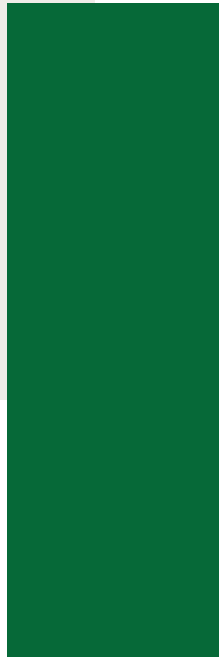


# MASTER OF **SCIENCE IN ANALYTICAL CHEMISTRY**

Community-Driven University For a Sustainable World



FACULTY OF RESOURCE SCIENCE  
AND TECHNOLOGY

by coursework

**OCTOBER**  
Intake

# INTRODUCTION

The Master of Science in Analytical Chemistry programme is designed to produce highly skilled graduates who can meet the growing demand for expertise in chemical analysis across research, industry, environmental monitoring and food safety sectors. The programme offering is aligned with the nation's aspirations towards the Industrial Revolution 4.0 (IR 4.0), integrating modern analytical instrumentation, advanced analytical approaches, and digital technologies that support precise and reliable chemical analysis. It incorporates the use of modern equipment, automated analytical systems and emerging technologies such as Internet of Things (IoT)-based monitoring tools that are increasingly applied in diagnosing and identifying chemical contaminants, pharmaceuticals, food toxins and environmental pollutants. Through comprehensive training in advanced analytical chemistry techniques and scientific problem-solving, the programme aims to strengthen analytical capability, innovation and research competency among graduates. These competencies contribute to the achievement of the United Nations Sustainable Development Goals, particularly SDG 4 Quality Education, SDG 9 Industry Innovation and Infrastructure and SDG 12 Responsible Consumption and Production. The programme also supports Sarawak's economic transformation agenda under the Post-COVID-19 Development Strategy 2030 and the Sarawak Corridor of Renewable Energy (SCORE), which emphasize innovation, sustainable resource management and human capital development. Through collaboration between academic experts and industry practitioners, the programme provides students with strong theoretical knowledge, practical analytical skills and professional competencies required for leadership and lifelong learning in analytical chemistry. The programme is based on a trimester system: October, February and June in an academic year.

## ENTRY REQUIREMENTS

- A Bachelor's Degree (Level 6 Malaysian Qualifications Framework, MQF) in Chemistry with a minimum CGPA 2.50 or equivalent, as accepted by the HEP Senate; or
- A Bachelor's Degree (Level 6, MQF) in Chemistry or related fields or its equivalent but has not achieved CGPA of 2.50, can be accepted subject to a minimum of 5 years' working experience in the relevant field; or
- Other equivalent qualifications recognized by the Malaysia Government and approved by HEP Senate.
- For international students, a minimum score of 5.0 in International English Language Testing System (IELTS) or its equivalent (e.g. MUET Band 3; TOEFL iBT 33; TOEFL Essential (Online) 6.5, Pearson Test of English 43, Cambridge English Qualifications and Tests 147)\* is required.
- Possess APEL.A (T-7) certificate

Special Programme Requirements:

- Applicants are not categorised with physical disabilities which prevents the handling of lab and field works; and
- Applicants need to submit a written paperwork (1-3 pages) stating the intention of applying to the programme.

## ELIGIBILITY FOR APEL.A (T-7)

- Aged 30 years and above in the year of application
- Possess STPM/Diploma or other qualification recognized as equivalent
- Have relevant working experience
- Applicants for Master's Degree (APEL T-7) must undergo an eligibility screening before submission

## POTENTIAL APPLICANTS

- Academicians
- Fresh graduates
- Practitioners

## DURATION OF PROGRAMME

Full Time  
**1-2 years**

Part Time  
**2-4 years**

## PROGRAMME SCHEDULE

The programme requires students to accumulate 40 credit hours in their studies. All teaching and learning activities are conducted during the weekends (Saturday & Sunday) for both mode of study (full time & part time).

## FACILITIES & RESOURCES

- Perpustakaan Tun Abdul Rahman Ya'kub (PeTARY)
- Computing Facilities
- Online Learning Support
- Resources Rooms
- Chemistry Research Lab

## PROGRAMME STRUCTURE

### Core Courses

STK6023	Separation Techniques in Analytical Chemistry
STK6033	Analytical Chemometric and Applied Statistics
STK6043	Chemical Laboratory Safety
STK6053	Research Methodology
STK6073	Environmental Monitoring
STK6123	Strategic Entrepreneurship
STK6133	Quality Assurance in Laboratory
STK6013	Research Training Project
STK6094	Dissertation

### Elective Courses (Choose 4)

STK6013	Current Advances Analytical Chemistry
STK6063	Advanced Spectroscopic Methods
STK6083	Imaging Technique and Applications
STB6023	Food Diagnostic
KMS6013	Human Resource Development
KMS6043	Management in the Workplace

## COURSE FEES

Full Time:

Malaysian student **RM18,966.00**

International student **RM28,900.00**

Part Time:

Malaysian student **RM19,312.00**

Fees include administrative, tuition and course materials for the duration of the programme.

Further payment will be required if the students extend their studies.

# CONTACT US

## **Dr Muhammad Abdurrahman Munir**

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Phone: +6082 582961 / +6012 996 1438  
Email: [mmabdurrahman@unimas.my](mailto:mmabdurrahman@unimas.my)

## **For General Inquiries**

### **Centre for Graduate Studies**

Universiti Malaysia Sarawak (UNIMAS)  
94300 Kota Samarahan, Sarawak, Malaysia.  
Website: <http://www.postgrad.unimas.my>  
Phone: +6082 58 1067/1066/1069

### **UNIMAS Business School**

Level 4, UNIMAS City Campus  
Lot 77, Section 22, KTLD  
Jalan Tun Ahmad Zaidi Aduce  
93150 Kuching, Sarawak, Malaysia.  
Website: <https://www.business.unimas.my>  
Phone: +6082-222111  
Email: [ubs@unimas.my](mailto:ubs@unimas.my)

# APPLICATION PROCEDURE

Application must be submitted online at  
**<https://oas.aa.unimas.my>**

Application is open throughout the year.

#### **Disclaimer:**

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