

# THE PULSE

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NEWSLETTER  
DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

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## Vision

To emerge as a centre of academic excellence in the field of Electronics & Communication Engineering to address the dynamic needs of the industry upholding moral values.

## Mission

- Impart in-depth knowledge in Electronics & Communication Engineering to achieve
- academic excellence.
- Develop an environment of research to meet the demands of evolving technology.
- Inculcate ethical values to promote team work and leadership qualities befitting societal requirements.
- Provide adaptability skills for sustaining in the dynamic environment.

# MESSAGE FROM FACULTY

## Great Moments while Pursuing the Ph.D. Degree

That was part of my Ph.D. pursuing period (June 2017-May 2019), June 2017, I have submitted my first research article to an excellent peer-reviewed journal. I was eagerly waiting for the first review comments of my research article. After three months, by October 2017, I got very critical comments with a bad rejection of my article that I never thought. After reading those comments, I was highly disappointed with my work. My supervisor then motivated me, which enhanced my inner strength. I have started to address those comments by searching and reading high-end technical papers. At the same time, two of my friends, doing Ph.D. with me, were stuck in the same situation. I have motivated both of them as to how I have been encouraged. Then it became my continuous effort for others to keep them motivated.

*Here is the great feeling I have gone through. I felt so good after I motivated them.*

After some literature work and rigorous fundamental study, my supervisor and I found to do good enhancement in our work. The same, I have incorporated in my article and again got two more rejections. In total, my first research article was rejected three times. At this time, my determination to achieve my goal was much stronger than my first rejection. Looking into many high-end peer-reviewed journals and understanding the research community's perspective, my supervisor and I found innovative ways to present our research content so that it should be accepted. I submitted the same article with some modifications to a peer-reviewed journal and got accepted by May 2019.

Meanwhile, we both worked on our second research article, which we communicated in Jan 2019. By May 2019, I got the acceptance for the second article as well. So, both research articles got accepted in the same month with two days difference. My supervisor and I were happy. I have kept sharing my continuous research learning journey with my friends. They felt so glad, and their research articles have also been in the progressive steps for acceptance.

*After these moments, I started believing and following,  
If we do good for other's happiness, our lives can reflect the same.*



DR. GOKURAJU THRIVENI

# EVENTS

## Highlights of the Month:

- Dr.Harimurthy Presented a technical talk on “Tinkercad Tool for IoT Applications” organized by Kalasalingham Academy of Research and Education, held on 18-02-2022.
- Organized a webinar on “ Body Wearable and Implantable Antennas by RF&MW & IEEE SB-APS” by Dr. Suganthi S , RF & Microwave Research Laboratory, ECE Department and IEEE Students Branch& APS of CHRIST University, Bangalore held on 19-02.2022.
- Organized a webinar on “Inter-Multi-Disciplinary Research Paradigms and Methodological Approaches in Sustainable Built Environment Studies” by Dr. Suganthi S , RF & Microwave Research Laboratory, ECE Department and IEEE Students Branch& APS of CHRIST University, Bangalore held on 19-02-2022.
- Dr.Harimurthy and Dr.Vinay Jha Pillai Copyrights Published for their novel work entitled as “Portable Universal Laptop Powerbank-cum-charger with LCD display” to Copyright Office, Government of India on 09-02-2022.
- Prof Delson T R participated in FDP on “Applications of Deep Learning Techniques to 5G Wireless Communication Technologies” conducted by Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Technology , held during 08-02-2022.
- Prof. Delson T R participated in a Seminar on “Body Wearable and Implantable Antennas-Webinarr” organized by CHRIST University, held on 19.02.2022.



# STUDENT CONNECT

## WHAT ARE THE APPLICATIONS OF AR & VR IN THE FIELD OF MEDICAL ELECTRONICS

### What is Augmented Reality?

Augmented Reality (AR) is a technology that interacts with the real physical world through digital media and functions as a bridge to connect both streams of existence.

### What exactly is Virtual Reality?

Virtual Reality (VR) is a computer-generated simulated space that allows a user to interact with the 3D space.

### What are the uses of augmented reality and virtual reality in the field of medicine?

Currently, AR and VR are being widely used in a variety of sectors for a variety of objectives. In the realm of medicine, AR and VR can be used to assist Doctors, Patients, and researchers who need a way to virtualize the human body and health. These technologies are used in the clinical industry to perform surgeries with fewer interventions by developing a digital model of a person with the problem that has to be addressed. It includes displaying and working plans for the patients who are concerned.

