



فوليتيكنيك بروني  
POLITEKNIK BRUNEI

**VIRTUAL CONSULTATION**

**Level 5 Diploma in Chemical  
Engineering**

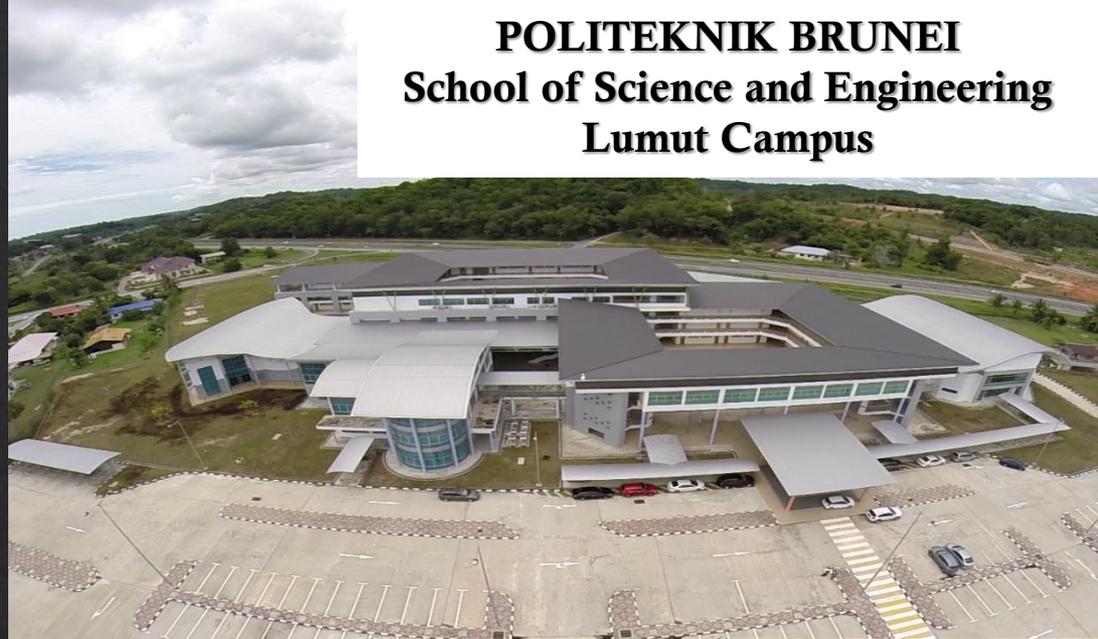
**18.8.2020 - 3.30pm**

# ▶ OVERVIEW

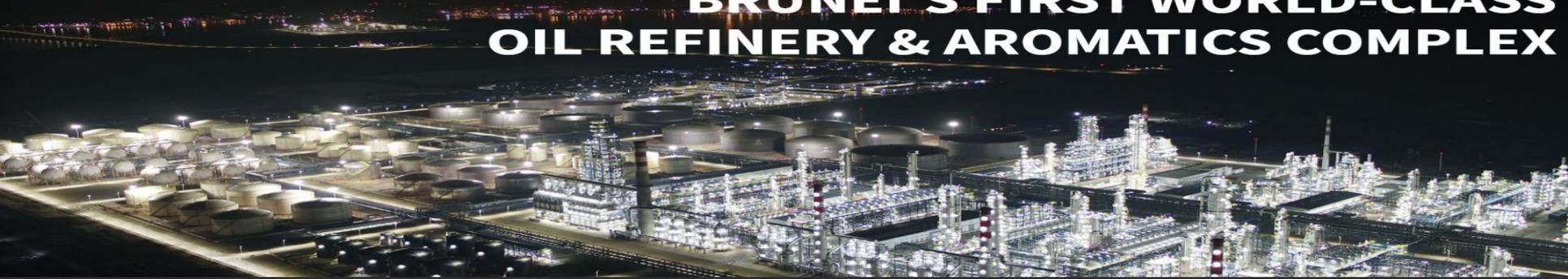
Level 5 Diploma in Chemical Engineering is a new programme offered by Politeknik Brunei under the School of Science and Engineering, in collaboration with Hengyi Industries Sdn. Bhd,

- To equip students with **knowledge and technical skills in petrochemical field.**
- The main aim of this programme is to be in line with Wawasan 2035 to produce highly skilled graduates with opportunities **to be part of Hengyi Industries as future Petrochemical Operators.**

