



قوليتيكنيك بروني
POLITEKNIK BRUNEI

**SCHOOL OF SCIENCE
& ENGINEERING**

Level 5 Diploma in Architecture

"The programme is tailored made for the Bruneian and International students who have the requisite skills in architecture that very well fits to industry's requirements made through collaboration with industries. This programme is also developed to inspire student's growth into a skilled and intellectual architectural designer and technologist."

Career Opportunities

Architectural Draughtsman, Architectural Technician, Architectural Technologist, Landscape Architect, CAD Technician, Clerk of Work, Urban Planner, Graphic Designer, BIM Manager, Construction Manager, Interior Designer, Project Manager, Site Manager, Artist, Industrial Designer, Production Designer, Photographer, Sole Proprietor, Consultant

Further Studies Opportunities

Bachelor degree in Architectural and Building Services related area such as Architecture, Architectural Design and Technology, Interior Design, Town and Country Planning, Urban Planning and Development, Product Design, Graphic Design, Illustration, Arts, Civil Engineering, Building Services, Quantity Surveyor

Programme Duration: 2.5 Years Full time

Year 1, Semester 1	
Module Title	Module Type
Communication Skills	Core
Mathematics for Interior Design and Architecture	Core
Health, Safety, Security and Environment	Core
History and Theory of Architecture	Essential
Introduction to Architecture FSO (Project: Form, Space and Order)	Essential
Year 1, Semester 2	
Module Title	Module Type
Pengajian Melayu Islam Beraja	Core
Pendidikan Islam	Core
Architectural Design Studio I (Project: Residential)	Essential
Architectural Draughting 1 (AutoCAD)	Essential
Material and Architectural Technology 1	Essential
Year 2, Semester 3	
Module Title	Module Type
Entrepreneurship Basic	Core
Architectural Design Studio II (Project: Commercial)	Essential
Environmental Science	Essential
Architectural Visualization 1	Essential
Architectural Draughting 2 (REVIT ARCHITECTURE)	Essential
Year 2, Semester 4	
Module Title	Module Type
Internship	Core
Year 2.5, Semester 5	
Module Title	Module Type
Final Year Project (Architectural Design Studio III)	Core
Sustainable Design in Landscape and Architecture	Essential
Material and Architectural Technology 2	Essential
Architectural Visualization 2	Essential
Throughout 2.5 years programme	
Enrichment	Core



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Level 5 Diploma in Interior Design

"The aim of this programme is to provide students with a comprehensive education and training in the field of interior design. The programme typically covers various aspects of design, architecture, aesthetics, space planning, furniture design, colour theory, materials, and more. The overarching goal is to equip students with the knowledge, skills, and creative mindset required to create functional, aesthetically pleasing, and safe interior spaces."

Career Opportunities

Residential Interior Designer, Commercial Interior Designer, Hospitality and Restaurant Designer, Retail Space Designer, Set Designer for Film/TV, Sustainable Design Consultant, Furniture Designer, Design Educator, Architectural Draughtsman, Landscape designer, Architectural Technician, CAD technician, Consultant, Photographer, Project Manager

Further Studies Opportunities

Bachelor degree in Architectural and designs related area such as Interior Design, Architecture, Product Design, Fashion Design, Industrial Design, Civil Engineering, Graphic Design, Quantity Surveyor, Arts, Building services, Mechanical Engineering, Urban Planning & Development

Programme Duration: 2.5 Years Full time

Year 1, Semester 1	
Module Title	Module Type
Health, Safety, Security & Environment	Core
Communication Skills	Core
Mathematics for Interior Design & Architecture	Core
Historical and Contextual Studies	Essential
Design Studio 1: Introduction to Interior Design	Essential
Year 1, Semester 2	
Module Title	Module Type
Pengajian Melayu Islam Beraja	Core
Pendidikan Islam	Core
Design Studio 2: Residential	Essential
Draughting and Detailing	Essential
Building Design Technology	Essential
Year 2, Semester 3	
Module Title	Module Type
Entrepreneurship Basics	Core
Sustainability and Environmental Psychology	Essential
Computer Aided Design: 3D Modelling & Rendering	Essential
Form and Space: Furniture & Lighting Design	Essential
Design Studio 3: Commercial	Essential
Year 2, Semester 4	
Module Title	Module Type
Final Year Project (Interior Design Research)	Core
Brunei Architecture	Essential
Building Information Modelling	Essential
Professional Practice and Specification	Essential
Year 2.5, Semester 5	
Module Title	Module Type
Internship	Core
Final Year Project (Interior Design)	Core
Throughout 2.5 years programme	
Enrichment	Core

Level 5 Diploma in Civil Engineering

"This programme is designed to equip students with the knowledge and skills required in the civil engineering industry by performing a wider range of roles and tasks at the higher technician level. Students will be equipped with a comprehensive grasp of the principles, theories, and practices underpinning civil engineering and urban infrastructure."

