

# ENGINEERING EDUCATION BRUNEI DARUSSALAM

## ACKNOWLEDGMENT

PUJA BRUNEI

UTB

UBD

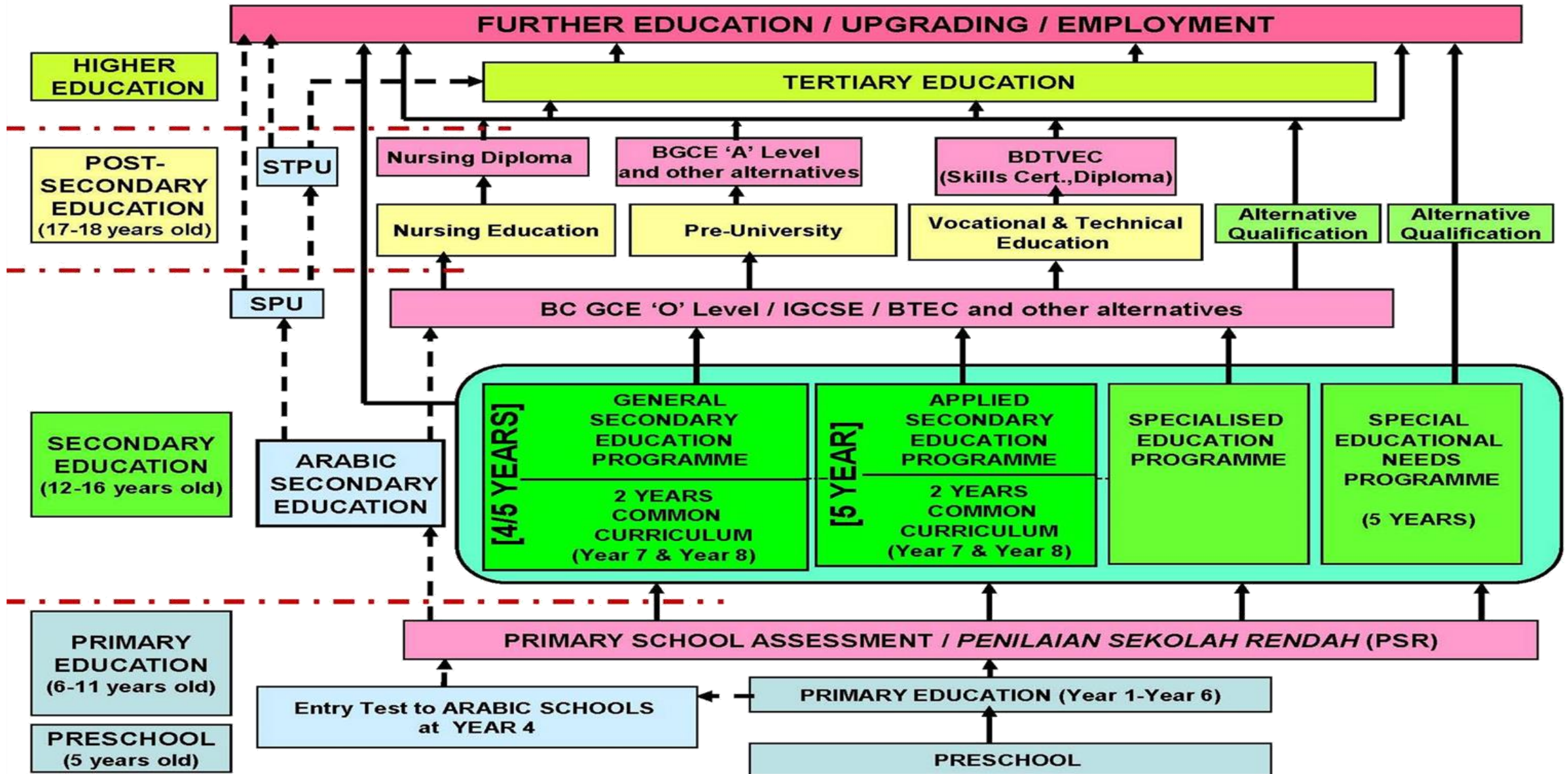
PB

IBTE

# Engineering Education in Brunei Darussalam

- Introduction
- Brunei Darussalam National Qualification Framework (BDNQF)
- Engineering Education @ Institute of Brunei Technical Education (IBTE)
- Engineering Education @ Politeknik Brunei (PB)
- Engineering Education @ University Technology Brunei (UTB)
- Engineering Education @ University Brunei Darussalam (UTB)
- Conclusion

