University of Mosul/ College of / Computer Engineering Department

Master's and PhD Thesis – Computer Engineering Department (2014–2021)

No.	Title	Student Name	Supervisor	Type	Year
1	Design and Implementation of FFT/IFFT Processor Based on CORDIC	Suha Muzafar Noori	Prof. Dr. Shifa Abdulrahman	M.Sc.	2014
2	Representation and Implementation of Electrical Circuits Using Artificial Neural Network for Multi-point Monitoring	Ola Fakhri Ahmed	Prof. Dr. Shifa Abdulrahman	M.Sc.	2014
3	Design and Implementation of Matrix Arithmetic Units Using FPGA	Farah Nizar Ibrahim	Mr. Thakwan Mohammed Salim	M.Sc.	2014
4	Capacity Planning Methodology for Network Servers for Various Applications	Muamen Faris	Prof. Dr. Qutaiba Ibrahim	M.Sc.	2014
5	Simulation Study of Transport Control Protocol Patterns in Embedded Systems	Duha Abduljabbar	Prof. Dr. Qutaiba Ibrahim	M.Sc.	2014
6	Secure Automation System Using Wireless Sensor Networks	Nada Ismail	Prof. Dr. Qutaiba Ibrahim	M.Sc.	2014
7	Achieving Stability of Real-Time Communication in Mobile Private Networks	Rana Khalid Sabri	Dr. Turkan Ahmed Khalil	M.Sc.	2015
8	Accelerating Neural Network Training Using Parallel Techniques	Noor Mowafaq Al-Layla	Prof. Dr. Shifa Abdulrahman	M.Sc.	2015
9	Design of OFDM System Architecture Based on FPGA	Suhad Abdulbasit	Dr. Dhafer Abdul Fattah	M.Sc.	2017

No.	Title	Student Name	Supervisor	Type	Year
10	Hybrid System for Skin Cancer Detection	Hamed Abdulaziz	Dr. Ahlam Fadel Mahmoud	M.Sc.	2017
11	Development of Routing Protocol for Energy-Efficient Wireless Sensor Networks	Sarah Raed Abed	Prof. Dr. Salah Abdulghani	M.Sc.	2018
12	Research and Development of Surveillance System Using Visual Wireless Sensor Networks	Laith Mohammed Fawzi	Prof. Dr. Shifa Abdulrahman	Ph.D.	2018
13	Modeling and Avoidance of Spoofing Attacks in Cloud Computing Environment	Huda Basim Hamed	Dr. Turkan Ahmed Khalil	M.Sc.	2019
14	Smart Home and Smart City Systems Based on Wi-Fi and IoT	Noor Salah Yahya Saleh Al-Khayyat	Dr. Rabea Mowafaq Hajim	M.Sc.	2019
15	Performance Analysis of Narrowband Spectrum Sensing in Cognitive Radio	Zozan Aziz Ayoub	Dr. Ammar Abdulhameed	M.Sc.	2020
16	Design of Reliable and Energy-Efficient Cross-Layer Protocol for Wireless Sensor Networks	Sakeena Shakir Mahmoud	Prof. Dr. Salah Abdulghani	M.Sc.	2020
17	Intelligent Monitoring System for Microtik-Based Small Networks	Ahmed Mohammed Basheer	Dr. Turkan Ahmed Khalil	M.Sc.	2020
18	The National Smart Irrigation Project	Nasr Mayser Abdullah	Dr. Rabea Mowafaq Hagem	M.Sc.	2020
19	Design of Forward Error Correction Architecture Using High-Level Synthesis Tool (Vivado HLS)	Amer Talal Ali	Dr. Dhafer Abdul Fattah	M.Sc.	2020
20	Design and Implementation of a Prototype for an Automated Electrical Energy Meter Reading System	Mohammed Sameer Mohammed	Dr. Dhafer Abdul Fattah	M.Sc.	2020
21	Algorithms and Simulation of a Robust Security System Based on the Human Retina	Shahd Ali Sultan	Asst. Prof. Mayada Faris Ghanim	M.Sc.	2020

No.	Title	Student Name	Supervisor	Type	Year
22	Intelligent Hybrid Prosthetic Hand for Disabled Individuals	Mohammed Tariq Mohammed	Prof. Dr. Basel Shukr	M.Sc.	2020
23	Enhancing Voice Transmission System Over Wireless Sensor Networks	Enam Fathi Khudhur	Prof. Dr. Qutaiba Ibrahim	Ph.D.	2020
24	Acceleration of Basic Functions Execution in Computer Graphics	Sara Nawfal	Dr. Fakhraddin Hamed	Ph.D.	2020
25	Design and Construction of Low-Complexity Cognitive Communication Transceivers Using Interleaved Structures and Wavelets	Samar Ammar Yasser	Prof. Dr. Jasim Mohammed / Prof. Dr. Qutaiba Ibrahim	Ph.D.	2020
26	Implementation of Secure Digital Systems for Critical Computer Systems Using FPGA	Farah Natiq Yassin	Shawkat Sabah Khairallah	M.Sc.	2021
27	Investigation of Hidden Node Problem in Wireless Sensor Networks Using MAC Protocols	Qaed Kitab Kaid	Prof. Dr. Salah Abdulghani	M.Sc.	2021
28	Development of a Routing Protocol for Low Power Networks in Lossy IoT Environment	Nariman Najib Shaba	Prof. Dr. Salah Abdulghani	M.Sc.	2021
29	Development of Multipath Routing Protocol for Wireless Multimedia Sensor Networks	Madeen Mohammed Saleem	Prof. Dr. Salah Abdulghani	M.Sc.	2021
30	Measurement and Analysis of IoT Publishing Protocols Data	Roaa Waadallah Tareq	Mr. Turkan Ahmed Khalil	M.Sc.	2021
31	Development of Multi-Stage Energy-Efficient Cluster-Based Routing Protocol for IoT Networks	Noor Raad Saadallah	Prof. Dr. Salah Abdulghani	Ph.D.	2021
32	Design and Implementation of an IoT System for Monitoring Electrical Substations	Aseel Yousif Mohammed	Dr. Rabea Mowafaq Hagem	M.Sc.	2021
33	Intelligent Environmental Pollution Monitoring System Based on IoT	Raghad Hazem Said	Dr. Rabee Mowafaq Hajim	M.Sc.	2021

No.	Title	Student Name	Supervisor	Type	Year
34	Design and Implementation of Low-Density Parity Check Architecture	Arwa Hafidh Ali	Dr. Dhafer Abdul Fattah	M.Sc.	2021
35	Smart Surveillance System: Health Crisis Management	Muhannad Ramzy Mohammed	Dr. Ammar Idris Dawood	M.Sc.	2021
36	Deep Learning-Based Classification of Brain Neural Signals Using Heterogeneous Computing	Ali Makhlaf Al-Sayegh	Prof. Dr. Shifa Abdulrahman	Ph.D.	2021
37	Performance Evaluation of Face Recognition System Based on RBF-SVM	Doaa Faris Abdulqader	Asst. Prof. Mayada Faris Ghanim	M.Sc.	2021
38	Evaluation Z-Buffer and BSPT of Hidden Surface Removal Methods Using Open GL	Lubna Muzahim Saeed	Asst. Prof. Fakhrulddin Hamed Ali	M.Sc.	2021

Updated: May 2025