**Active Projects List**

**Dr Abdul Samad**
- Indigenous development of a novel nanofibrous dental composite for tooth regeneration
- Co-synthesis of Natural polymers for periodontal regenerations
- Synthesis of carbon nanotubes and bioactive ceramic composites
- Synthesis and characterisation of a novel osteoconductive monoblock” post and core system for root canal treatment

**Dr Anila Asif**
- Synthesis and characterization of novel composite material for 3D scaffolds
- Novel bioactive composite based on hyperbranched polymers for dental applications
- Synthesis of porous bioactive ceramic scaffolds for hard tissue replacements

**Dr Saadat Anwar**
- Synthesis and Characterization of Novel Bioceramics for Orthopedic Applications
- Bioactive ceramic/polymer scaffolds
- Preparation and Characterization of Biomaterials by Electro Spinning Technique

**Dr Aqif Anwar**
- Magnetic Materials through Hydrothermal Synthesis for Hyperthermia Treatment of Cancer
- Bone Fillers – Lab Scale Synthesis, Scale up, Clean Synthesis and Animal Trials
- Tailorable Nanoceramics for Biological Applications via Hydrothermal Synthesis

**Dr Athar Farooq**
- Development of Azole Based Potential Protein Kinase Inhibitors
- Development of Advanced bone fillers
- Synthesis of ceramic/polymer based scaffolds using freeze drying Method

**Dr Ghulam Abbas**
- Synthesis of bioactive injectable ceramics for minimally invasive surgery
- Synthesis of molecular based magnets having potential applications in hyperthermia treatment of cancer
- Synthesis, DFT and biological studies of Copper aggregates
Dr Muhammad Yar

- Wound dressings and skin tissue engineering
- Anti-bacterial smart fabrics
- Transdermal drug release and amphiphilic nano materials for protein drug delivery
- Heterogeneous nano catalysis
- Sulfur ylide mediated novel annulation reactions

Dr Asma Tufail

- Synthesis of bioactive glass for potential osteological and dental applications
- Synthesis of nanoparticles for photocatalytic applications
- Synthesis, characterization and biological activity of Polyoxometalates
- Development and Functionalization of CNT’s For Delivery of Anticancer Drug

Dr Sobia Tabbassum

- Organically modified bioceramic particles for improved biomedical coating adhesion.
- In situ synthesis of bioactive ceramic/polymer composites and use of nano reinforcements for better coating adhesion
- Development of high mobility synthetic bone graft substitutes using polymeric carriers

Dr Rashid Amin

- DNA Scaffold Cross tile
- Biological evaluation of bio and dental materials