# SPN21 EDUCATION STRUCTURE



BDQF Levels	Schools Sector Qualifications	Technical and Vocational Education Sector Qualification	Higher Education Sector Qualifications
8			Doctoral Degree
7			<ul style="list-style-type: none"> <li>Master's Degree</li> <li>Post Graduate Diploma</li> <li>Post Graduate Certificate</li> </ul>
6			Bachelor's Degree
5		<ul style="list-style-type: none"> <li>3 yrs Diploma (Higher National Diploma - HND)</li> </ul>	<ul style="list-style-type: none"> <li>Foundation Degree</li> <li>3 yrs Diploma (Higher National Diploma - HND)</li> </ul>
4	<ul style="list-style-type: none"> <li>GCE "A" Level</li> <li>IGCSE "A" Level</li> <li>IB Diploma</li> <li>Sijil Tinggi Pengajian Ugama (STPU)</li> </ul>	<ul style="list-style-type: none"> <li>Diploma (2 years)</li> <li>Higher National Technical Education Certification (HNTec)</li> </ul>	
3	<ul style="list-style-type: none"> <li>GCE "O" Level (Grades A-C)</li> <li>IGCSE and GCSE "O" Level (Grade A* - C)</li> <li>SPU (Grade A-C)</li> <li>BTEC Level 2</li> <li>Diploma</li> </ul>	<ul style="list-style-type: none"> <li>Skills Certificate 3 (SC3)</li> <li>National Technical Education Certificate (NTec)</li> </ul>	
2	<ul style="list-style-type: none"> <li>GCE "O" Level (Grade D-E)</li> <li>IGCSE "O" Level (Grade D-E)</li> <li>SPU (Grades D)</li> <li>BTEC Level 2 Extended Certificate</li> </ul>	<ul style="list-style-type: none"> <li>Skills Certificate 2 (SC2)</li> <li>Industrial Skills Qualifications (ISQ)</li> </ul>	
1	<ul style="list-style-type: none"> <li>BTEC Level Introductory Certificate</li> </ul>	<ul style="list-style-type: none"> <li>Skills Certificate 1 (SC1)</li> </ul>	

