



Undergraduates in SCHOOL OF INDUSTRIAL TECHNOLOGY

The School of Industrial Technology offers four undergraduate academic programs which are well-designed to meet the growing need of sustainable development and technology in the fields of food, green materials, and energy, as listed below:

Environmental Technology, Bioresource Technology, Food Technology and Bioprocess Engineering Technology

3.5 - YEAR PROGRAMME

ENVIRONMENTAL TECHNOLOGY (US6524005)

- Chemical Calculations
- Heat Transfer
- Computer Applications
- Fluid Mechanics
- Geographic info system
- Unit Operations
- Waste Treatment
- Water Treatment
- Air Pollution Control
- Mass Transfer
- Noise & Vibration Control



- Forensics Indoor
- Environment
- Hydrology
- Chemodynamics
- Research Project

4 - YEAR PROGRAMME

FOOD TECHNOLOGY (US6541001)



- Sensory Science
- Food Product Development
- Food Processing & Preservation
- Food Chemistry
- Food Packaging
- Food Microbiology
- Food Analysis
- Food Engineering
- Functional Food & Nutrition
- Halal, Quality & Safety

3.5 - YEAR PROGRAMME

BIORESOURCE TECHNOLOGY (US6543001)



- 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

4 - YEAR PROGRAMME



BIOPROCESS ENGINEERING TECHNOLOGY (US6524006)

- Fermentation Technology
- Enzymology/ Enzyme Technology/ Biocatalyst
- Waste Treatment Through Bioprocess Technology
- Pharmaceutical Bioprocess Technology
- Biochemistry/ Metabolite Technology
- Process Control/ Automation
- Food/ Nutraceutical Bioprocess Technology
- Bioprocess Engineering Technology (inter-discipline)

Entry Requirements

Programme	STPM	Matriculation	Diploma
Bioresource Technology	Minimum CGPA 2.00 AND Grade C in any 2 following courses: Chemistry, Biology, Physics, Mathematics T	Minimum CGPA 2.00 AND Grade C in any 2 following courses: Chemistry, Biology, Physics, Mathematics, Physics Engineering Chemistry Engineering, Basic Engineering	Pass a Diploma in a related field with a minimum CGPA of 2.00
Environmental Technology	Minimum CGPA 2.00 AND Grade C in any 2 following courses: Chemistry, Biology, Physics, Mathematics T	Minimum CGPA 2.00 AND Grade C in any 2 following courses: Chemistry, Biology, Physics, Mathematics, Physics Engineering/ Chemistry Engineering, Basic Engineering	Pass a Diploma in a related field with a minimum CGPA of 2.00
Bioprocess Engineering Technology	Minimum CGPA 2.75 AND Grade C in any 2 following courses: Chemistry, Biology, Physics, Mathematics T	Minimum CGPA 2.75 AND Grade C in any 2 following courses: Chemistry, Biology, Physics, Mathematics, Physics Engineering/ Chemistry Engineering, Basic Engineering	Pass a Diploma in a related field with a minimum CGPA of 2.75
Food Technology	Minimum CGPA 3.00 AND Grade B in any 2 following courses: Chemistry, Biology, Physics, Mathematics T	Minimum CGPA 3.00 AND Grade B in any 2 following courses: Chemistry, Biology, Physics, Mathematics, Physics	Pass a Diploma in a related field with a minimum CGPA of 3.00

Financial Aid!

Funding is available from reputable financial institutions.

For more details: Kindly email with the subject "PPTI UG" to

PPTI Dean's Office, academic_indtech@usm.my or  +6011 6330 6108

www.indtech.usm.my



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