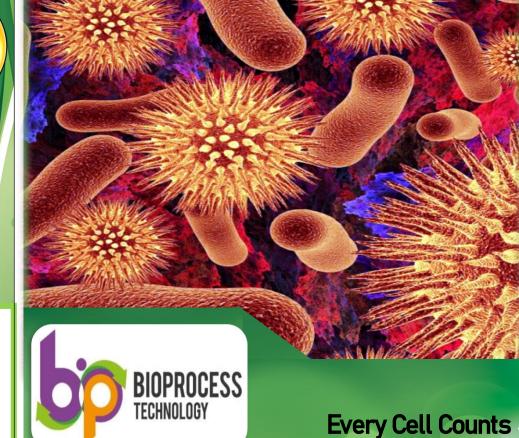


PEX **UNIVERSITI SAINS MALAYSIA**

BACHELOR OF TECHNOLOGY BIOPROCESS (SY07)



Fax: +604 653 6357 Email: dean_ind@usm.my

https://bit.ly/2XydsRs



Facebook

Our Programme

Bioprocess Technology is the sub-discipline within Biotechnology that combines living matter, in the form of organisms or enzymes, with nutrients under specific optimal conditions to make the desired product. The discipline is responsible for translating discoveries of life sciences into practical and industrial products, processes and techniques that can serve the needs of the society.

Multi-disciplinary



Bioprocess Technology covers several fields:

- 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 Technology (inter-discipline)

Bioprocess Technology Timeline

FUNDAMENTAL OF **BIOPROCESS TECHNOLOGY** vear

Fundamental of Bioprocess Technology, Biology for Technologist, Mathematics, Process Fluid Mechanics, Bioanalysis, Industrial Microbiology, Biochemistry

2nd

Malaysia Board of Technologist

(MBOT); Graduate Technologist,

Professional Technologist (Ts.)

GRADUATION

VARIOUS APPLICATION OF **BIOPROCESS TECHNOLOGY**

Postgraduate Studies

(M.Sc, Ph.D)

DNA and metabolite technology, Statistic with Computer Application, Cell and Tissue Culture, Computer Application In Industry, Bioprocess vear Instrumentation and Control. Bioreactor Operation, Renewable Biomass

ADVANCED IN BIOPROCESS TECHNOLOGY AND INDUSTRIAL TRAINING

Experimental Design with Computer Application, Management of Halal Food. Issues in Bioprocess Technology, Food Bioprocess Technology, Bioprocess Technology, Industrial Training

FINAL YEAR PROJECT AND PRODUCT DEVELOPMENT

3rd

vear

Bioproduct Development, Bioprocess Technology Research Project, Practical in Downstream Processing, Environmental Bioprocess Technology, Food Quality Management and Food Regulation, Quality Assurance and Safety of **Bioprocess Product**

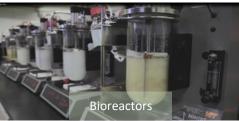
Yes, this programme is suitable for you if you are

- Determined in exploring the world of bioprocess technology
- Seeking the natural processes in bioproduct development that is high in demand
- Enthusiastic in exploring the interdisciplinary approach in solving environmental issues

Facilities

4th

year



Laminar flow for cell cultivation

Technologist Campus Life



Entry Requirements

- Sijil Pelajaran Tinggi Malaysia (STPM)
- Matrikulasi Kementerian Pengajian Malaysia (KPM)
- Asasi Sains, Asasi UiTM (Universiti Teknologi MARA)
- A-Level, IB, USMAT, SAM, etc

Scan QR code for further information



https://bit.ly/2RCd3s4

Career in private and government sectors

Future Career

Bioprocess Technologists are needed in industries involved with research, development, innovation and manufacture of biomaterials such as vaccines, enzymes, antibiotics, food and agricultural products and pharmaceutical supplements.

- Quality control (microbiologist, biochemist, chemist, cell biologist)
- Scientist
- **Biostatistician**
- Data associate
- Manufacturing associate
- Health and safety manager
- Maintenance manager
- Process developer