

# Level 5 Diploma in Mechanical Engineering

The general aim of the programme is to provide training of the higher technician/ para professional personnel for deployment in the Mechanical Engineering industry in Brunei Darussalam.

The Objectives of the programme are to produce graduates who are able to:

- Practise engineering in fields of design, research, development, testing, and manufacturing through the application of fundamental knowledge, skills, and tools of mechanical engineering;
- Enhance their skills through education, training and professional development;
- Able to work independently as well as communicate effectively with others within the Engineering profession.
- Progress to degrees or certificate programmes in engineering, business, and other professionally related fields.

## Entry Requirement

Admission to Politeknik Brunei programmes must satisfy the Minimum Entry Requirement of each programme. For reference, visit PB Website: [http://www.pb.edu.bn/SiteCollectionDocuments/ER\\_2019\\_V3.pdf](http://www.pb.edu.bn/SiteCollectionDocuments/ER_2019_V3.pdf) or scan the QR Code below:



## Career & Progression

Possible career paths such as in both oil and gas industry and government services as a mechanical plant operator and technician, involve in maintenance services, automotive and manufacturing industry and other relevant areas.

Progression to degrees in Mechanical Engineering, Mechatronics Engineering, and in other related areas at local or international universities. (\*Subject to CGPA attained)

## Testimonial

*“The programme was challenging but with realistic expectations, I have learned to prioritise my work and manage my time that allowed me to become efficient in the classroom. The programme has provided me with wide-ranging knowledge and a strong background in mechanical engineering, as well as a unique blend of knowledge in other engineering disciplines i.e. Electrical, Civil and Automotive.*

*The course content was interesting, especially during practical activities hands-on learning. There were many opportunities to get involved with projects and leadership activities in engineering and these opportunities have enhanced my knowledge greatly. The faculty and staff are all dedicated to student success and innovation, making Politeknik Brunei and the mechanical engineering department an exciting place to learn.*

*I had the opportunity to gain invaluable experiences during my 6 months internship programme where was also able to gain new friends and actual work experience, and consequently, offered a job at the end of the internship programme.”*

**Nurul Ramizah Ramlee**

2018 Graduate - Diploma in Mechanical Engineering  
Politeknik Brunei 4th Convocation

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Programme Structure	
No	Module Title
1.	Health, Safety, Security & Environment
2.	Introduction to Mechanical Engineering
3.	Pengajian Melayu Islam Beraja
4.	Pendidikan Islam
5.	Mathematics for Engineering 1
6.	Communication Skills for Engineering 1
7.	Engineering Mathematics 2
8.	Engineering Drawings 1(Technical Drawing)
9.	Engineering Mechanics 1
10.	Elements of Engineering Plant
11.	Manufacturing Processes 1
12.	Communication Skills for Engineering 2
13.	Properties of Engineering Materials
14.	Engineering Drawing 2 (AutoCAD)
15.	Engineering Mechanics 2
16.	Manufacturing Processes 2
17.	Electrical Principles
18.	Entrepreneurship
19.	Engineering Thermodynamics 1
20.	Mechanical Engineering Design
21.	Fluid Mechanics
22.	Manufacturing Engineering
23.	Engineering Management
24.	Final Year Project
25.	Engineering Thermodynamics 2
26.	OPTION:
27.	a) Design Option: 1. Mechanical Engineering Design 2 2. Computer Aided Drafting & Design OR b) Maintenance Option: 1. Maintenance Engineering 2. Air Conditioning Plant
28.	Computer Programming
29.	Final Year Project
30.	Internship
31.	Enrichment

Programme Information	
Level 5 Diploma Equivalence	Higher National Diploma
Duration of Study	3 Years (6 Semesters)
Commencement of 2019/2020 Academic Year	July 2019
Campus Location	School of Science & Engineering, Lumut
No of Modules	31 modules (92 Credit Value)



## GET IN TOUCH WITH US

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