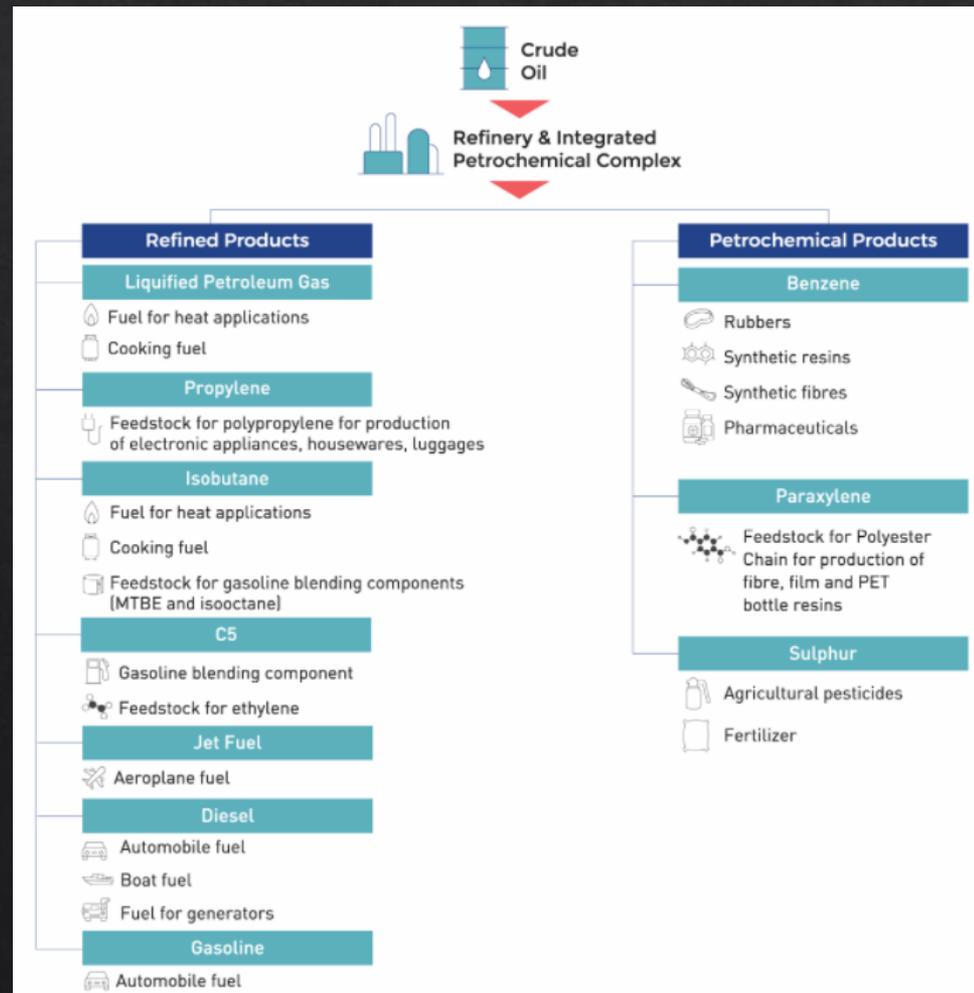
## POLITEKNIK BRUNEI School of Science and Engineering Lumut Campus



# BRUNEI'S FIRST WORLD-CLASS OIL REFINERY & AROMATICS COMPLEX



- Joint venture between government of Brunei Darussalam and Zhejiang Hengyi Group
- Brunei's first world-class oil refinery & aromatics complex
- Require high demand of local workforce to support the petrochemical operation in Brunei Darussalam.



## ► DURATION

<b>Diploma</b>	Level 5 Diploma (equivalent to Higher National Diploma)
<b>Commencement of programme</b>	January 2021
<b>Duration of Study</b>	3 Years (6 Semesters)
<b>Campus</b>	School of Science and Engineering, Lumut
<b>Collaborators</b>	Sem 1 to Sem 4 - Politeknik Brunei & Lanzhou Petrochemical Polytechnic College (China)  Sem 5 to Sem 6 – On-Job Training (OJT) @ Hengyi Industries Petrochemical Plant, Pulau Muara Besar

## Core & Essential Modules

Communication Skills For Engineering  
Mathematics for Engineering  
Pengajian MIB  
Pendidikan Islam  
Mandarin  
Health, Safety, Security and Environment  
Entrepreneurship  
Computer Technology

General Chemistry  
Introduction to Oil & Product  
Electrical and Electronic Principles  
Physical Chemistry  
Organic Chemistry  
Analytical Chemistry  
Inorganic Chemistry  
Basic Knowledge of Hazardous Chemicals

## Specialised Modules & Practical Training

Petrochemical Production Technology  
Polymer Production Technology  
Industrial Instrumentation Automation  
Chemical Unit Process and Equipment  
Chemical Equipment Foundation  
Chemical Unit Operation Training

Crude Oil Distillation Unit Training  
Thermal Cracking of Petroleum Hydrocarbon  
Training  
Atmospheric and Vacuum Distillation Unit  
Simulation Training  
Propylene Unit Simulation Training  
Practical Training of Petroleum Hydrocarbon  
Pyrolysis Unit

**On-the-job training (OJT) at Hengyi Industries Petrochemical Plant, Pulau Muara Besar**

# ▶ CAREER PROSPECTS

- Trainee Operator
- Process Operator/Onsite Operator
- Lead/ Chief Operator
- Shift Team Leader
- Engineer



