

S. No.	Proposed Faculty Name	Problem Statement	Associated Faculty Name	Scholar station department
1	Dr. Vijaya Kumar Devarakonda	Design, Simulation and Developement of Near IR Photodetectors	Dr. Putha Kishore	ECE
2	Dr. S. Subba Rao	Modeling and Fabrication of High Energy Density Flexible Super Capacitors	Dr. D. Amaranatha Reddy	ECE
3	Dr. S Maniprakash	Quantum Machine Learning - Application to structural optimization	Dr. R. Kabaleeshwaran	Mech or CSE or ID
4	Dr. R. Kabaleeshwaran	Privacy-Preserving Cryptography for Blockchain Applications	Dr. Ravinder Katta	Sciences or CSE or ID
5	MA Basiri M	Cache template attack on block ciphers	Dr. Manishank Pandey	CSE or ECE
6	MA Basiri M	High Performance Hardware Accelerators on Physical Systems using FPGA	Dr. Manishankar Pandey	Science or CSE or ECE
7	MA Basiri M	High Performance Hardware Accelerators on Theoretical Computer Science using FPGA and ASIC Technologies	Dr. Shounak	CSE or ECE
8	MA Basiri M	High Performance Hardware Accelerators on Steganography using FPGA and ASIC Technologies	Dr. Shounak	CSE or ECE
9	MA Basiri M	High Performance Netork on Chip (NoC) Design using Instruction and Data Level Parallelism	Dr. Shounak	CSE or ECE
10	MA Basiri M	High Performance Hardware Accelerators on Finite Element Analysis	Dr. Maniprakash	CSE or ECE or Mechanical
11	Dr. Anuj	Experimental and machine learning assisted design and development of high capacity fast charging EV thermal management systems	Dr. Shounak	CSE or ME (as per the background of the perspective student)
12	Dr.P.Rangababu	Skyrmion devices for memory and logic applications	Dr. Prakash Madduri	ECE and Sciences
13	Dr.P.Rangababu	Design of Portable NMR spectrometer for identification Preotien interactions	Dr. Prakash Madduri	ECE and Sciences
14	Dr.P.Rangabau	Design of hardware accelerators for LLMS in healthcare	Dr.K.Satyababu	ECE and CSE
15	Dr. N. Srinivas Naik	AI-Driven Robotic Navigation and Path Planning for Autonomous Exploration in Complex Terrains	Dr. M. Ravi Kumar	CSE or Mechanical
16	Dr. R. Kabaleeshwaran	Quantum Optimization for certain applications	Dr. Murali	CSE or Sciences or ID
17	Dr. R. Kabaleeshwaran	Cryptographic protocols and its provable security aspects	Dr. Ravinder Katta	CSE or Sciences

18	Dr Pandiyarajan T	Development of single-atom catalyst for Simultaneous Degradation of Multiple Organic Pollutants from Industrial Wastewater.	Dr Vipindas K	Department of Sciences
19	Mohamed Asan Basiri	High performance FPGA Implementation of Secure Data Communication	Dr. Shounak Chakraborty	ECE
20	Mohamed Asan Basiri	High Performance Instruction and Data Level Parallelism based Processor Design	Dr. Shounak Chakraborty	ECE
21	Dr. Nittala Noel Anurag Prashanth	Application of Machine Learning and Quantum Machine Learning for Natural Language Processing	Dr. D Murali	Department of Sciences
22	Dr. S Subba Rao	Quantum Transport at Nanoscale Devices	Dr. D. Murali	ECE
23	Eswaramoorthy K V	Reinforcement Learning for Digital Twins	Dr. Srinivasa Desikan	ECE
24	Nittala Noel Anurag Prashanth	Emotion Analysis using NLP	Dr. K. Sathya Babu	Sciences
25	Putha Kishore	AI Assisted FBG Array Sensing System for Structural Health Monitoring Applications	Dr J. Krishnaiah	Physics