

Specialized Research Areas –Fourth Year Research Program (2020/21 Batch)		
Department	Name of the Lecturer	Specialised research area
Multidisciplinary Studies	Snr. Prof. Pradeep Jayaweera	algae oil-based project
		wood dust as a fuel
		Crop Yield Prediction Model Using AI
		swarm intelligent optimization algorithm
		Si Based suppliment for Paddy cultivation
		Development of cockroach eradicator
		Tea quality with Kinetics
		Mutations in Tadpole metamorphosis with the effects of light
		Mosquito repellent trap
		Titanium phosphate enrichde soils for rice and geen expression
	Dr. Janitha Walpita	Photocatalytic degradation of organic dyes/ antibiotics
		Potential applications of mangroves in environmental remediation
		Removal of microplastics from water bodies using biopolymers
		UV induced chlornated natural products for agricultural applications
	Dr. Jayani Kulathunga	
		Quality and utilization of grains and legumes
		Dietary fiber functionality and fermentability
		Food product development and value addition
		Sustainable postharvest technologies
		Biodegradable packaging films
Aquatic Bioresources	Dr. Erandi Pathirana	Aquatic Animal Health
		Aquatic Animal Microbiome
		Aquatic Animal Microbiology
		Aquatic Animal Anaesthesia

		Seafood Microbiology
	Dr. G.Y. Liyanage	Water Quality & Microbial Contaminants (including studies related to pathogenic bacteria in water)
		Bioremediation of environmental contaminants
		Algae and Cyanotoxins
		Antibiotic contaminations, antibiotic resistance and antibiotic degradation
		Microplastic studies (related to water)
	Dr. Kumudu Bandara	Environmental toxicology
		Aquatic Biomarkers
		Zebrafish analysis and gene expressions
		Marine pollutants and biological consequences
		Biochemistry in aquatic plants (seaweeds)
	Dr. A.L.I. Hassan	Fish Feed Technology
		Sustainable Aquaculture Technology - Biofloc
		Shrimp farming
		Mollusc farming
		Life Cycle Analysis
		Blue carbon assessment
Urban Bioresources	Dr. Surani Chathurika	Development of Advanced fertilizers
		Soil Amendments
		Microplastic/ Nano contamination in agriculture lands
		Peptide applications
		Seed coatings
		Environmental soil science
	Dr. Udari Ranathunga	Plant science and breeding
		Controlled environment farming and design

		Edible landscaping and mapping
		Plant tissue culture
		Papaya latex research
	Dr. Anusha Ekanayake	Plant pest and disease identification
		Plant pest management and crop protection
		Isolation and identification of fungi
		Mushroom cultivation
		Mushroom value addition