Heaven's Light is Our Guide Rajshahi University of Engineering & Technology Department of Mechatronics Engineering Session: 2013-2014

Thesis Title

Sl. No.	Thesis Title	Student Roll
01	Fractional Order Robust PID Controller Design for Voltage Control of Islanded Microgrid	138009 138020
02	Design and Development of Vehicle Mounted Wind Turbine Generation System	138010 108023
03	Design and Development of Autonomous Aerial Vehicle	138005 138018
04	Stability Analysis for Interconnected Nonlinear System With 'Mixed' Negative - Imaginary	138008
05	Improved Vision in Inclement Weather for Self-Driving Cars Using CNN	138013 138015 138026
06	An Artificial Neural Network Based Approach to the Estimation of Transmission Line Fault Location	138014 138022
07	Design and Development of WSN-IOT Framework for Home Automation	138011 138024
08	Design and Development of Gesture and Smart Phone Controller Wheel Chair for Disabled	138001 138016
09	Deep Neural Network Based Image Recognition	138017 138019
10	An Improved Design of Surface Plasmon Resonance Biosensor Based on Graphene with TiO2 and Gold Nanoparticle for Immune Sensing	138006 138029
11	Robust Integral Linear Quadratic Gaussian Controller Design for Nonlinear Single Machine Infinite Bus Power System	138012
12	Convolutional Neural Network Based Paddy Plant Disease Recognition	138003 138027

Heaven's Light is Our Guide Rajshahi University of Engineering & Technology Department of Mechatronics Engineering Session: 2014-2015

Thesis Title

Sl. No.	Thesis Title	Student Roll
01	Design and Development of an Advanced Biometric Automated Teller	148021
	Machine for Secured e-Banking System in Bangladesh	148029
02	Environment Condition Monitoring and Long-Distance Actuator Control	148004
	Using Wireless Sensor Network (WSN)	148007
03	Smart Automated Home for Disable People Using PLC	148001
		148015
04	Development of Real-Time Vehicle Occupancy Tracking System in a Parking	148022
	Lot Using Deep Learning	148030
05	Robust Fuzzy Logic Controller for Power, Voltage and Frequency Control of Multi Level Distributed Generation Based Three-Phase Island Microgrid	148017
06	Design of a Novel Blended State Estimated Adaptive Controller for Voltage	148013
	and Current Control of Microgrid against Unknown Noise	148018
07	Controlling the Movement of a Sel-Driving Vehicle by Hand Gesture Using	148016
	Leap Motion Controller	148025
08	Modeling and Development of 3 DoF Color Sorting Robotic Manipulator	148011
	Using Arduino	148020
09	Analyzing Text to Develop Interactive Conversation Agent Using NMT and	148005
	Sentiment Analysis Using Multi-Channel Combination of CNN and LSTM	148027
10	Design and Development of a Magnetic Levitation System Using Zero Power Control	148023
		148025
	Control	148026
11	Plant Detection Based on Leaf Recognition Using Multi Level residual	
	Network and Progressive Neural Architecture Search	148024
12	Convolutional Neural Network Based Person Specific Face Recognition &	148019
	Detection	148028
13	Development of a Servo Based Mouse Controlled Robotic Wrist	148006
		148012
14	Optimum Design and Prototyping of Small Wind Turbine Blade to Extract	148002
	Maximum Wind Energy with Automatic Wind Flow Detection	148003
15	Voice Controlled Multi-Functional Home Automation System	148014
		138030

Heaven's Light is Our Guide Rajshahi University of Engineering & Technology Department of Mechatronics Engineering Session: 2015-2016

Thesis Title

Sl. No.	Thesis Title	Student Roll
01	Data Driven Model Predictive Control Design to enhance Tracking Accuracy and	1508003
	Power Quality of a Solar Based Microgrid under Uncertain Loads	1508010
02	Controlling a Prosthetic hand using EMG Signal	1508026
		1508030
03	Performance Improvement of Domestic Refrigerator Through Suction Line Heat	1508019
05	Exchanger Design	1508020
04	Design and Development of a Robotic Arm for Classifying Tomato Leaf Diseases &	1508002
04	Spraying Pesticides on Affected Leaf	1508015
05	A Novel Approach to Extractive Question Answering Chatbot in Bangla Using	1508007
05	Bidirectional Encoder Presentation from Transformer	1508012
06	Smart Agriculture Monitoring and Control Using Internet of Things (IOT) in	1508025
00	Greenhouse	148010
07	Deep Learning-Based Condition Monitoring & fault Diagnosis of a Motor Gear Test	1508004
07	Rig	1508016
08	Optimum Design and Performance Evaluation of a Solar Panel with Automatic Sun	1508022
08	Tracking System	1508028
09	Speed Bump & Pothole detection with Single Shot Multibox Detector Algorithm &	1508013
09	Spped Control for Autonomous Vehicle	1508017
10	Image Processing and Convolutional Neural Network based Approach for Detecting	1508014
10	Lane and Objects of an Autonomous Car	1508027
		1508006
11	Computer Vision Based Translator for Bangla Sign Language Characters	1508008
	Machine Vision Based Eye Gaze Controlled Virtual Keyboard for People with	1508011
12	Neuromotor Impairments	1508011
10	Design and Development of PLC Based Training Modules for the Department of	1508024
13	Mechatronics Engineering of RUET	138004
14	Optimum Blade Design of Pinwheel Type Horizontal Axis Wind Turbine for Low	1508023
14	Wind Speed Areas	1508029