

Heaven's Light is Our Guide
Rajshahi University of Engineering & Technology
Department of Mechatronics Engineering
 Course No.: MTE 4100 and MTE 4200
 Course Title: Project and Thesis
 Session 2019-2020

Sl. No.	Thesis Title	Student Roll	Supervisor	External
01	Design and Development of an Intelligent Autopilot System for Autonomous Vehicles	1908006 1908029	MFA	SM
02	IoT Based Square Wave Single Phase Online Inverter with Solar Panel Installation	1908039, 1908041		MMI
03	Self-Charging Featured Surveillance Robot with Owner Recognition System	1908001 1908044		MHA
04	Robotic operation System based Autonomous Navigation using Visual SLAM	1908052 1908056		SHA
05	Design and Development of an Underwater Robot for Inspection Purpose	1908022 1908037	MMI	MFA
06	Design and Development of a Deep Learning-Based Multi-Modal Deepfake Detection System and Its Integration into the "UnMask" Mobile App with FastAPI Backend	1908015 1908025		FRB
07	Integrating TinyML and Sensors Fusion to create an Artificial Nose	1908016 1908040		MHA
08	Development of Smart Greenhouse Management System by Controlling Environment Parameters Using IOT and AI Technology	1908020, 1908050	MRI	MHA
09	Design, Optimization and Development of a Vertical Axis Wind Turbine for Low Wind Speed Area	1908013 1808013		SHA
10	Design Implementation and Control of a Soft Robotic Gripper for Grasping Delicate Objects	1908005 1908017		SI
11	Design and Development of an Autonomous High-Speed Wall Painting Robot	1908045 1908057		SI
12	A project & thesis report on Deep Learning for Environmental Sustainability: Designing an Automated Waste Sorting System via Image Recognition	1908028 1908032	SI	MRI
13	A Semi-Autonomous Surveillance Drone with Preprogrammed GPS Navigation and Real-Time FPV Feedback	1908054 1908010		MRI
14	Design of an Autonomous Robotic Fruit Harvesting System Using Deep Learning	1908004 1908049		MMI
15	AI and Sensor Driven Approach to Robotic Manipulator	1908014 1908034	MHA	SHA
16	Intelligent Vision Systems for Precision Agriculture: Mobile Application for Real-Time Plant Disease Detection Using Image Analysis and Machine Learning	1908030 1908053		MFA
17	Design and development of a real time healthy vs rotten potato classifier	1908043 1908038		MMI
18	Design and Implementation of robust control technique for self balancing of two wheel bikes	1908031 1908060	FRB	SI
19	A Predictive framework for Power Consumption and management for renewable energy-based Grid Using XGBoost to enhance efficiency and stability	1908046 1908047		MZH
20	Advancing Generative Adversarial Network Architectures and Cross-Modal Learning Strategies for High-Friendly Text-to-Image Synthesis	1908036 1908058		MSH
21	Design and optimization of autonomous labor for efficient material transport	1908021 1908035		MRI

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22	Model-based Gait Identification using multi-view data and Hybrid Classifier	1908024 1908027	SHA	SKS
23	Hybrid Reconstruction Approaches for Occluded Regions in Multi-Person Gait Recognition	1908026 1908051		MFA
24	A project & thesis report on Advanced Stair-Climbing Delivery Robot with Multimedia Transmission and Client Verification for Multi-Story Applications	1908048 1908059		MMI
25	Design and Implementation of a TinyML-Enabled Gesture-Based Controller for Seamless Mobile Robotic Arm Control in ROS Environment	1908002 1908009	MSH	External Sir (KUET)
26	Vehicle Theft Detection and Prevention System in Challenging Environment using Deep Learning	1908019 1908003	SM	FRB
27	Design and Development of a Hybrid Kinetic-Solar Energy Harvester System for Energy Efficient Prosthetic Limb	1908011 1908042	MZH	SI