Career Opportunities

Civil engineering disciplines provide a wide variety of career opportunities. Other than technical and drafting positions, work activities may involve quantity survey, land survey, water supply, drainage, transport design, structural design and geotechnics. Civil engineers associate themselves with duties such as designing, management, construction, supervising and maintenance works.

Further Studies Opportunities

Bachelor degree in civil engineering or any related field such as Bachelor of Engineering in Civil Engineering, Civil and Structural Engineering, Environmental Engineering, Surveying, Construction Management, Material Science and Engineering

Programme Duration: 2.5 Years Full time

Year 1, Semester 1	
Module Title	Module Type
Health, Safety, Security and Environment	Core
Pengajian Melayu Islam Beraja	Core
Engineering Mathematics 1	Core
Communication Skills	Core
Mechanics of Solids	Essential

Year 1, Semester 2	
Module Title	Module Type
Pendidikan Islam	Core
Engineering Mathematics 2 for Civil Engineering	Core
Construction Materials and Technology	Essential
Engineering Drawings (Technical and AutoCAD)	Essential
Hydraulics	Essential

Year 2, Semester 3	
Module Title	Module Type
Entrepreneurship Basics	Core
Structural Design Analysis 1	Essential
Traffic & Highway Engineering	Essential
Soil Mechanics	Essential
Construction Management and Building Estimate	Essential

Year 2, Semester 4	
Module Title	Module Type
Final Year Project	Core
Water Supply, Sewerage & Waste Management	Essential
Structural Design Analysis 2	Essential
Hydrology & Drainage	Essential
Foundation Engineering	Essential

Year 2.5, Semester 5	
Module Title	Module Type
Internship	Core

Throughout 2.5 years programme	
Module Title	Module Type
Enrichment	Core



SCHOOL OF SCIENCE & ENGINEERING

Level 5 Diploma in Electrical Engineering

"This programme is designed to develop a comprehensive understanding of electrical power, supplemented by a solid foundation in electronics. To equip students with knowledge in electrical fundamentals, electronics, AC circuits, power systems, microcontrollers, instrumentation, and renewable energy, preparing them for diverse engineering roles and real-world applications."

Career Opportunities

Power Systems Engineer, Electronics Technician, Control Systems Technician, Renewable Energy Technician, Electrical Design Engineer, Instrumentation Technician, Project Manager, Field Service Engineer

Further Studies Opportunities

Bachelor degree in electrical engineering or any related field such as Bachelor of Engineering in Electrical Engineering, Electronics Engineering, Renewable Energy Engineering

Programme Duration: 2.5 Years Full time

Year 1, Semester 1	
Module Title	Module Type
Health, Safety, Security and Environment	Core
Pengajian Melayu Islam Beraja	Core
Communication Skills	Core
Engineering Mathematics 1	Core
Electrical Engineering Fundamentals	Essential
Analogue Electronics	Essential
Year 1, Semester 2	
Module Title	Module Type
Pendidikan Islam	Core
Engineering Mathematics 2	Core
AC Circuits	Essential
Digital Electronics	Essential
Power System 1	Specialised
Year 2, Semester 3	
Module Title	Module Type
Entrepreneurship Basics	Core
Engineering Mathematics 3	Core
Microcontroller and Application	Essential
Transducer and Instrumentation	Essential
Electrical Machine	Specialised
Electrical Installation and Technology	Specialised
Year 2, Semester 4	
Module Title	Module Type
Final Year Project	Core
Power Electronics and Drive	Specialised
Power Systems 2	Specialised
System Modelling and Control	Specialised
PLC and Automation	Specialised
Renewable Energy (Photovoltaic Technology)	Specialised
Year 2.5, Semester 5	
Module Title	Module Type
Internship	Core
Throughout 2.5 years programme	
Enrichment	Core



SCHOOL OF SCIENCE & ENGINEERING

Level 5 Diploma in Electronic & Communication Engineering

"This programme is designed to develop skills in all aspects of analog and digital circuit design, as well as communication systems and communications networks development. This programme emphasizes on the engineering principles required to analyse and solve problems related to the design and implementation of electronic and communication systems."

