

Mini-Projects completed by the Students of 2023-2027 batch of B. Tech. in ECE as a part of the course EC211: Microcontroller and Microprocessor

Problem Statement: The problem statement is open ended where the students will try to focus on identifying some of the regional (locally available) problems available problems related to the sustainable development goals (SDGs) of United Nations (i.e. 17 SDGs) and provide partial contributions for solving the problem(s). This solution should be using the knowledge gathered in the course Microprocessor and microcontroller EC 211.

Evaluation: The evaluation will be following the parameters as mentioned in Table I and considered as Test II of EC211.

Parameters	Weightage
Originality in the problem identification and solution	15%
Technical strength	35%
Implementation	35%
Presentation skill	15%

Course Instructor: Dr. Nayan M. Kakoty

Open House Practical Demonstrations by students on April 30, 2025@ECE department



Aethoros: Wireless Text Display

ECB23060
ECB23066
ECB23067
ECB23069



Autochase: Bot Object Following Robo Car

ECB23007
ECB23020
ECB23030



BlindSight: Tech Smart Walking stick with SOS

ECB23034
ECB23037
ECB23027



ByteMechs: Line follower Robot

ECB23057
ECB23051
ECB23062
ECB23068



Chayan LED: control with hand gesture

ECB23014



Circuits Among us: CNC pen plotter

ECB23049

ECB23054



Dorsal Bionics Hybrid Assistive Real-Time

ECB23038

ECB23042

ECB24202



EcoSentry: Smart Environmental

ECB23029

ECB23044

ECB24205



FLOW: Water Level Monitoring System

ECB23052

ECB23055

ECB23085

ECB23063



GateX: Automatic Toll Gate System

ECB23081

ECB23028

ECB24204



GreedGreed: environment monitoring system

ECB23078

ECB23075

ECB23072



HelioSeekers: Smart Environmental Monitor

ECB23073

ECB23026

ECB23079



HelioSOS: Smart Safety
Helmet

ECB23083
ECB23084
ECB23074



HydroSync: Smart
Environmental Monitor

ECB23035
ECB23022
ECB23056



LumiNerds: Automatic
Street Light

ECB24203
ECB23059
ECB23048



RemoteXY: esp Remote
Robot

ECB23011
ECB23065
ECB24206



RoboTrics: Rover

ECB23013
ECB23024
ECB23076



SecureSight: IoT based
Surveillance and alert

ECB23039
ECB23017
ECB23023



TechTrio: Radar Watch

ECB23025
ECB23008
ECB23045



Time4Meds: Smart medicine
reminder box

ECB23012
ECB23010
ECB23043



XYZ Electronics: Mini
Oscilloscope

ECB23031

ECB23046

ECB23047