# MOE STRATEGIC FOCUS AREAS



QUALITY EDUCATION TOWARDS A DEVELOPED, PEACEFUL AND PROSPEROUS NATION



Reduce Unemployment Rate By 80%



Top 50 in TIMSS and PISA



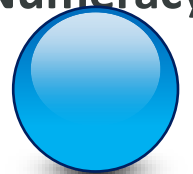
Improve Brunei Rank In GCI



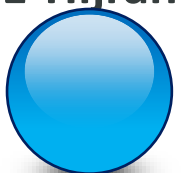
Employer Satisfaction

## 7 GRAND INITIATIVES

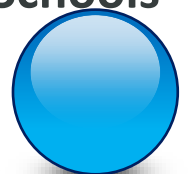
Literacy and Numeracy



E-Hijrah



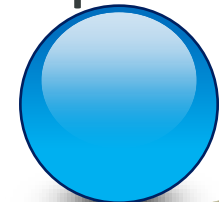
Model Schools



Teachers Quality and Professionalism



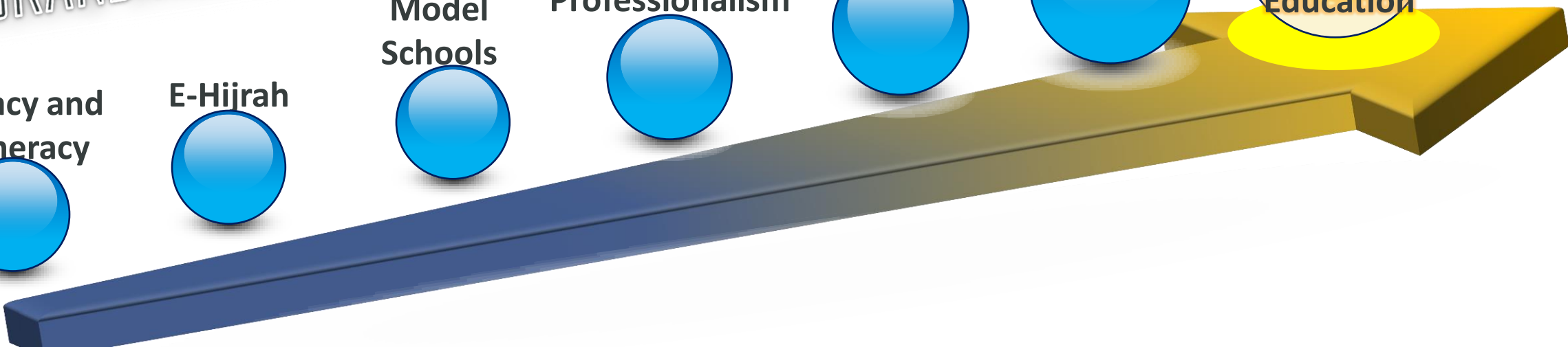
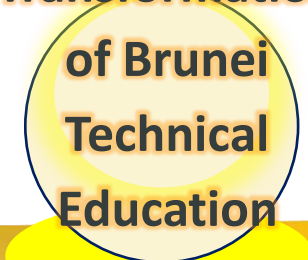
Talent Pipeline



Leadership Development



Transformation of Brunei Technical Education



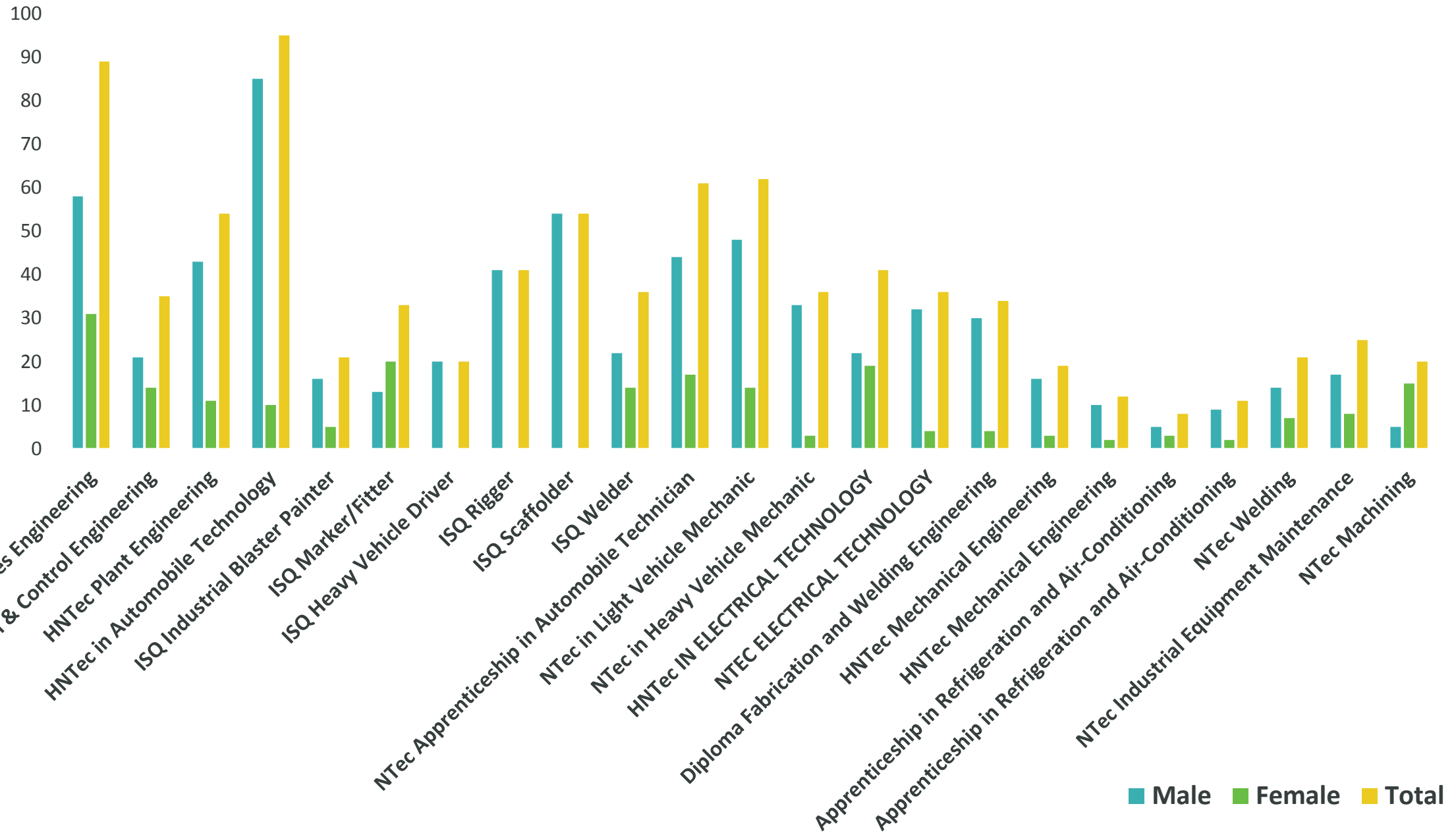
# Summary Engineering Education in Brunei