# ENTRY REQUIREMENTS FOR LEVEL 5 DIPLOMA IN CHEMICAL ENGINEERING

## 'O' Level Qualification or its equivalent

Minimum **FIVE (5)** credits in GCE 'O' Level or its equivalent qualification (excluding Bahasa Melayu\*) with total acceptable points **between 5 to 26 points**. Subjects required for the programme are:

- ✓ Minimum credit **C6** in English Language at GCE 'O' Level Examination **OR** a minimum grade 'B' in IGCSE English (as a Second Language) **OR** an IELTS score of 6.0\*\*
- ✓ Minimum credit **B4** in Mathematics D or **C6** in Additional Mathematics
- ✓ Minimum credit **C6** in either **ONE (1)** of the following **most relevant** subjects:

Physics  
Chemistry

- ✓ Minimum credit **C6** in any **TWO (2)** of the following **relevant** subjects:

Additional Mathematics	Design and Technology
Biology	English Literature
Chemistry	Geography
Combined Science (Minimum grade B4)	Mathematics D ( <b>Minimum grade B4</b> )
Computer Science	Physics
Computer Studies	Principle of Accounts

\*To be eligible for the Brunei Government Scholarship a credit in Bahasa Melayu is required.

\*\*To be eligible for the Brunei Government Scholarship a higher IELTS score of 6.5 is required.

## TVET Qualification or its equivalent

**ND** (Level 4 NQF\*) in relevant field with **GPA ≥ 2.0** (based on a 3 points system)  
**OR**  
**Diploma** (Level 4 NQF\*) in relevant field with **GPA ≥ 2.7** (based on a 4 points system)  
**OR**  
**HNTec** (Level 4 NQF\*) in relevant field with **GPA ≥ 2.7** (based on a 4 points system)  
**OR**  
Other qualifications accredited by BDNAC\*

\*Relevant TVET Courses include (subject to change based on review of HENGYI's programme structure):  
Laboratory Science, Plant Engineering, Mechanical Engineering, Instrumentation and Control Engineering, Electrical and Electronics Engineering

\*NQF: National Qualification Framework

\*BDNAC: Brunei Darussalam National Accreditation Council

## Mature Applicants

Diploma in related field with **GPA ≥ 2.7** (based on a 4 points system)  
**OR**  
**TWO (2)** credits in GCE 'O' Level or its equivalent qualification  
**OR**  
Technical Qualifications / Training **WITH TWO (2)** credits in GCE 'O' Level or its equivalent qualification  
**AND**  
**FIVE (5)** years working experience in relevant field

\*Mature Applicants must have reached minimum age of 22 years and have left school for at least one year.

## ALL APPLICANTS

Must **PASS** the entrance test conducted by Politeknik Brunei where applicable  
**AND**  
Must **PASS** HENGYI's requirements and physical fitness test where applicable  
**AND**  
Must **PASS** colour blindness test conducted by relevant authority  
**AND**  
Must **CLEAR** Criminal Record Screening

All candidates will be subjected to undergo clearance process from National Security Department, Royal Brunei Police Force, Narcotics Control Bureau and Religious Enforcement Unit before being registered as students of Politeknik Brunei.

# ▶ WHERE TO APPLY?



ADMISSION  
JANUARY 2021

## *Apply to Politeknik Brunei*

For Brunei Identity Card  
Holder Applicants  
(Yellow, Purple/Red &  
Green IC Holder)

1

Register through HECAS:  
Go to  
[www.hecas.moe.gov.bn](http://www.hecas.moe.gov.bn)  
for more info

2

Complete your application by going to  
Politeknik Brunei Admission System  
(PBAS) via this link:  
<http://bit.ly/PBadmission>

For International  
/Brunei Government In-  
Service Scheme (LDP)  
Applicants

1

Complete your application by going to Politeknik Brunei Admission  
System (PBAS) via this link: <http://bit.ly/PBadmission>

Application Duration:

10 AUGUST 2020, AFTER 8.30AM UNTIL 31 AUGUST 2020, BEFORE 4.30PM

Politeknik Brunei, Block 2E,  
Ong Sum Ping Condominium, BSB  
[www.pb.edu.bn](http://www.pb.edu.bn) | [admission@pb.edu.bn](mailto:admission@pb.edu.bn)

More information on programme entry requirements,  
application checklist & FAQ can be obtainable by  
scanning this QR code or by going to this link:

<http://bit.ly/PBadmission>



## ▶ FOR ANY ENQUIRIES:

<b>Email</b>	<a href="mailto:admission@pb.edu.bn">admission@pb.edu.bn</a>
<b>Phone Number</b>	+673 2234451 +673 2234466 ext. 277
<b>Our Office</b>	Registrar & Secretary Office Unit 11.04, Level 11, Block 2E, Ong Sum Ping Condominium (Main Campus)
<b>Operating Hours</b>	Mon – Thurs & Sat : 8.30 am – 12.00pm   2pm – 4pm