

Centre of Excellence in Hydrogen and Green Technology



Internship Modules for Engineering students

- M1. Hydrogen Embrittlement resistant coatings
- M2. Hydrogen storage using advanced material
- M3. Development of high-performance catalysts for electrolyzers
- M4. Development and prototyping of metal oxide-based hydrogen sensors
- M5. Hydrogen Supply Chain in refineries, steel and cement industries
- M6. Development of selective membranes for hydrogen separation and purification
- M7. Safety domain ontology in hydrogen handling and storage
- M8. Studies on the role of carbon capture and hydrogen in the energy transition
- M9. Design of hydrogen-based LEAF combustor for aviation applications
- M10. Design of hydrogen-based cavity combustor
- M11. Development of hydrogen oxygen micro thrusters for satellite applications
- M12. Hydrogen fuel cells for turboelectric propulsion
- M13. Modification of a diesel/gasoline/CNG engine to hydrogen IC engine
- M14. Remote sensing of molecular hydrogen using lasers
- M15. Synthesis of graphene from ethanol/bio-methane for hydrogen storage
- M16. Life Cycle Assessment of Green recycling alternatives in e-waste management
- M17. Development of low NOx coating for gas turbine exhaust wall
- M18. Disposal and evaluation of Indian market for disposal of wind turbine blades
- M19. Correlating microstructure with compressive strength of geopolymer composites using image processing
- M20. Prediction of compressive strength of geopolymer composites using Machine Learning
- M21. Synthesis of solid electrolytes for Li-ion battery applications
- M22. Purification of biomethane for graphene synthesis
- M23. Bio Poly Urethane Foam for various applications
- M24. Cloud Computing and Data Science using AWS/Azure for energy applications
- M25. Design and integration of solar PV ON /OFF grid system
- M26. Smart energy management for PV standalone system
- M27. Production of biofuel and its application in an internal combustion engine
- M28. Physical Installation of PV port on rooftop
- M29. Synthesis and characterization of eco-friendly additives for green fuel generation
- M30. Synthesis of electrochemical sensors for the detection of H1N1 virus

For Further Information Contact:

Dr. Ujwal Shreenag Meda
Assistant Professor,
Department of Chemical Engineering
Email ID: ujwalshreenagm@rvce.edu.in
Mobile: 8050842363



RV College of
Engineering®

Mysore Road, RV Vidyaniketan Post,
Bengaluru - 560059, Karnataka, India

+91-80-68188110 | www.rvce.edu.in



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