

Level 5 Diploma in WATER TREATMENT TECHNOLOGY



Programme Overview

This is a three-year (six semesters) Level 5 Diploma programme offered by Politeknik Brunei in collaboration with Hengyi Industries Sdn. Bhd and Lanzhou Petrochemical Polytechnic College.

The aim is to produce qualified Designed to produce highly skilled and qualified Water or Wastewater Operators to operate and maintain water-treatment plants and to monitor water quality.

The Diploma in Water Treatment Technology focuses on the study of systems and processes related to the water industry and variety of water quality testing and analysis.



Testimony

Nur Radifah binti Haji Rusli (21FTP1546)
Intake 11 Student
Diploma in Water Treatment Technology

"What I think of my studies so far is that I am doing my best. Being able to study at PB is a blessing and a great opportunity for me despite having a different background, but that doesn't stop me from learning new skills, improving my own personal development and my knowledge to advance my future career. I hope my friends and I can find our purpose in life, and studying goes easy for us. With hard work and dedication, when you put your mind to it, anything is possible."

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List of Modules

Semester 1

- HS1101 Health, Safety, Security and Environment
- GS1101 Pengajian Melayu Islam Beraja
- GS1102 Pendidikan Islam
- GS1127 Mathematics for Science
- GS1118 Communication Skills
- WT1201 General Chemistry

Semester 2

- IS1212 Information Technology
- WT2201 Basic Knowledge of Hazardous Chemicals
- WT2202 Inorganic and Analytical Chemistry
- WT2203 Utilization and Protection of Water Resources
- LA2501 Language

Throughout 3 years programme

- EM1108 Enrichment

Semester 3

- BE1102 Entrepreneurship Basics
- WT3201 Chemical Drawing
- WT3202 Water Treatment Microbiology
- WT3303 Water Environment Monitoring Technology
- WT3304 Chemical Unit Process Equipment I
- LA2501 Language

Semester 4

- WT4201 Environmental Impact Assessment
- WT4202 Technology of Water Pollution Control
- WT4203 Industrial Instrumentation Automation
- WT4304 Chemical Unit Process and Equipment II
- WT4305 Chemical Engineering CAD Training
- LA2501 Language

(Industrial Base Learning)

Semester 5 & 6

- WT5301 Professional Knowledge and Competency I
- WT5302 Professional Knowledge and Competency II

Testimony

Lim Chun Wei (21FTP1549)
Intake 11 Student Diploma in Water Treatment Technology

"To start with, I would like to thank my amazing lecturers for guiding us and always supporting us even in these challenging times during the Covid-19 pandemic. Therefore, I have the ability to understand and gain on my learning throughout the Covid-19 pandemic. Moreover, my wonderful 29 classmates and I had been supportive of each other, hard working and also built our relationship through communication. Lastly, I wish all my skills and studies will satisfy the requirements for the career that I dream to work on."

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Career Progression

Upon completing the programme, graduates will have the opportunity to be employed by Hengyi Industries Sendirian Berhad as Water or Wastewater Treatment Operator. Career progression is in the following order (subject to changes from Hengyi Industries Sendirian Berhad):

- Trainee operator
- Process / onsite operator
- Lead / Chief operator
- Shift Team Leader
- Engineer



Other career opportunities:-

- Industrial water and wastewater treatment (example Hengyi Petrochemical Plant)
- Water and distribution facilities (private or municipal levels)
- Water quality and environmental monitoring
- Analysis of water samples in a laboratory setting
- Water and wastewater treatment equipment services and product suppliers
- Water, Food and Drink companies

Academic Progression

These are the potential relevant Degree courses available in the local universities

**Subjected to CGPA attained and the university admission requirements*

- Bachelor of Engineering – (General Engineering & Chemical and Process Engineering) in UBD
- Bachelor of Science – (Geoscience) in UBD
- Bachelor of Art – (Environmental Studies & Geography and Development) in UBD
- Bachelor of Engineering (Honours) in Electrical and Electronic Engineering in UTB
- Bachelor of Science in Food Science and Technology in UTB
- Bachelor of Halal Sciences in UNISSA

