

Level 5 Diploma in Telecommunications and Systems Engineering

This diploma programme provides advanced education to develop knowledge and expertise in the engineering of telecommunication network and systems associated with all aspects of voice and data communication systems.

It is a dynamic and rapidly developing field as a result of today's reliance on the Internet, cellphones, broadband, wireless networks, wired and optical transmission systems, broadcasting, satellite applications as well as some aspects of computer programming.

The aims of Telecommunications and Systems Engineering are to:

- provide students with opportunities to gain a thorough knowledge of current practice in the areas of Electronic Communication, and to acquire specialised knowledge in areas relevant to the engineering community in Brunei Darussalam;
- develop students' understanding of the fundamental principles of engineering, which will enable them to respond positively to the demands created by future changes in technology;
- offer students intellectual and social challenges to promote development of skills and personal qualities essential to the working world;
- build a close relationship with engineering organisations, and to produce technician engineers of the right caliber.

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 or scan the QR

Code below:



Career & Progression

Telecommunications engineering provides career opportunities in telecommunication industry and government services as Telecommunication and Systems Operator or Technician, involve in maintenance services, IT related services, networking technologies, communication services and other relevant areas.

Graduates may pursue their studies in Bachelor's degree in Communications and Computer Engineering, and in other related areas at local or international universities. (*Subject to CGPA attained)

Testimonial

“This programme offers a unique and great opportunity to the students in furthering their studies. My first thought was that it was a programme that focuses more on signals, radios and waves, but it turns out to be much more complex than that. What this programme also offers that other programmes do not, is one year of working experience in the Telecommunication Industries (DST and TelBru). That is why this programme is so unique. That one year working experience is precious and I have gained so much knowledge from it. That being said, my journey in this programme has been productive and challenging; teaching me to be mentally strong, persevere and determined. I can be successful not only in school, but also in the industries. Finally, something I always live by - remember to study smart, not study hard.”

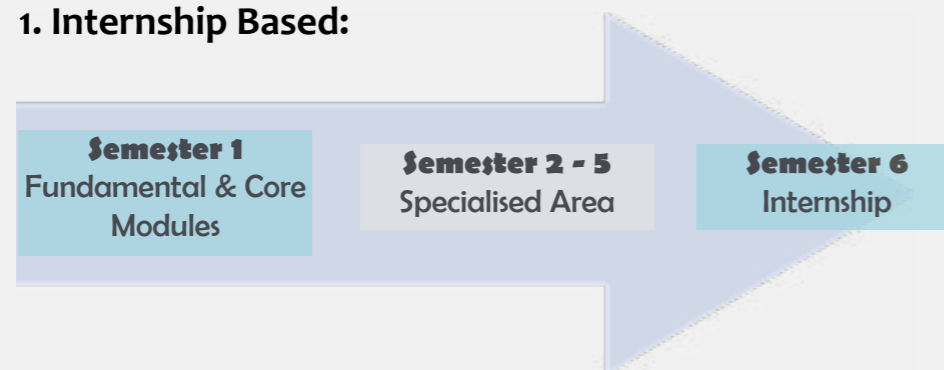
Mohammad Mizwar Bin Mohammad

2018 Graduate - Diploma in Telecommunications and Systems Engineering
Politeknik Brunei 4th Convocation

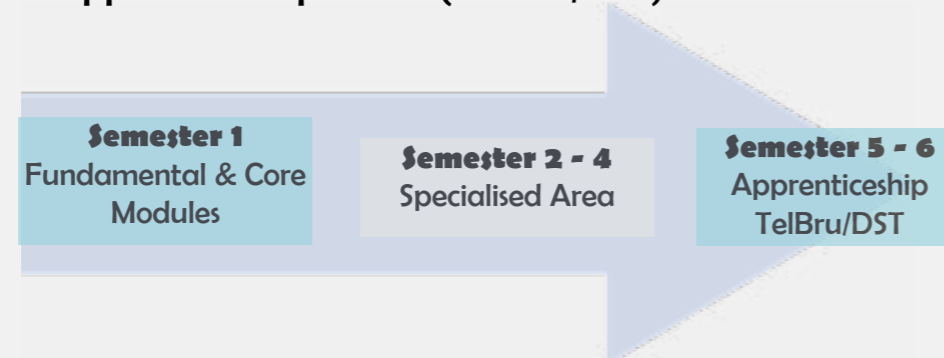
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Programme Structure	
Level 5 Diploma Equivalence	Higher National Diploma
Duration of Study	3 Years (6 Semesters)
Commencement of 2019/2020 Academic Year	July 2019
Campus Location	School of Science & Engineering, Lumut
No of Modules	Total: 90 Credit Value Internship Based: 27 Modules Apprenticeship Based (TelBru): 26 Modules Apprenticeship Based (DST): 30 Modules

1. Internship Based:



2. Apprenticeship Based (TelBru /DST)



No.	Module Title
1.	Health, Safety , Security and Environment
2.	Engineering Mathematics 1
3.	Communication Skills for Engineering 1
4.	Pengajian Melayu Islam Beraja
5.	Pendidikan Islam
6.	Introduction to Communication and Systems Engineering
7.	Engineering Mathematics 2
8.	Communication Skills for Engineering 2
9.	Electrical and Electronic Principles 1 (Telecomm)
10.	Workshop Skills
11.	Communication Systems
12.	Entrepreneurship
13.	Digital Electronics (Telecomm)
14.	Communication Electronics
15.	Electrical and Electronic Principles 2
16.	Computer Programming
17.	Computer Networks
18.	Microwave Systems
19.	Data Communications
20.	Network Application Programming
21.	Fibre Optics Communication
22.	Enrichment
INTERNSHIP BASED ¹	
1.	Microprocessor and Microcontroller Applications
2.	Programmable Logic Controller (PLC)
3.	Mobile and Satellite Communication Systems
4.	Final Project
5.	internship
APPRENTICESHIP BASED AT TELBRU ²	
1.	Access Network
2.	Telephony and Vas
3.	Information Technology
4.	Final Project (TelBru)
APPRENTICESHIP BASED AT DST ²	
1.	Data Center, Network Services
2.	Data Center, Application Infrastructure
3.	Corporate Core, Network Infrastructure
4.	IP Core, Network Infrastructure
5.	Radio Access Network – (DST)
6.	Electrical & Radio Base Station Equipment Installation and Maintenance – (DST)
7.	Fibre Optic Cable Installation
8.	Final Project (DST)

GET IN TOUCH WITH US



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How to apply?
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