

**PG CHEMISTRY(2<sup>nd</sup> Year) RESEARCH PROJECT**

**ACADEMIC YEAR 2022-23**

| <b>S. No.</b> | <b>Name of student</b> | <b>Reg. No.</b> | <b>Title of the Reseach Project</b>  | <b>Supervisor</b>         |
|---------------|------------------------|-----------------|--|---------------------------|
| 1.            | Ankana Sen Gupta       | PG/CHY/2150410  | Synthesis, characterization and application of (-)-Menthol derived Chiral ionic liquids  | Prof. Harish Kumar Chopra |
| 2.            | Ravi Thummar           | PG/CHY/2150414  | Synthesis of (-)-Borneol based ionic liquids for the Chiral Recognition of some Amino acids  | do                        |
| 3.            | Nancy                  | PG/CHY/2150415  | Borneol-based GUMBOS: synthesis, characterizations, and applications in asymmetric reduction reactions   | do                        |
| 4.            | Asware Arati Dattatray | PG/CHY/2150419  | Utilization of Benzimidazolium based Magnetic ionic liquids for the Detection of Pb(II) in Raw Cider Honey   | do                        |
| 5.            | Kamal                  | PG/CHY/2150403  | Synthesis and Application of transition metal based MOFs, CeO <sub>2</sub> -MOF nanocomposites for Photocatalytic Degradation of Chlorophenols       | Prof. Dhiraj Sud          |
| 6.            | Garima Bhalla          | PG/CHY/2150407  | Template Induced Synthetic protocols for Fabrication of metal oxide nanostructures, Characterization and potential Application as Photocatalyst      | do                        |
| 7.            | Himanshu Bhardwaj      | PG/CHY/2150404  | Synthesis and Application of Transition Metal-Organic Frameworks as Selective and Sensitive Fluorescence sensor for 2,4,6-TNP                        | do                        |
| 8.            | Amandeep Kaur          | PG/CHY/2150428  | Experimental and Theoretical studies of Prototropic Tautomerism in Meldrum Acid Carbothioamide and Hydrazones  | Prof. Ram Pal Chaudhary   |
| 9.            | Md. Rehman             | PG/CHY/2150416  | Spectroscopic Studies of Prototropic Tautomerism in 1,3 diphenylpropane-1,3-dione Carbothioamide   | do                        |
| 10.           | Muhammed Shat          | PG/CHY/2150413  | Synthesis of Indeno-Pyrazolone Derivative and Tetrahydro-Carbazolone Derivative  | do                        |
| 11.           | Arun Giri              | PG/CHY/2150418  | Photocatalytic Degradation of naphthol Blue Black Dye using Aluminium Doped Cobalt spinal ferrites   | Dr. Hemant Kumar          |
| 12.           | Yepuri Abhilash        | PG/CHY/2150420  | Photocatalytic Effect of Magnesium Doped Cobalt Spinel Ferrites on Naphthol Blue Black Dye   | do                        |
| 13.           | Kurakula Nagarjuna     | PG/CHY/2150409  | Synthesis and Spectral Characterization of Chitosan derivative bearing Acetylpyridine  | Dr. Himanshu Rani         |
| 14.           | Ishmeet Kaur           | PG/CHY/2150426  | "Bis Chalcones of Terepthaldehyde : Cytotoxic Effect in MCF-7 Breast Cancer Cell Lines, Synthesis and Spectral Characterization of its Zn Complexes" | do                        |
| 15.           | Neetika                | PG/CHY/2150408  | Synthesis and characterisation of zinc oxide and cerium oxide nanoparticles using rice straw extract as template                                     | Dr. Payal Malik           |
| 16.           | Rohit Dodania          | PG/CHY/2150422  | Synthesis and characterization of Mn(III)-salen type complex for C-H oxidation of toluene  | do                        |