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Department of Electronics & Telecommunication Engineering

RVE/ET/ /20 -20

Currently pursuing Ph. D. under VTU in the Research center

Sl. No.	Name of Research Scholar	Research Supervisor	Status	Research Area of the Topic	Research Title	Significance
1	T. P. Mithun	Dr. K. Sreelakshmi	Thesis Submitted	Antenna design	Wide Band Antenna for Wirless Communication	Unexplored and lacking an empirical formula, the pentagonal geometry in wideband antennas along with CPW feed presents a unique challenge. This research seeks to design multiple antennas with focusing on achieving high fractional bandwidth, minimal return loss, and eliminating multiple resonances wherein an antenna can accommodate multiple wireless communication requirement.
2	Mahalakshmi M.N.	Dr. G. Sadashivappa	Comprehensive Viva completed	Optical Fiber Communication	Analysis & Mitigation of Nonlinear Effects in DWDM Systems	Handling impairments caused during signal transmission along optical fiber is of main concern in current optical networks.
3	Soumya Prasad	Dr. K. Nagamani	Comprehensive Viva completed	Massive MIMO	Performance Evaluation of Cellular and Cell free Massive MIMO under Channel Interferences	This research is significant as it aims to evaluate and compare the performance of cellular and cell-free massive MIMO systems under various channel interference conditions. The study provides insights into spectral efficiency, energy efficiency, and system robustness, contributing to the design of more resilient and interference-tolerant communication networks. The findings can guide future 5G and 6G deployments toward achieving seamless, high-quality wireless connectivity.

4	Bhaskar S V	Dr. B. Roja Reddy	Comprehensive Viva completed	ML Based detection for Automotive Radar	ML based Waveform Design and Target Detection for Automotive Radar	The research addresses the challenge of designing adaptive radar waveforms and enhancing object detection by integrating machine learning techniques into both waveform generation and sensor data interpretation.
5	Apoorva R.	Dr. Premananda B.S.	Comprehensive Viva completed	Low power SRAM Cell Design	Design and Analysis of Low Power SRAM Cell with improved Stability	CMOS scaling makes SRAM leaky and unstable. Current design fixes force a trade-off between power and stability. This research aims to develop novel SRAM cells achieving both ultra-low power and high stability, resolving this critical conflict for nanoscale devices.

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1	Anil V Chandy	Dr. K. Sreelakshmi	Coursework Completed	Antenna Design	Design of a Multiband supported RIS for Non-Terrestrial Networks	Design and simulation of multi band supported RIS for Non Terrestrial Networks . The study will also plan to cover the performance of RIS in different atmospheric conditions.