Career Opportunities

Electronic technician, Telecommunication support specialist, Field service technician, Network technician, Electronic Assembler, Computer Programmers, Systems technician, Broadcast technician, Automation Technician, Technical support specialist, Network Operation Centre technician, Field operations Technician, IT Operations Technician

Further Studies Opportunities

Successful graduates in this Diploma programme may pursue further studies in the related field such as: Bachelor of Engineering in the field of Electronic and Communication Engineering, Electrical and Electronic Engineering, and Systems Engineering, Computer Networking, or Information and Communication Systems Engineering

Programme Duration: 2.5 Years Full time

Year 1, Semester 1	
Module Title	Module Type
Health, Safety, Security and Environment	Core
Pengajian Melayu Islam Beraja	Core
Communication Skills	Core
Engineering Mathematics 1	Core
Electrical Circuit Principles	Essential
Electrical Laboratory Skills	Essential
Year 1, Semester 2	
Module Title	Module Type
Pendidikan Islam	Core
Engineering Mathematics 2	Core
Digital Electronics (Telecomm)	Essential
Electronic Devices and Circuits	Essential
Communication Systems	Specialised
Year 2, Semester 3	
Module Title	Module Type
Entrepreneurship Basics	Core
Computer Programming	Essential
Data Communications	Specialised
Communication Electronics	Specialised
Fibre Optics Communication	Specialised
Year 2, Semester 4	
Module Title	Module Type
Final Year Project	Core
IoT Fundamentals	Essential
Microwave Systems	Specialised
Network Application Programming	Specialised
Mobile and Satellite Communication Systems	Specialised
Year 2.5, Semester 5	
Module Title	Module Type
Internship	Core
Throughout 2.5 years programme	
Enrichment	Core



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Level 5 Diploma in Mechanical Engineering

"This programme is designed to develop skilled and knowledgeable graduates in the area of mechanical engineering. The programme is developed with the industry's experts ensuring the relevant knowledge, skills and competencies are incorporated into the modules which includes manufacturing, mechanisms and design."

Career Opportunities

Appliances Engineer, Communication Engineer, Construction Engineer, Engineer Consultant, Instrumentation & Control Engineer, Design Engineer, Maintenance Engineer, Manufacturing Engineer, Mechatronic Engineer, Medical Engineer, Operation Engineer, Project Engineer, Research & Development Engineer, Project Planner, Project Manager, Vocational Technical Trainer, Technician, Site Engineer, Quality Control Engineer, Safety supervisor, Supervisor, Foreman, Auditor, Welder, Draughtsman

Further Studies Opportunities

Successful graduates in this Diploma programme may pursue further studies in the related field such as:
Bachelor of Engineering in the field of Mechanical Engineering, General Engineering, Chemical and Process Engineering, Mechatronics Engineering, Product Design

Programme Duration: 2.5 Years Full time

Year 1, Semester 1	
Module Title	Module Type
Health, Safety, Security & Environment	Core
Pengajian Melayu Islam Beraja	Core
Communication Skills	Core
Mathematics for Engineering 1	Core
Engineering Mechanics (Statics)	Essential
Engineering Management	Essential
Year 1, Semester 2	
Module Title	Module Type
Pendidikan Islam	Core
Engineering Drawing	Core
Engineering Mathematics 2	Essential
Electrical Principles	Essential
Engineering Measurements	Essential
Year 2, Semester 3	
Module Title	Module Type
Engineering Materials	Essential
Manufacturing and Fabrication Processes	Essential
Engineering Mechanics (Dynamics)	Essential
Mechanical Equipment Operation and Maintenance	Essential
Entrepreneurship Basics	Essential
Year 2, Semester 4	
Module Title	Module Type
Final Year Project	Core
Engineering Thermodynamics	Essential
Mechanical Engineering Design	Essential
Engineering Mechanics (Fluid)	Essential
Maintenance Engineering and Planning	Essential
Year 2.5, Semester 5	
Module Title	Module Type
Internship	Core
Throughout 2.5 years programme	
Enrichment	Core