	Level 4 and below	Level 5 Diploma (HND)	Level 6,7& 8 BEng, MSc & PhD
IBTE	M: 658 F: 206		
PB		M: 274 F: 250	
UTB		M: 248 F: 301	M: 378 F: 177
UBD			M: 58 F: 70

Engineering Curriculum design – PAC members, EICF

APEN –JAIF MULTIVERSITY :“ To develop an effective curriculum for Engineering Education

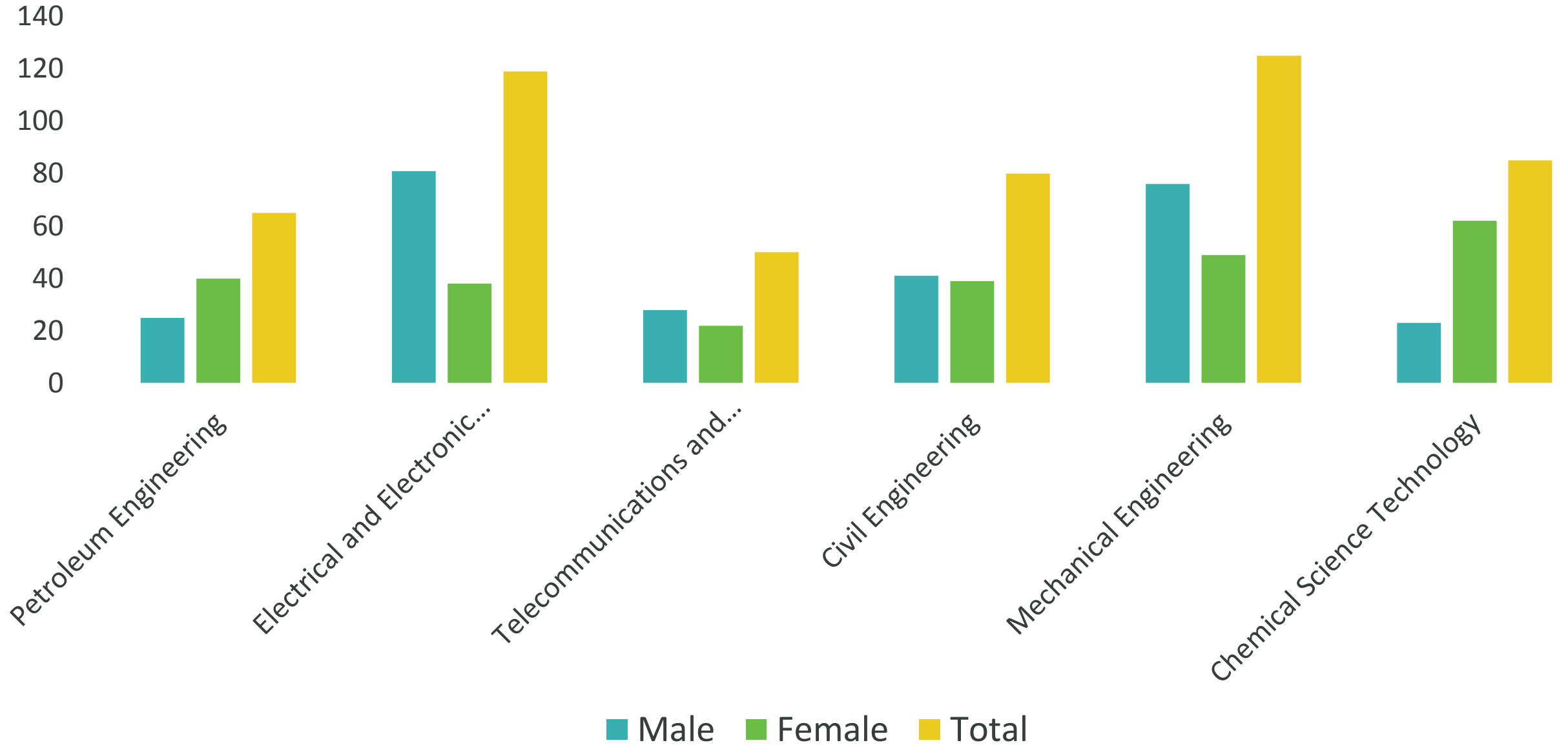
# Engineering Education @ Institute of Brunei Technical Education (IBTE)





