



## Institute of Glass and Ceramic Research and Testing (IGCRT)

### List of On-going R & D projects

1. Development of Nano Nickel Ferrite and its modified system for photo catalysis in textile effluent. Project leader: Bristy Biswas, SO; Duration: July 2022-June 2025
2. Fabrication of biocompatible bio-scaffold from waste natural sources for orthopedic application. Project leader: Md. Sahadat Hossain, SO; Duration: July 2022-June 2025
3. Development of a process for the production of polyoxometalate and study of its photo catalytic activity. Project leader: Dr. Umme Sarmeen Akhtar, SSO; Duration: July 2022-June 2025
4. Development of Nano Crystallized Glass using coal ash. Project leader: Md. Saiful Quddus, SSO; Duration: July 2020-June 2025
5. Development of silica based ceramic non-stick coating for enhanced performance in various applications. Project leader: Dr. Shirin Akter Jahan, PSO; Duration: July 2023-June 2025
6. Development of advanced ceramics for construction purposes using solid wastes. Project leader: Dr. Sonjida Mustafi, PSO; Duration: July 2023-June 2025
7. Production of non-fores brick using river sand. Project leader: Dr. Umme Sarmeen Akhtar, SSO; Duration: July 2023-June 2025
8. Development of multifunctional cement grinding aids for energy efficient cement production. Project leader: Md. Sagirul Islam, SSO; Duration: July 2023-June 2025
9. Development of g-C <sub>3</sub> N <sub>4</sub> /rGO/MO <sub>x</sub> /spinel ferrite nanocomposites for humidity sensor and photocatalyst. Project leader: Md. Lutfur Rahman, SSO; Duration: July 2023-June 2025
10. Preparation of metal ion doped nano-hematite with enhanced optical and electro-magnetic properties. Project leader: Juliya Khanam, SSO; Duration: July 2023-June 2025
11. Biosynthesized zinc oxide nanoparticles for biomedical and catalytic applications. Project leader: Mandira Saha, SO; Duration: July 2023-June 2025
12. Preparation of biomaterial from waste fish scale and its bioactivity study. Project leader: Mashrafi Bin Mobarak, SO; Duration: July 2023-June 2025
13. Composite cement from industrial solid waste. Project leader: Gorungo Ray, SO; Duration: July 2023-June 2025
14. Synthesis of ultrafine pure alumina for ceramic coating. Project leader: Raton Kumar Bishwas, SO; Duration: July 2023-June 2025
15. Alumina-based spinel ceramic oxides for photo-electrocatalytic water oxidation. Project leader: Tanvir Ahmed, SO; Duration: July 2023-June 2025
16. Development of rice straw-cobalt ferrite nanocomposite for the removal of heavy metal from waste water. Project leader: Md. Farid Ahmed, SO; Duration: July 2023-June 2025