

## INTRODUCTION.

The proposed event “Microwave Wearable and Implantable Devices for Wireless Health Monitoring” requires a strong Physical and Mathematical foundation of Electromagnetic Theory. An expert in Electromagnetic Theory and Microwaves with a strong base in Mathematics is an ideal resource person to teach the topic. The numerous applications of Electromagnetic field are well be explored during the sessions by the experts among them focus will be given on wireless health monitoring system using body area network. In one-week a participant will have the opportunity to learn the following:

- The Mathematical concepts on Electromagnetics
- Concepts of microwave body wearable devices/antennas
- The concept of implantable devices/antennas
- Hands-on training on design of such devices using EM Tools;;

The Proposed event includes hands-on experience working with HFSS EM Simulator software through the concepts delivered by the eminent experts. The participants will learn a range of techniques starting with simple problems to complex applications. This workshop provides a platform for the participant for intuitive understanding of the subject and helps them in delivering good research works in future.

## Resource Persons:

**Dr. Susanta Kumar Parui**, Professor in the Department of E&TCE, IEST Shibpur, is a Postdoctoral recipients' from the Royal Academy of Engineering, U.K. His research areas are Microwave Circuits, periodic structures, DGS, EBG etc.

**Dr. Anumoy Ghosh**, an Assistant Professor in Department of Department of ECE, NIT Mizoram, Aizwal. His research areas are Antennas, wearable devices, meta-surfaces.

**Dr. Somak Bhattacharyya**, an Associate Professor, in the Department of Electronics Engineering, IIT(BHU), Varanasi, Uttar Pradesh His research areas are Absorber, Metamaterials etc.

**Dr. Anirban Sarkar**, an Assistant Professor, in the SCEE, IIT Mandi, Himachal Pradesh. His research areas are IoT based smart reconfigurable/ programmable metasurfaces, Antennas.

Many other Distinguished experts yet to confirm from IITs/ NITs/ Abroad .

## Who Can Attend The Workshop?

Highly motivated PG / PhD students from any recognized university from India interested to enhance their knowledge in the area of RF and Microwave Communication.

Number of participants is limited.

For outstation students to and fro train/bus fare (sleeper class) and accommodation will be Provided at free of cost.

## Registration Fees.

All participants must pay an Amount of Rs 1000/-  
**(Rs. 500 wil be refunded back after the program)**

## Contact for more Information.

**Dr. Pratik Mondal (Dept of ECE)**

**Contact:** +91 9836131977

## Organizing Committee.

### Chief Patron

Prof.Dr.Ing.P.S.Rao, President, GVP

### Patrons:

Sri D. Dakshina Murthy, Vice-President, GVP

Prof.K.P.R. Sastry, Vice-President, GVP

Prof. P. Somaraju, Secretary, GVP

Prof. P.V. Sarma, Member, Secretary, GVPCDPGC(A)

### Chairman:

Prof.A.B.KoteswaraRao,Principal

### Conveners:

Dr. Pratik Mondal

### Co-Conveners:

Dr. J. Vasundhara Devi

Dr. N.Deepika Rani

### Coordinating Committee:

- Dr. N. Bala Subrahmanyam
- Dr. R. Surya Prakasa Rao
- Mr. N. Santosh Kumar
- Ms. G. Radha Kumari
- Mrs. P R Srisatya
- Mr. B.R.M. Krishna



## Venue.

Departments of Electronics and  
Communication Engineering  
Gayatri Vidya Parishad College of Engineering  
(Autonomous) Madhurawada, Visakhapatnam.

## About the Institution.

The Gayatri Vidya Parishad College of Engineering has a 5000 strong contingent of students pursuing quality and skill oriented education. The college is established by 'Gayatri Vidya Parishad'(GVP), a non-profitable organization comprising of noted educationists and eminent philanthropists who have a missionary zeal to provide quality technical education. The college is one of the most-preferred self-financing engineering colleges in Andhra Pradesh and at present offers 10 B.Tech. Programs, 9 M.Tech. and one MCA Program approved by AICTE. The college has brought in many initiatives for the benefit of students without Autonomous status granted by UGC in 2009 and extended upto 2025. The institute has been re-accredited second time by NAAC with 'A' grade with CGPA of 3.47/4.0. All the eligible even B.Tech. programs are accredited by NBA atleast twice. The institute received funds to the tune of Rs. 5 Crores under Technical Education Quality Improvement Program (TEQIP), S.C-1.2. The college received Rs. 12 Crores from funding organizations AICTE / DST/ NBHM / ARBetc. towards 45 R&D projects.

## Dept of Electronics and Communication Engineering

Electronics and Communication Engineering was established in 2000 with B. Tech. Programme, intake of 30 students. Currently, Department of Electronics and Communication Engineering has B.Tech. Programme with 4 sections, intake of 240 students and 2 M.Tech. Programmes-

1. Communication Engineering and Signal Processing with an intake of 18.
2. VLSI Design and Embedded Systems with an intake of 18.

## GVP-LIAS.

Gayatri Vidya Parishad Professor V. Lakshmikantham institute for advanced studies (GVP-LIAS) organize seminars/ workshop / conference every year. GVP-LIAS in association with the departments of GVP-College of Engineering organized four international conferences titled, "Recent Advances in Mathematical Sciences and Applications (RAMSA)" in 2009, 2013, 2017 and 2021. GVP-LIAS boasts of hosting a good number of distinguished Mathematicians, Scientists and Researchers from various parts of the country and from abroad.

## Vision of the Department

The vision of Electronic and Communications Engineering Department is to be in the lead to create and develop professional and intellectual human capital in electronics and communication engineering and applications in order to foster the technological, economic and social enrichment of the state and the nation and to contribute to global village connectivity.

## Mission of the Department

To play professional role to create, develop, organize and manage complex technologies and products, contribute to the betterment of society and evolve better quality of living in a world increasingly influenced by scientific and technological innovation.

To provide students of E & C Engineering an environment of academic freedom that will ensure the exchange of ideas and the dissemination of knowledge in this discipline.

To Recognize as a place that encourages research excellence and diversity in thought and endeavour in multidisciplinary applications.



## Gayatri Vidya Parishad College of Engineering (Autonomous)

(Approved by AICTE, Affiliated to Andhra University)  
Accredited by NAAC with 'A' grade with CGPA of  
3.47/4.00 Madhurawada, Visakhapatnam

Centenary Year of  
Prof. V. Lakshmikantham (16-03-2023 to 16-03-2024)

## High End Workshop on MICROWAVE WEARABLE AND IMPLANTABLE DEVICES FOR WIRELESS HEALTH MONITORING (KARYASHALA under the Accelerate Vigyan Scheme - A SERB Initiative)



20<sup>th</sup> Nov–26<sup>th</sup> Nov 2023

Organized by

Departments of Electronics and  
Communication Engineering  
In Association With

Gayatri Vidya Parishad  
Prof. V. Lakshmikantham Institute  
for Advanced Studies (GVPLIS)