

“BIOPROCESSES ENGINEERS CREATE SUSTAINABLE WORLD”

Venue

Centre for Advanced and Professional Education (CAPE) UTP,
Level 16, Tower 2, Menara Kembar Bank Rakyat,
Jalan Travers
50470 Kuala Lumpur.

Date and Time

Daily lectures: 8.00 am - 5.00 pm
(Monday) 13 - 14 February (Tuesday) 2017 .

Fees

For working professionals - RM 500
For students - RM 300

Applications and Cancellations

Application forms can be found on the website www.ums.edu.my/fkj in order to ensure a place on the course applicants are requested to send a signed registration form to the course administrator: Mr. Malcolm Jilimin.

Confirmation will be sent on receipt of an application form.

Applications close on **Tuesday, 31 January 2017.**

Cancellations must be received one week before the start of the course, or the full fee will be charged.

Contact Info

Mr. Malcolm Jilimin
Course Administrator
Bioprocess Engineering Course (BPE 2017)
Faculty of Engineering,
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“BIOPROCESSES ENGINEERS CREATE SUSTAINABLE WORLD”



FIRST ANNOUNCEMENT Bioprocess Engineering Course (BPE2017)

13 - 14 FEBRUARY 2017

CENTRE FOR ADVANCED AND PROFESSIONAL EDUCATION (CAPE) UTP
LEVEL 16, TOWER 2, MENARA KEMBAR BANK RAKYAT

Who should attend?

This course will be of benefit to all those who are interested in Biochemical Engineering, Biopharmaceutical Engineering, Bioreactor Engineering, Environmental Engineering, Enzyme Engineering, Fermentation Technology, Food Biotechnology and Metabolic Engineering. With the exponential current and future growth of the chemical and allied industry, adequately trained pool of Chemical and Bioprocess Engineers will be in great demand. Participants will be exposed to theory as well as practical considerations in Bioprocess Engineering. This is an opportunity to avail to enhance the knowledge in frontier program of bioprocess engineering.

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UMS
UNIVERSITI MALAYSIA SABAH



FIRST ANNOUNCEMENT - BIOPROCESSES ENGINEERING COURSE

Course objectives

This 2 days intensive course will be presented by Professor from the Universiti Malaysia Sabah (UMS). The speaker will present a systematic progression of topics from metabolic pathways and networks, thermodynamics of bio reactions and bio catalysis. Following from this, bioreaction kinetics are further explored and applied in the design and operation of ideal and industrial bioreactors including Metabolic engineering. It is presented as a IPD course for engineers and scientists. It also forms part of the taught bachelor and Master's coursework in Bioprocess Engineering at different Universities, contributing to 8 and 16 credit courses respectively.

Course content from the following topics

Growth & Metabolism
Modeling & Monitoring
Control of Bioprocesses
Power Requirements in Fermentation Vessels
Oxygen Transfer in Fermentation Vessels
Biology/Genetics: Integration with Engineering
Translation to Different Operating Scales
Bioreactor Design & Configuration
Bioprocess Synthesis and analysis
Bioprocess Simulation & Economics
Biomaterials and Bio economy
Metabolic Engineering
The Challenges of Downstream processing
Membrane Applications
Life Cycle Assessment in Bioprocess Industry
Microbial Engineering Technique - ROBUST

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Universiti Teknologi Petronas' Centre for Advanced & Professional Education (CAPE),
Menara Bank Rakyat, Kuala Lumpur

About the Speaker

Prof. Dr. Ravindra Pogaku has diverse and intense, yet rewarding experiences in teaching, research, industry, executive and administrative fields spanning over 35 years. He was visiting Professor at the Pennsylvania State University and Cornell University, USA. Professor Pogaku has an expertise in the area of bioprocess engineering for high value products, biofuels and bioenergy. Over the course of his 35 years, he has published more than 225 articles in journals and proceedings including books. Professor Pogaku is bestowed with the national and international prestigious awards. He was also a UNESCO consultant on Sustainable energy project. He serves as the editor-in- chief, editorial board member, guest editor and reviewer for multiple referred journals. Professor Pogaku has delivered invited lectures, plenary talks and keynote address at various National and International institutions, symposia, conferences etc. Professor Pogaku has organized short term refresher courses, workshops, conferences and seminars. His focus is on the Green engineering and technology for sustainable development of the society.

Format

The course is presented in an intensive 2 days format, which includes lectures and problem-based learning (PBL) methods.

Cost

The fee for the course for IDP participants on BPE will be structured as follows:

- For working professionals - RM 500
- For students - RM 300

This fee includes a set of course presentation notes, breakfast, lunch and hi tea at the venue.

Certificates and Individual Professional Development (IPD) Points

A certificate of attendance will be awarded for IPD participants. Participants need to attend at least 80% of the lectures to qualify for an attendance certificate.

IPD participants can also request a formal university transcript from UMS, which will show this course as part of a Professional Development Career.