

APPLIED CHEMISTRY

JPT/BPP(R/545/6/0049)9/26



UNIVERSITI
TEKNOLOGI
PETRONAS



WHAT IS APPLIED CHEMISTRY?

Applied chemistry is essentially the application of the principles of chemistry to resolve the industrial world problems while maintaining sustainable developments. This includes producing biodegradable plastics, mitigating global warming, treating toxic wastewaters and solid wastes and promoting green processes for industries.

WHAT DOES AN APPLIED CHEMIST DO?

Applied chemists are involved in designing and improving the products we utilise today, in an economical, efficient and practical way.

Besides being creative and innovative, they also control the quality of industrial outputs to ensure that the marketed products are safe for consumers.









A peek into an Applied Chemist's day

WHY STUDY APPLIED CHEMISTRY AT UTP?

- 1 Comprehensively designed programme with strong inputs from industry experts
- 2 Students can choose specialisations that are in demand by the industry during their final year of study
- 3 World-class teaching and learning, research capabilities as well as state-of-the-art labs and facilities
- 4 Strong partnership with major industry players such as PETRONAS, NanoMalaysia, Spritzer, Agilent, Camfill, YTY, J-Biotech and various government agencies
- 5 UTP graduates are highly sought after by industry employers, with 90% being employed within 6 months after graduation
- 6 More than 70% of UTP alumni are currently working in oil and gas industry
- 7 The academic staff are highly qualified and experienced. Thus, undergraduate students can benefit greatly from their knowledge and expertise
- 8 The programme is internationally recognised by The Royal Society of Chemistry, United Kingdom (RSC). With RSC accreditation, it will improve the visibility and recognition of UTP Applied Chemistry degree and afterwards enhance our graduates' opportunities for worldwide employments



WHAT AM I GOING TO LEARN?

 National / University	 Common Core	 Core Discipline by Programme
<ul style="list-style-type: none">• Management, Social Sciences and Humanities• Introduction to Oil and Gas• Scientific Inquiry• Co-Curriculum	<ul style="list-style-type: none">• Probability and Statistics• Health, Safety and Environment	<ul style="list-style-type: none">• Analytical Instrumentation• Separation Process• Molecular Spectroscopy• Petrochemical Processes• Hydrocarbon Chemistry• Computational Chemistry
 Specialisation	 Project Based	 Minor (Optional)
<ul style="list-style-type: none">• Petrochemistry• Sustainable Chemistry• Nanotechnology	<ul style="list-style-type: none">• Science Team Project• 7 months Structured Industrial Internship Programme• Community Engagement Project• Final Year Research Project	<ul style="list-style-type: none">• Management

Contact

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