



Postgraduates by Research in SCHOOL OF INDUSTRIAL TECHNOLOGY

The School of Industrial Technology offers more than 60 research fields for master's and doctoral degrees (M.Sc. and Ph.D) under four programmes, which are relevant to the sustainable development and technology of food, green material, and energy. The school is well-equipped with latest analytical and processing equipment to support the wide range of research fields listed below:

ENVIRONMENTAL TECHNOLOGY

- Atmospheric Physics
- Atmospheric Chemistry
- Ecological Process
- Ecosystem Services
- Environmental Microbiology
- Environmental Forensics
- Stable Isotope Fingerprinting
- Clean Technology
- Occupational Safety & Health
- Renewable & Sustainable Energy Technologies
- Solid Waste Treatment & Management
- Water & Wastewater Treatment & Management
- Environmental Monitoring & Assessment
- Hydrogeology & Watershed Management
- Indoor Environmental Quality



FOOD TECHNOLOGY

- Food Chemistry
- Food Safety
- Food Processing & Preservation
- Food Science
- Food Packaging
- Food Microbiology
- Food Analysis
- Food Engineering & Nutrition
- Functional Food
- Food Defense
- Food Structure
- Primary Products Technology
- Foodborne Pathogens
- Food Quality Management
- Food Regulations



BIORESOURCE, PAPER AND COATINGS TECHNOLOGY

- Biomass Sciences & Technology
- Bioresource Durability, Degradability & Protection
- Chemical Modification of Bioresource
- Biomass Processing & Applications
- Bioresource based Products & Design
- Analytics & Biomass Management
- Environmentally Sustainable Pulp Bleaching Technology
- Environmentally Friendly Pulping / Alternative Pulping Technology
- Paper Recycling / Paper Technology
- Natural Fibre Filled / Reinforced Polymer Composites
- Green Materials / Green Composite / Additive Manufacturing
- Biocomposites / Hybrid Biocomposites / Nano Biocomposite
- Polymer Chemistry & Resin Technology
- Surface Coatings Technology
- Radiation Curing Technology
- Adhesives Science & Technology
- Polymer Emulsion
- Nanofiber & Nanocellulose Sciences & Technologies
- Biomaterials / Biopolymer / Hydrogel / Aerogel
- Cellulose derivatives



BIOPROCESS TECHNOLOGY

- Bioprocess Technology
- Enzymology / Enzyme Technology / Biocatalyst
- Waste Treatment through Bioprocess Technology
- Fermentation Technology
- Pharmaceutical Bioprocess Technology
- Biochemistry / Metabolite Technology
- Animal Tissue and Cell Culture Technology
- Food / Nutraceutical Bioprocess Technology
- Process automation & biosensor
- Agriculture Bioprocess Technology
- Biomass and Bioenergy Technology
- Biomolecular Technology
- Recombinant DNA Technology
- Stem Cell Technology
- Biosensor Technology
- Bioinformatics
- Omics Technology



Duration of Candidature

A student who is registered for a Masters or PhD degree must fulfill the duration of candidature as follows:

Programme	Full Time		Part Time	
	Minimum	Maximum	Minimum	Maximum
Doctor of Philosophy	4 Semesters	10 Semesters	6 Semesters	15 Semesters
Master (Research)	2 Semesters	6 Semesters	4 Semesters	10 Semesters

Financial Aid!

The fund is ready from reputable financial institution.

For more details: Kindly email with the subject "PG Research" to

PPTI Dean's Office, dean_ind@usm.my

www.indtech.usm.my   



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