institution : P.S.G.Arts and Science Affiliated University : Bharathiar University Year of Award : June 2003</p>	



## B. Sc.

Subject : Electronics & Instrumentation  
Institution : P.S.G.Arts and Science  
Affiliated University : Bharathiar University  
Year of Award : June 2000

### Projects

#### National Level

Ongoing - 3 completed -

### Research Guidance

#### Completed

Ph.D. - 2 M.Phil. - 1

#### On Going

Ph.D. - 3

### Institutional Responsibilities

#### IQAC department co-ordinator

Period :Jul 2022 to Till date

Nature of Responsibility :

### Selected Publications

#### 1. Microwave band-pass filter in frequency reconfiguration with super substrate on cross-coupled line structure for LTE 2500, WiMAX and 5G based internet of things applications

Materials Today Communications (March 2023)  
Neeraj Krishna, KG Padmasine

#### 2. Microwave band pass filter with super substrate for detection of dielectric constant in C<sub>2</sub>H<sub>6</sub>O/H<sub>2</sub>O aqueous solutions

Materials Today: Proceedings (February 2023)  
V Neeraj Krishna, KG Padmasine

#### 3. A high-performance quad-port defected ground structured multiple-input multiple-output antenna system for 5g sub-6ghz rf devices

Materials Today: Proceedings (February 2023)  
RK Athira Mohan, KG Padmasine

#### 4. Design and Analysis of a Novel-shaped Hexa-Band Frequency Reconfigurable antenna integrated with PIN diode for S-Band and 5G Sub-6 GHz Applications

International Journal of Scientific Research in Engineering and Management (IJSREM) (August 2022)  
Athira Mohan RK, KG Padmasine

#### 5. AN EFFECTIVE NEURAL NETWORK ALGORITHM FOR DETECTION AND CLASSIFICATION OF BREAST CANCER

IJCSPUB-International Journal of Current Science (IJCSPUB) (February 2022)  
T Thanavel, KG Padmasine

#### 6. REVIEW ON MICROWAVE FILTERS: MATERIALS AND DESIGNING METHODS

SPAST Abstracts (October 2021)  
Padmasine KRISHNA, NEERAJ



## 7. Observation on Health Quality of Teeth Before and After Root Canal Treatment Using DIP Algorithms

International Journal of Engineering Trends and Applications(IJETA) (March 2018)  
K. G. Padmasine P. Nisha

## 8. Quartz Tuning Fork as Humidity Sensor

Journal of J Nanomedicine & Nanotechnology (October 2017)  
Padmasine KG

## 9. Impulse Noise Removal Using Enhanced Efficient Leading diagonal Sort

International Journal of Advanced Information Science and Technology (IJAIST) (July 2016)  
R.Rajkumar K.G.Padmasine

## 1. Enhancement of Micro cantilever's Rectangular and Triangular Beam for Improving the Sensitivity of Biosensor – a Comparative Study

First International Conference on Materials Science and Manufacturing Technology (September 2019)  
S Urekabharathi K G Padmasine