Summer (June-July'2025) Internship by ME Department , JGEC

Dated : 29-May-2025

Sl No.	Faculty	Proposed Project Titles
1.	Prof. Amitava Roy, Prof. Asim Mahapatra & Prof. Ayan Pramanick	**1. Project Title (Manufacturing):** "Machining Characterization and Multi performance optimization in machining of alloy steel using coated carbide tool." **2. Project Title (Manufacturing):** "Additive manufacturing of Polymer material using 3D Printing." **3. Project title (Manufacturing):** "Sustainability issues of manufacturing organization."
2.	Prof. Arijit Kundu & Prof. Md. Naim Hossain	**1. Project Title (Refrigeration):** "Effect of Tube Orientation Under Varying Heat Flux on Evaporative Boiling Heat Transfer Using Ansys". **2. Project Title (Refrigeration):** "CFD Investigation of Boiling and Condensation Heat Transfer in Horizontal Tubes Using Open FOAM". **3. Project Title (Renewable Energy):** "Performance Analysis of an Earth-Air Heat Exchanger and Ground Heat Exchanger under Varying Soil Moisture Conditions for Passive Cooling in Hot Climates". **4. Project Title (Renewable Energy):** "Experimental and Numerical Study of a Solar Flat Plate Collector with Varying Flow Rates". **5. Project Title (Renewable Energy):** "CFD Investigation of Solar Air Heater with and without Internal Baffles".
3.	Prof. Subhendu Pal & Prof. Tanmoy Majhi	**1.** Application of MATLAB in Solid Mechanics. **2.** Application of MATLAB in Heat Transfer.
4.	Prof. Satyajit Das Karmakar & Prof. Pritam Dey	**1. Project Title (Renewable Energy):** "Comparative CFD Study of Savonius vs. Darrieus VAWTs Using ANSYS". **2. Project Title (Renewable Energy):** "Integration of PHS with Wind Energy: System-Level Modelling and Efficiency Estimation". **3. Project Title (Renewable Energy):** "Thermodynamic Assessment of a Pumped Hydro System: Entropy and Exergy Analysis".
5.	Prof. Asim Mahapatra, Prof. Wasim Akram & Prof. Debdut Maji	**1.** Numerical Simulation of Various Electrophoretic Techniques (CZE, ITP, FASS, etc) Using Open-Source Tools. **2.** Harnessing Solar Energy Using Phase Change Materials. **3.** Design of Conveyors.