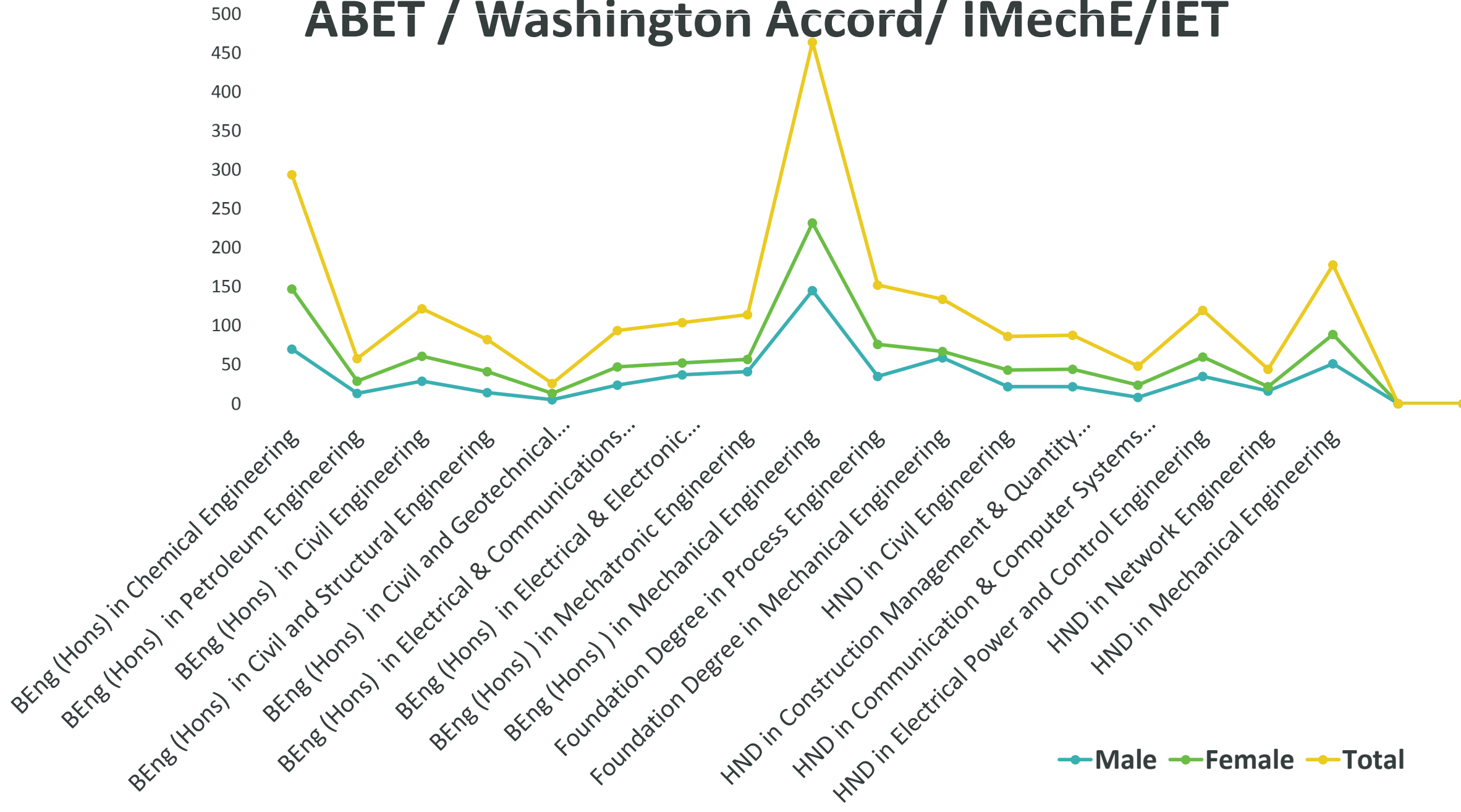
# Politeknik Brunei (PB)

