

List of Senior Design Projects (Academic Year 2024)

1. Preliminary study for density gradient using background oriented schlieren
2. Design and Fabrication of a Safety Helmet Using Green Composites
3. Engineered Nanomaterials for Sustainable Oil-water Separation
4. Design and Optimization of an Evacuated Tube Water Desalination System
5. Development of Sustainable Composites from Recycled Plastic and Natural Fibers
6. Design, Fabrication and Implementation of an Autonomous Self-Balancing Robot
7. Design of Artificial Intelligence-Based Corrosion Protection System Using Fluoropolymer Coatings for Oil and Gas Industry Applications
8. Design and Layout of Sprinkler Irrigation System
9. Analysis of shaper mechanism with prototypes in different configuration
10. Optimizing Solar PV-Powered Charging Systems for Efficient EVs and E-Bicycle Management in Parking Lots.
11. Design and production Complicated shape by Foam casting process
12. Design of Central Air Conditioning System for College of Engineering Lab
13. Design different bend configurations to reduce solid particle erosion using Computational Fluid Dynamics (CFD)
14. Design and Implementation of a Solar-Powered Water Pump System for Optimal Agricultural Irrigation in the Jazan region
15. Design and analyze the structural integrity and practicality of folding bicycle frames in urban mobility."
16. Design a mini boat for oil/water separation
17. Designing Holes as Crack Arrestors for Linear Elastic Materials: A Simulation-Based Approach