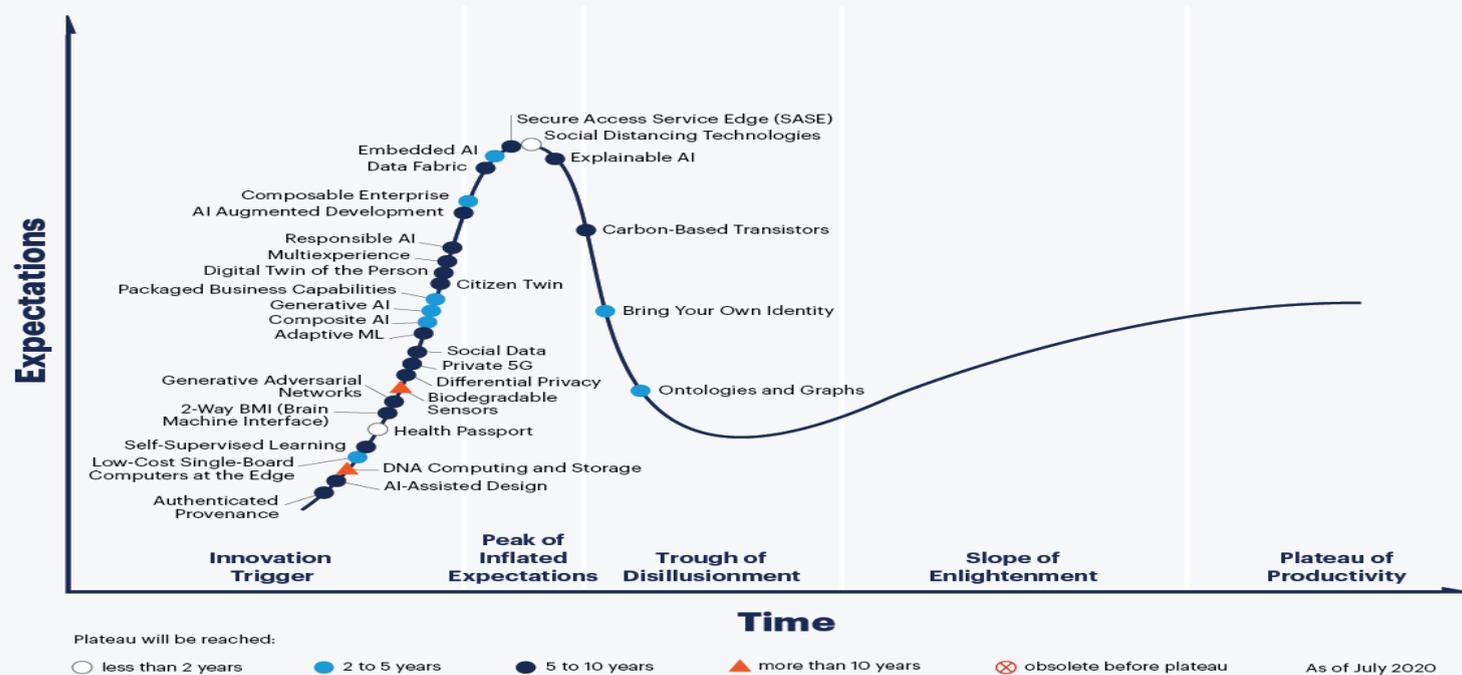
With the help of a platform named "Metaverse," accessibility to the use of AR and VR has recently increased dramatically. Because it is simple to use and understand, it allows the world to combine both AR and VR. Because it is widely available to a large number of people, the medical industry can capitalize on this by developing in terms of "Education." There are numerous ways in which this might benefit a wide range of people; for example, it can focus on pure simulation scenarios for medical students by putting them on the field. Other ways in which a large number of conditions that can be self-diagnosed should be adequately portrayed and made public. Once they are aware of the problem, they can use the "Metaverse" platform to interpret the existing model and express how they truly feel, which they can subsequently communicate with the appropriate Doctor/Physician. The main advantage of this method is that all of this can take place in the comfort of a person's own home if the condition is not critical. This opens up a world of opportunities for everyone by assisting in the education and diagnosis of various ailments.

Shreecharan D (B Tech)



# STUDENT CONNECT

## Hype Cycle for Emerging Technologies, 2020



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**Kindly share your thoughts and research experiences via e-mail to our team, and be featured in next month's issue!**