## Contact

9994196804 (Mobile)
hemakumarb@pec.edu

www.linkedin.com/in/dr-hema-kumar-b-46175149 (LinkedIn)
hemakumar.in (Personal)


## Top Skills

C

Matlab

Research

## Languages

English (Full Professional)

Tamil (Native or Bilingual)

Hindi (Elementary)

## Certifications

Six Sigma Green Belt Certification

edX Verified Certificate for AI Chatbots Without Programming

edX Verified Certificate for The Value of Business Models

edX Verified Certificate for Business Model Testing

Introduction to Personal Branding

## Honors-Awards

Best E- Lecture Award

Certified Microsoft Innovative Educator

Outstanding Reviewer

BEST PAPER PRESENTATION

Best Paper Presentation

## Publications

Detection and Counting of Pothole using Image Processing Techniques

Teaching basic cardiac anatomy and physiology to first year medical students by echocardiography

# Dr HEMA KUMAR B


Convener & Innovation Ambassador, IIC at Puducherry Technological University (Govt. of Puducherry)
Puducherry


## Summary


Facilitator | Innovation Ambassador | Intrapreneur | People Person

Facilitator skilled in Educational Pedagogy approaches, Public Speaking, Industrial IoT, LabVIEW and Data Analysis using Open Source Tools. Strong education professional with a Doctor of Philosophy - PhD focused in Biomedical/Medical Engineering from Pondicherry University.

I always have a passion towards teaching and strive to facilitate learners and make learning a dramatic experience through games, skits, roleplays and competitions.

I have my YouTube channel TELE 3.0 where I share my class room skits, roleplays and Lectures.

Travelled to Japan, Malaysia & Singapore to share my pedagogical approaches and served as Reviewers in conferences organized by International Academic Forum (IAFOR).

Had the opportunity to train more than 700 teachers on the usage of ICT tools for education and delivered over 42 technical cum practical workshops to students all over India in the topics IoT, Medical Image Processing, Entrepreneurial Mindset & Human Values.

Awarded with "Inspire Icon - Education domain" award by Inspire Career Development centre in July 2021.

Awarded the Title "Arulnithi" from The World Community Service Centre (WCSC), Aliyar in recognition as a certified Yoga Trainer.

Published papers in 32 International journals and conferences & a book titled “Laboratory manual for experiments in Human Biomedical Signals” in Amazon Kindle Publishing in 2019.

A Novel Smart highway automated toll collection system using Raspberry PI& OpenCV

Teaching Digital Signal Processing using skits - A Case Study

Seperation of Heart sounds and Lung sounds by ICA

See a portfolio of my work at http://www.hemakumar.in

## Experience

### Puducherry Technological University

14 years 4 months

ASSISTANT PROFESSOR
June 2007 - Present (14 years 4 months)
Pondicherry Area, India

FACILITATOR IN EIE DEPT

### Convener, Institute Innovation Cell

June 2020 - Present (1 year 4 months)

### Rajiv Gandhi College of Engineering and Technology

LECTURER & HOD
January 2005 - June 2007 (2 years 6 months)

BIOMEDICAL ENGG DEPT

## Education

### Pondicherry University

Doctor of Philosophy - PhD, Biomedical/Medical Engineering · (2008 - 2017)

### SASTRA University, Tanjore

Master of Technology (M.Tech.), Biomedical/Medical Engineering · (2003 - 2005)

### Pondicherry University

P G Diploma, Business Administration and Management, General · (2003 - 2004)

### Alagappa Univ, Karaikudi

P G Diploma, Digital Instrumentation · (2002 - 2003)

### Pondicherry Engg. college

Bachelor of Technology (B.Tech.), EIE · (1998 - 2002)