

M.E. Thesis Guidance in 2021-22 and 2022-23

S. No.	Name of Student	Topic of Research	Supervisors	Date of Completion
1	Ranjeet Singh Chauhan	Carbon Nanotube FET based SRAM Design and Performance Analysis	Dr. Rajesh Mehra	April 2021
2	Himanshu Mahatma	Single Image Dehazing by using Hybrid Dark Channel Prior	Prof. Maitreyee Dutta	April 2021
3	Surender Kumar	Modeling and Performance Analysis of the Drain Doping Engineering in Group IV Material based Heterojunction Tunnel FET	Dr. Rajesh Mehra	April 2021
4	Kamaljeet Singh	Design Techniques for Low Power CMOS Band Gap Voltage Reference	Dr. Rajesh Mehra	April 2021
5	Bhupender Singh	Dual Band MIMO Antenna for 5G Applications	Dr. Garima Saini	August 2021
6	Shweta Tripathi	Circularly Polarised Antenna for UHF Band	Dr. Garima Saini	August 2021
7	Shiwani Vashist	Face recognition using Principal Component Analysis and Artificial Neural Networks	Dr. S.S. Gill Dr. Balwinder Raj	September 2021
8	Parul Sharma	Microaneurysm Detection in Fundus Images	Dr. Amod Kumar Dr. Balwinder Singh Dhaliwal	September 2021
9	Jagruti Kumari	Hybrid Nonlinear Companding Scheme for PAPR Reduction in FBMC	Dr. Balwinder Raj Dr. S.S. Gill	September 2021
10	Kush Singla	Design and Analysis of 3D Printed Substrate Based Antenna For Wearable IOT Applications	Dr. Garima Saini Dr. Balwinder Singh Dhaliwal	October 2021
11	K.M. Shivani	Optimized Provkite Solar Cell Design using Suitable Defects in layers for enhanced efficiency	D. S. S. Gill Dr. Meenakshi Sood	October 2021
12	Parminder Kaur	Design and Performance Analysis of Zinc Oxide Thin Film Transistor (ZnO ₂ TFT) with High-K Dielectric Materials	Dr. Balwinder Raj Dr. S.S. Gill	October 2021
13	Geetanjali	FPGA based Multiplier-decimator for Wireless Communication System	Dr. Rajesh Mehra	October 2021
14	Ranbirjeet Kaur	Electricity Theft Detection Using RNN-LSTM Technique	Dr. Garima Saini	January 2022
15	Shefali Bharti	Carbon Nanotube FET Waste Soft Error Masking Latch	Dr. Rajesh Mehra	January 2022
16	Parul Sharma	Design and Analysis of Spintronics based MRAM for artificial Intelligence and Neurimorphic Computing Applications	Dr. S.S. Gill Dr. Balwinder Raj	January 2022
17	Simran Malhotra	Design of Provkite Solar Cell for enhanced efficiency using Optimized Defect in layers	Dr. Rajesh Mehra Dr. Meenakshi Sood	January 2022
18	Amit Kumar	EEG based Pain Estimation	Dr. Amod Kumar	February 2022

			Dr. Kanika Sharma	
19	Ashima Kaplesh	Design of Microstrip Patch Antenna Array for the Detection of Motionless Human Target Behind the Wall	Dr. Amod Kumar Dr. Garima Saini	May 2022
20	Laxmi	Fault Detection in Electrical and Electronic Equipment using Thermal Imaging	Dr. Rajesh Mehra	May 2022
21	Zeba Afroz	A Transfer Learning Approach For Brain Tumor Segmentation Using Deep Learning	Dr. Garima Saini	August 2022
22	Kanika Sood	Enhanced Distance Vector Hop Localization Algorithm for Wireless Sensor Network	Dr. Amod Kumar Dr. Kanika Sharma	August 2022
23	Suryakant	Design of Computer Vision Based Road Marking System	Dr. Amod Kumar Dr. Garima Saini	August 2022
24	Swapnil Kapoor	Energy Efficient Unequal Clustering Routing Algorithm based on Neuro-Fuzzy Logic for Wireless Sensor Network	Dr. Balwinder Singh Dhaliwal Dr. Kanika Sharma	August 2022
25	Apeksha Choudhary	Product Price Prediction in Supply Chain Management System using Machine Learning Algorithms	Dr. Meenakshi Sood	August 2022
26	Nandini Devi	Performance evaluation of Machine Learning Algorithms for Intrusion Detection System	Dr. Balwinder Singh Dhaliwal	August 2022
27	Chitra Sharma	Augmented Reality based Remote Assistance System with Gesture Interaction, Multi-user Connectivity and Authenticated Access	Dr. Kanika Sharma	August 2022
28	Preetiyanka	Real Time Face Mask Detection using Convolution Neural Networks and AI	Dr. Balwinder Raj	August 2022
29	Yogesh Thakur	Design of Organic Field Effect Transistor for Gas Sensing	Dr. Balwinder Raj Dr. S.S. Gill	October 2022
30	Sachin Maithani	Design and Analysis of PET Substrate - Based Flexible Antenna for ISM Application	Dr. Garima Saini Dr. Balwinder Singh Dhaliwal	October 2022
31	Apurva	Electrochemical Impedance Spectroscopy for the Detection of Degradation of Edible oil	Dr. Amod Kumar Dr. Kanika Sharma	October 2022
32	Shivam Bansal	Characterization Of 3-D Printed Meta-Structure PLA Substrate Based Patch Antenna For ISM Band Applications	Dr. Garima Saini Dr. Balwinder Singh Dhaliwal	November 2022
33	Himala Sharma	A Systematic Review of A Patient in a Hospital using Machine Learning Algorithms	Dr. S.S. Gill	December 2022
34	Ankit Meghwal	Design of A Multident Microstrip Patch Antenna For TV White Space Communication	Dr. Garima Saini Dr. Balwinder Singh Dhaliwal	January 2023
35	Anavil Mishra	Wideband Planar Antennas with Multiple Resonances	Dr. Garima Saini	Feburary 2023
36	Yashica Thakur	Foam Based Z-Shaped Microstrip Patch Antenna for 5G Application	Dr. Garima Saini Dr. Balwinder Singh Dhaliwal	Feburary 2023

37	Alka Yadav	Gain Enhancement of CPW Fed Monopole Antenna using Artificial Magnetic Conductor	Dr. Garima Saini Dr. Balwinder Singh Dhaliwal	February 2023
38	Shahraan Hussain	Design and Simulation of Lead Free Provkite based Tandem Solar Cell	Dr. S.S. Gill Dr. Balwinder Raj	February 2023
39	Kulbhaskar	Design And Analysis of Foam Substrate Based Flexible Antenna for UWB Application	Dr. Garima Saini Dr. Balwinder Singh Dhaliwal	March 2023
40	Vijay Kumar Meena	Hybrid Meta-heuristic based Energy Efficient Routing algorithm for Heterogeneous Wireless Sensor Network	Dr. Amod Kumar Dr. Kanika Sharma	March 2023
41	Sitaram Meena	Design and Analysis of Prediction Model for Lung Cancer Detection and Classification using Deep Learning	Dr. Amod Kumar Dr. Meenakshi Sood	March 2023
42	Pankaj Tailor	Design of a High Performance Unsigned Radix-16 Multiplier for IoT	Dr. S.S. Gill Dr. Balwinder Raj	March 2023
43	Akansha Mishra	Design and Simulation of Organic Field Effect Transistor for Low Power Sensor	Dr. Balwinder Raj Dr. S.S. Gill	March 2023