## ISO 9001:2015/Sydney Accord/IET





# University Technology Brunei (UTB) ABET / Washington Accord/ IMechE/IET



# University Brunei Darussalam (UBD) – Washington Accord

FIT-UBD		2012	2013	2014	2015	2016	Total
B Eng. (Hons) Chemical and Process Engineering	Male	1	3	4	7	3	18
	Female	12	10	13	7	8	50
E Eng. (Hons) Systems Engineering	Male	-	4	19	5	12	40
	Female	-	4	7	5	4	20
Total		13	21	43	24	27	128



**31st OCTOBER 2016**

8.00AM - 15.00 PM

**Indera Pahlawan Hall,  
 Ministry of Development**

# WASTEWATER MANAGEMENT

- Part 2



Graduated with a Bachelor of Applied Science in Quantity Surveying from the Western Australian Institute of Technology (now Curtin University of Technology), Perth, Western Australia.

Experience for more than 30 years in quantity surveying and project management.

Involved in several major wastewater management projects:

- Malaysia namely the Jelutong Sewage Treatment Plant (1.2mil PE) project in Penang.
- the underground Pantai 2 Sewage Treatment Plant (1.425mil PE) project in Kuala Lumpur.

Speaker:  
**ANI JASMANI**

Sewage Conveyance System (105km) and Langat Sewage Treatment Plant (100 PE) project in Cheras, Selangor where each project utilises different water treatment technologies.

Involved in the 250MLD DAF water treatment project in Bertam, Perak.

He has served as the Deputy Chair of the Quantity Surveying Division, Royal Institution of Surveyors Malaysia (2009-2014) and board member of the Board of Quantity Surveyors Malaysia (2010-2015). He is also a member of the Malaysian Water Association.

The topic on wastewater management has become more crucial in this era of rapid development. Construction professionals need to equip themselves with the necessary knowledge in the field of wastewater management. Understanding the basic knowledge on water cycle, the terminologies and technical jargons, the components in a sewage conveyance system and various sewage treatment process technologies, the construction methodology, green technology associated with wastewater management, and the treatment and use of the residual biosolids from a treatment plant are



## PROGRAM:

- 8:00 REGISTRATION
- 8:30 Recital of Surah Al Fatihah  
Welcoming Remarks
- 8:45 Session 1 : Overview of Wastewater Management
- 9:30 Session 2 : Sewage Conveyance System – Sewer Pipes and Appurtenances
- 10:15 TEA BREAK
- 11:00 Session 3 : Sewage Conveyance System – Network Pump Station
- 11:30 Session 4 : Economics of Sewage – Conveyance

- PART 2 DEVELOPMENT OF INDUSTRIAL ESTATE BY JURONG TOWN CORPORATION
- CPD TALK : DISPUTE RESOLUTION IN CONSTRUCTION INDUSTRY
- PUJA (Brunei) Annual General Meeting Dinner 2016
- PARADIGM SHIFT FOR PROFESSIONALS: Technical Introduction of LSL ROOFING and STRUCTURE SERVICES
- Overview of Contract Administration and Design & Build Contract
- Introduction of Coated Steel & BlueScope's Case Studies
- Sabah Road Day 2016
- UPDATED! Effective Physical Asset Management & Maintenance
- BUILDEX Brunei 2016
- KT&G to Host 2016 Design Workshop

REGISTRATION FEE: