



SELF APPRAISAL



Dr. B. Hema Kumar

Associate Professor

Department of Electronics & Instrumentation Engineering
Puducherry Technological University

Dr. B. Hema Kumar

ASSOCIATE PROFESSOR



ABOUT ME

Facilitator | Design Thinking Co-Creator | ARIIA & IIC Coordinator | Mentor | Innovation Ambassador Certified by MoE | Six Sigma Green Belt | Certified Microsoft Innovative Educator

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

Founder & Managing Director of RH Radel Technology Solutions Private Ltd, a DPIIT recognized startup which provides quality affordable radiological education to train young doctors in their image interpretation skills using XR and to provide an automated AI based software for Doctors which helps in Faster diagnosis.

Director of VEROB CAMFE Solutions Pvt Ltd, a DPIIT recognised startup which develops security devices for women safety.

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 1000+ teachers on the usage of ICT tools for education and delivered over 50+ technical cum practical workshops to students all over India in the topics IoT, Medical Image Processing, Entrepreneurial Mindset & Human Values.

Awarded with Silver Global Jury Award 2021 by Wadhvani Foundation in recognition of Evaluating a significant number of student startup Proposals worldwide and guiding future entrepreneurs Globally.

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 & two books one titled "Laboratory manual for experiments in Human Biomedical Signals" in Amazon Kindle Publishing in 2019 & Another "Digital Tools for Entrepreneurs" in Amazon Publishing in 2021.

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

EDUCATION

P.h.D - Biomedical Image Processing

M.Tech - Biomedical Signal Processing & Instrumentation

PG Diploma in Digital Instrumentation

PG Diploma in Business Administration

B.Tech - Electronics & Instrumentation

RESPONSIBILITIES

Facilitator in Dept. of EIE, IEDC & MBA

Associate Dean (Industries & Sponsored Research)

IIC & ARIIA Coordinator

Foreign Students - Nodal Officer

Health Club - Coordinator

EXPERIENCE

Associate Professor, Dept of EIE, PTU
16 years
18 Jun 2007 - till date

Lecturer, Dept of BME, Rajiv Gandhi College of Engineering & Technology
2 years 6months
1 Jan 2005 - 17 Jun 2007

ACHEIVEMENTS



- My team of MBA students, Ms. KARTHIKA S, Ms. SARSWATHE B & Ms. SANGEETHA S, mentored by me, won a grant of Rs 8 Lakhs from AICTE & MIC for the project "Smart safety watch for women". This project is now transformed as a DPIIT recognized Startup, VEROB CAMFE TECHNOLOGIES Pvt. Ltd., myself being the Director.
- Silver Global Jury Award 2021 by Wadhvani Foundation in recognition of evaluating significant number startup proposals worldwide and guiding future entrepreneurs Globally in June 2022
- INSPIRE ICON Award 2021 - EDUCATION DOMAIN by INSPIRE IAS Academy, Puducherry on 31st July 2021
- Awarded with BEST E-Lecture Award on 11th October 2020 in the BEST E-Lecture Award Ceremony organized by the REST Society for Research International, Krishnagiri, Tamil Nadu, India
- Outstanding Reviewer in recognition made to the contribution of Reviewing in Biomedical Signal Processing and Control (Elsevier), Awarded on Aug 2017

AWARDS, PROJECT & CONTRIBUTIONS

30

WORKSHOPS ORGANISED

34

CERTIFICATIONS

15

INTERNATIONAL JOURNAL
PUBLICATIONS

18

INTERNATIONAL & NATIONAL
CONFERENCES

14

PROFESSIONAL BODY MEMBERSHIPS



IIC of Puducherry Technological University won the "BEST PERFORMER" award for showcasing Best practices of Innovation Ecosystem in HEI's. The award was given to our Team on 21st July 2022 at IIC Regional Meet in Sathyabama Institute of Science & Technology, Chennai. We received the prize from Dipan Sahu sir.

CONTRIBUTIONS



START-UPS MENTORED

FUTURE GURUKULS
VEROB CAMFE



JURY MEMBER

10 (National & International)



INVITED TALKS

56 (National & International)



INT. JOURNAL REVEIWER

6 (BSPC, MIHI, ACE, COMJNL, IAFOR,
AJESS)

CONTRIBUTION TO THE DEPARTMENT



01

Students Council Coordinator

Coordinated in arranging REVELATION, Students Council Inauguration, Arranging Alumni Guest lectures & Fusion

02

One Day Industrial Visit Coordinator

Coordinated visits to PPCL (Karikal), SAIF (IIT Madras), NLC (Neyveli), NIWE (Chennai) & PU - CIF

03

Poster, Quiz & Working model design contest Coordinator

Conducted Poster & Quiz Competitions in Analytical Instruments, Biomedical Instrumentation, Spectrometer Design contest in Analytical Instruments & Seismograph Design contest in ISTCEA

04

Professional Development Courses (PDC) Coordinator

Conducted the following PDC's; Digital Image Processing, Medical Image processing, Orientation to Entrepreneurship, Modelling & Simulation in Biomedical, System Design using IoT

05

Virtual Instrumentation Lab Upgradation

Added new experiments; Basic Image processing using LabVIEW, Transmitting & Receiving data to Cloud, Control System Design & Computer Vision applications

✓ T & P faculty Coordinator

✓ NPTEL Mentor

✓ Academic Liaison Officer

✓ Faculty / Staff Advisor

✓ BoS Member (EIE, MBA & BME)

✓ Timetable committee member

✓ Dept. Magazine Editor



CONTRIBUTION TO THE INSTITUTION



01

NCC Coordinator

Took the responsibility of Caretaker for - 1(P) AIR SQN FLY NCC. Encouraged & supported students to participate in All India Republic Day camp & All India Vayu Sainik Camp

02

Institution's Innovation Council Coordinator

Organised workshops & Business Competitions to create a vibrant local innovation ecosystem & Start-up supporting Mechanism in Puducherry Technological University (PTU)

03

Associate Dean

Coordinated various MOU with industries and facilitated sponsored research in Puducherry Technological University

04

CII Garnishing Talents Coordinator

Selection & Coordination of students for CII EATON (CSR Initiative) Garnishing talents program

05

MBA - Innovation Entrepreneurship & Venture Development (IEV) Coordinator

Coordination of students academic & Professional activities, Students Association related MBA IEV

Member of Various teams

- ✓ Graduation Day Committee
- ✓ Alumni Induction
- ✓ College Students Council
- ✓ Anti Ragging Squad
- ✓ PM YUVA Procurement committee

ENTREPRENEURIAL CERTIFICATIONS



TRAINING OF TRAINERS IN ENTREPRENEURSHIP DEVELOPMENT (TOTED)



National Institute for Micro, Small and
Medium Enterprises (ni-msme)

FOUNDATION & ADVANCED LEVEL CERTIFICATIONS & GLOBAL JURY



Wadhvani Foundation

INNOVATION AMBASSADOR (BASIC & ADVANCED)



Ministry of
Education,
Govt. of India

ENTERPRISE DESIGN THINKING PRACTITIONER & CO-CREATOR



COMPLETED TWENTY SEVENTH COHORT OF I-NCUBATE PROGRAM



Gopal Deshpande Centre for
Innovation and
Entrepreneurship,
IIT Madras



INNOVATION



CONTRIBUTION TO THE SOCIETY



YouTube Channel for Lecture notes in Industrial IoT, Entrepreneurship, Analytical Instruments, Biomedical Instrumentation, Design Thinking & Legal Compliances for Startups



Organizing Impact Lecture sessions, Mentoring sessions for startups, Workshops & Special Lectures in the capacity as Innovation Ambassador certified by MoE



Served as Reviewer in Asian Conference on Education 2018 & Senior Reviewer Asian Conference on Education 2017 organized by IAFOR



Served as Global Jury in evaluating young entrepreneurs from different parts of the world.



Served as Presiding Officer (Puducherry & Yanam) & RTPMS Polling Official in Puducherry Govt Elections (Legislative & Assembly)



<https://www.instagram.com/iamabiomedicalengineer/>



<https://www.linkedin.com/in/hemakumarbe/>



Google Scholar Citations : 80



*We see the inner you
So you see the better you*

