

Faculty Profile

Ms. PEARLY PRINCESS. J, M.Tech., (Ph.D.)

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Academic Background

Degree	University	Year
Ph.D.	Karunya Institute of Technology and Sciences (Deemed University)	Pursuing
M.Tech	Karunya Institute of Technology and Sciences (Deemed University)	2021
B. Tech	Karunya Institute of Technology and Sciences (Deemed University)	2019

Research Interests

- VLSI Design
- Device modelling
- Communication systems

Projects Undertaken

- **GENERATION OF LARGE AREA ARRAYS OF APERIODIC FUNCTIONAL MICRO/NANO STRUCTURES USING PHASE SHIFT INTERFEROMETRY.**
This project mainly dealt with the generation of large area arrays of aperiodic patterned structures with minimum feature size and has its wide applications based on photonic devices and plasmonic grids.
- **DESIGN OF MONOPOLE ANTENNA FOR COGNITIVE RADIO BASED APPLICATIONS.**
This project comprises of antenna which operates at two frequencies. It is a compact omnidirectional antenna for cognitive radio-based applications. It has its dual operations that occur at 2G and 5G.

Recent Publications

Journal:

- Princess, P., Kirubaraj, A., Sophia, C., & Ramson, J. (2022). **Generation of large-area arrays of aperiodic functional micro/nano structure using phase shift interferometry.** *International Journal of Electronics and Telecommunications*, 68(1), 91-96.

Conferences:

- Princess, J. P., Let, G. S., Rizopackiamary, P., & Keziah, J. (2019, March). **Design of Dual-band Monopole Antenna for Mobile Communications.** In *2019 2nd International Conference on Signal Processing and Communication (ICSPC)* (pp. 70-73). IEEE.

Significant achievements:

- Received certificate of merit for securing 2nd rank in M. Tech (2019-2021)
- Published an article in the IJET Journal (2022).