








**Department of Biological Sciences,
P D Patel Institute of Applied Sciences,
Charotar University of Science and Technology**



Research Areas








Faculty Name	Research area(s)
 <p>Palash Mandal</p>	<p>Fatty Liver Disease, Development of therapeutic interventions to normalize both alcohol and nonalcoholic-induced increases in hepatic inflammation, which could be used to treat patients with ALD, NASH, Role of gut-microbioata in Fatty Liver Disease, Obesity and Diabetes.</p>
 <p>Gayatri Dave</p>	<p>Product and Process Development such as Eco-friendly fabric and Reporter assays for Microbial activity testing</p> <p>Anti-microbial activity testing Product characterization Toxicity analysis assays</p>


Faculty Name	Research area(s)
 <p>Janki N. Thakker</p>	<p>Ecofriendly Bricks and construction materials: Plant Microbe interaction Agriwaste management (Biochar preparation and use as bio fertilizer) Purification and applications of plant as well as microbial pigments</p> <p>Use of Magnetic nanoparticles in controlling plant pathogens</p>
 <p>Aditi Buch</p>	<p>Nonbiological applications of biomolecules</p>

Faculty Name	Research area(s)
 <p>Bragadish Iyer</p>	<p>Study of redox reactions, electroactive biopolymers, corrosion due to biofilms, biocatalysis</p> <p>Development of Bioadhesives</p>
 <p>Seema Amin</p>	<p>Liquid Waste Management</p> <p>Biotransformation</p> <p>Liquid Waste Management</p>
 <p>Anamika Jha</p>	<p>Nanotechnology for post-harvest storage applications</p> <p>Biofertilizers and plant-microbe interactions</p>

Faculty Name	Research area(s)
 <p>Anoop Markande</p>	<p>Bioconcrete development</p> <p>Development of Moonlighting proteins</p> <p>Effect of medical imaging on surface microflora</p> <p>Protein Molecular Dynamics simulation</p>
 <p>Kirankumar Patel</p>	<p>Plant Microbe interaction, Optimization of Large scale Bio-control cultivation, Enzyme Engineering</p>

Faculty Name	Research area(s)
 <p data-bbox="453 782 733 825">Chirayu Desai</p>	<p data-bbox="975 301 2206 396">Integrated eco-electrogenic system for efficient and sustainable treatment of textile wastewater</p> <p data-bbox="975 596 2117 639">Microaerophilic-aerobic based treatment of textile effluents</p> <p data-bbox="975 782 1696 825">Microbial diversity across the Ganges</p>
 <p data-bbox="428 1325 759 1368">Bhavtosh Kikani</p>	<p data-bbox="975 1153 2142 1253">Protein engineering: Purification of various enzymes; Enzyme Immobilization using nanomaterials to increase its stability</p>

Faculty Name	Research area(s)
 <p>Tapan A. Patel</p>	Toxicity (in vitro and in vivo) and ameliorative studies of herbal-natural compounds, phytochemical analysis, cytogenetics
 <p>Mandar Kulkarni</p>	Nutrition (Probiotics), Host-microbe interactions and Computational Biology
 <p>Janki K. Patel</p>	Plant-Microbe interaction; Biocontrol activity, ISR and SAR response in plant

Faculty Name	Research area(s)
 <p data-bbox="598 911 828 953">Neeraj Jain</p>	<p data-bbox="1192 491 2300 644">Cancer Biology: Development of novel cancer therapeutic approach using magnetic nanoparticles for the treatment of solid tumors</p>
	<p data-bbox="1192 915 2326 1011">Synthesis of heterocyclic derivatives and evaluation of anti-cancer parameters</p>
	<p data-bbox="1192 1196 2313 1292">Immunotherapy for Colorectal Cancer: Focus on Cancer like Stem Cells & Advance stages</p>