Bachelor of Science (Hons.) Polymer Technology (AS243)

Year Established	**1998**
Location	**Shah Alam**
Intake	**September**
Unit Credits	**127**
Duration	**3 1/2 years (7 Semester)**
No. of Academic Staff	**16 (Shah Alam)**
No. of Non-Academic Staff	**5 (Shah Alam)**
Labs/Workshops	**5**

Program Descriptions

Polymer Technology has great impact in our everyday lives and can be seen as the pillars of K-economic growth and advancement in S & T for the nation. This is a multidisciplinary programme which covers the fundamental on polymer sciences, structures and properties of various polymers including plastic, elastomer, rubber lattices, and composites. This programme also exposes undergraduates to the skills of processing and fabrication of materials and product, the skills to spectroscopically characterize the materials, to carry out the destructive and non—destructive testing on the materials and also to critically analyse the result. Throughout the lab session, students will be given the opportunity to operate the instruments and machinery under the supervision of lab assistant. As one of the programme requirements, every student is obliged to complete a final year project which will expose the students to not only the research skills but also the knowledge of reports writing and skills of communication. Students will be able to fit their interest in various current polymer field such as nanotechnology, advanced materials, polymer synthesis, ferroelectric polymer, smart coating, eco-friendly polymer, rubber nanocomposites and advanced composites. At the end of the programme, students will be attached to the related industry for 6 months as to expose the students with the industrial working environment.

Job Opportunities

Graduates of this 3 ½ years course will find employment in various industries such as automotive industries, aero-structure industries, electronic industries, rubber-goods manufacturer, tyres manufacturer, chemical industries, research institute, testing laboratories, government and semi-government organisations as Control or Assurance Executive, Marketing Executive, Production Engineer, Process Engineer, Technical Sales Executive, Technical Servicing Executive, Product and Mould Designer and researcher. Apart from that, graduate from this programme may alternatively start their own career as techno-prenuers.

Opportunities for Further Studies

This programme offers a very promising opportunity for those who wants to continue their studies as post-graduates (Master and PhD) in various fields offered by tertiary institutions, either locally or abroad. Among the various fields to further studies in this programme are:

- Sustainable multifunctional polymers
- Natural based polymers for green impact
- Thermoset polymer composites for medical implants
- Polymer synthesis by microorganisms
- Conducting polymers
- Rubber nanocomposites
- Ferroelectric polymer memory devices
- Polymer coating in drug delivery system

Entry Requirements

GENERAL REQUIREMENTS

- ✓ Pass SPM / equivalent
- ✓ Credit in Bahasa Melayu / Malaysia in SPM / equivalent
- ✓ At least Grade C (NGMP 2.00) in Pengajian AM with CGPA at least 2.00
- ✓ Pass KPM Matriculation / UM Foundation in Science / UiTM Foundation with at least CGPA 2.00
- ✓ Pass Diploma from accredited IPT by Malaysia Government
- ✓ Malaysian University English Test (MUET) Band 1

1. KPM MATRICULATION / UITM FOUNDATION / UM FOUNDATION GRADUATE

Grade C (2.00) in three (3) subjects including Chemistry / Engineering Chemistry and the following subjects:

- Mathematics
- Physics / Engineering Physics

AND

Pass SPM / equivalent with credit in Mathematics / Additional mathematics and pass English

AND

MUET Band 2

2. STPM / EQUIVALENT GRADUATE

CGPA 2.30

Grade C (NGMP 2.00) in two (2) of the following subject:

- Chemistry
- Mathematics T / Further Mathematics T / Physics

AND

Pass SPM / equivalent with credit in Mathematic / Additional Mathematics / Mathematic July and pass English

AND

MUET Band 2

3. DIPLOMA UiTM GRADUATE

CGPA 2.00
Diploma in Polymer technology

CGPA 2.30
Diploma in Science, Industrial Chemistry, Chemical Engineering

AND

MUET Band 2

4. DIPLOMA GRADUATE FROM HIGHER EDUCATION INSTITUTION ACCREDITED BY MALAYSIA GOVERNMENT

- ✓ IPT Diploma graduate in Science / Technology / Chemical Engineering

AND

Pass SPM / equivalent with five (5) credit including Mathematics / Additional Mathematics and pass English (Min. CGPA 3.00)

- ✓ IPT diploma graduate in Science / Technology / Chemical Engineering with two (2) years working experiences in Polymer Technology field

  AND

  Pass SPM / equivalent with five (5) credit including Mathematics / Additional Mathematics and pass English

5. APEL (ACCREDITATION OF PRIOR EXPERIENTIAL LEARNING) GRADUATE

- Pass MQA (Aptitude test and Portfolio Evaluation).
- Aged not less than 21 years old in the year of application.
- At least seven (7) years of working experiences in related field.
- Pass the interview at Faculty level.

AND

MUET Band 2

Please contact:

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Social Media accounts : -