



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

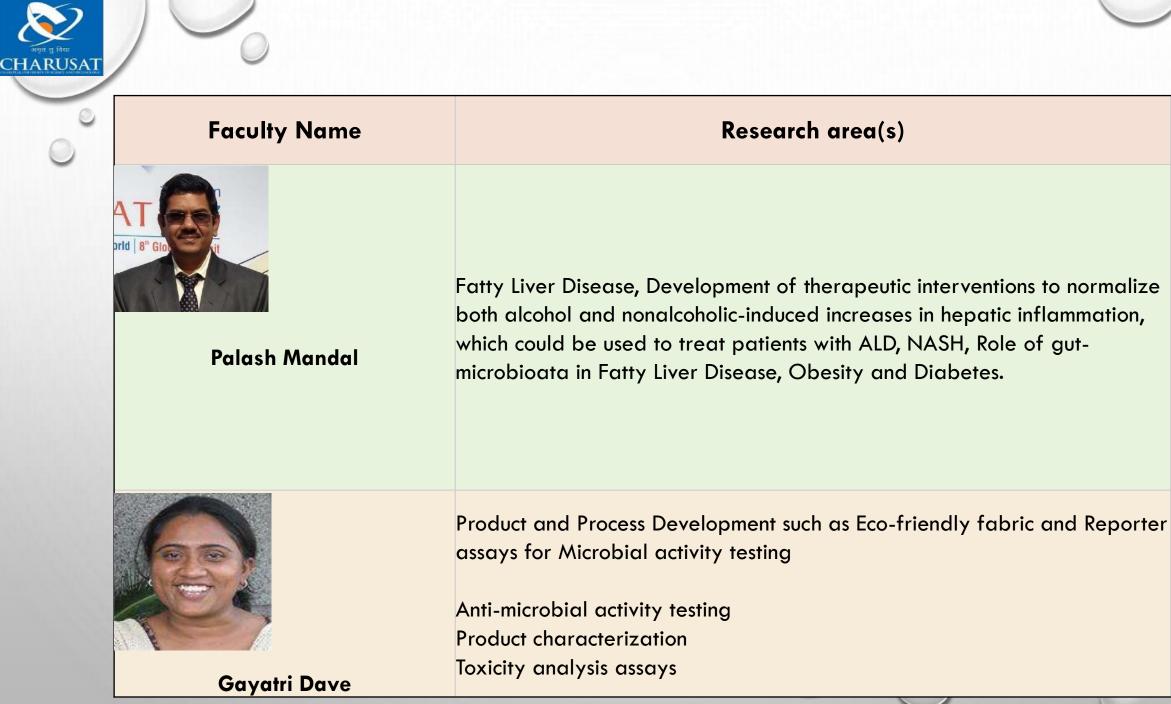
### **Research Areas**



# **P D Patel Institute of Applied Sciences**



### RESEARCH @ DEPARTMENT OF BIOLOGICAL SCIENCE (DBS)



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



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







#### Anoop Markande

#### Research area(s)

Bioconcrete development

Developmentn of Moonlighting proteins

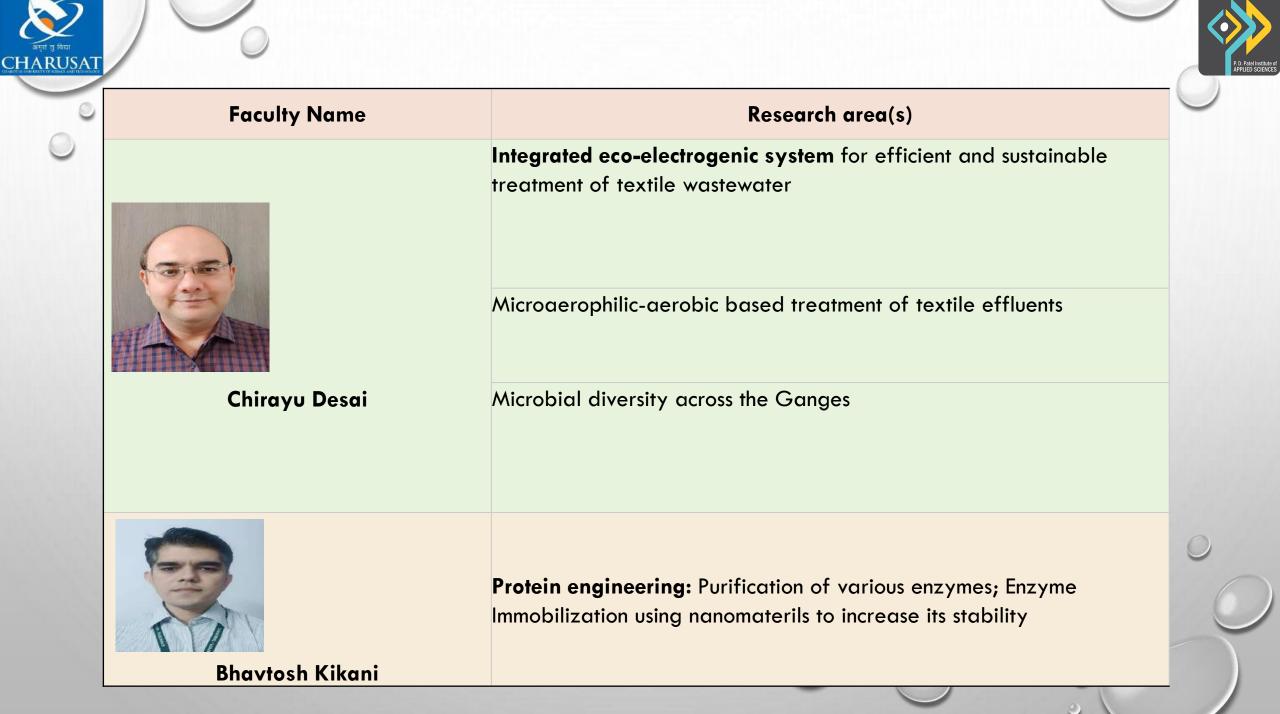
Effect of medical imaging on surface microflora

Protein Molecular Dynamics simulation



Kirankumar Patel

Plant Microbe interaction, Optimization of Large scale Bio-control cultivation, Enzyme Engineering





CHARUSAT



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





# **Faculty Name** Research area(s) **Cancer Biology:** Development of novel cancer therapeutic approach using magnetic nanoparticles for the treatment of solid tumors Neeraj Jain Synthesis of heterocyclic derivatives and evaluation of anticancer parameters Immunotherapy for Colorectal Cancer: Focus on Cancer like

Stem Cells & Advance stages