

CERTIFICATE IV TERTIARY PREPARATION PROGRAM (TPP)

Course planner for Science (Engineering Studies)

The Certificate IV TPP is an accredited and nationally recognised pre-university level course equivalent to Australian Year 12 or a Foundation Program. It is designed to prepare students for university-level study in areas such as civil engineering, computer systems engineering, mechanical engineering and electrical engineering to name a few. This course is currently taught on ECU's Mt Lawley campus. From June 2015 this course will be taught on ECU's state-of-the art Joondalup campus.

The course consists of 8 modules of study and can be completed over 2 or 3 trimesters. Students who complete the Certificate IV TPP at PIBT will qualify for entry into the PIBT Diploma program. A minimum of 50 percent pass in all 8 modules is required for progression to the Diploma course.

MODULE DESCRIPTORS

BUS104A – Mathematics (Core)

This is a mathematics module designed for students who do not wish to study mathematics or physical sciences at a tertiary level but require a general mathematical background.

BUS105A – Statistics

This module is concerned with developing statistical concepts, specifically the skills/knowledge required to collect/present numerical data and the analysis and interpretation of this numerical data. Sources of data will include business, sport medicine, physical science, biological science and social science.

BUS107A – Introduction to Computing (Core)

This module is designed to provide students with understanding of the main applications of computers, and an appreciation of the role information processing plays. Students will learn basic skills in utilising personal productivity tools such as Microsoft Word, Excel, Access, PowerPoint and how the Internet and World Wide Web can be used for locating, organising, presenting and transporting information.

COM101A – Programming

This module enables students to acquire both an introductory knowledge of the theoretical concepts in programming and fundamental practical skills in writing programs.

COM102A – Introduction to Systems Analysis

This module provides an introduction to the basic theory and practical application of the concepts and modelling techniques used in the analysis phase of developing business software. The underlying framework utilised in this module is the Systems Development Life Cycle.



Certificate IV TPP (Engineering Studies) continued

COM201A – Communication Skills II (Core)

This module assists students in their ability to successfully interact, participate and communicate effectively in an academic environment. Students will learn basic study skills such as time management, listening and note taking. Emphasis will be placed on how to write and structure paragraphs and essays.

COM202A – Communication Skills III (Core)

This module assists students in developing knowledge and communication skills that will allow them to participate effectively in a range of personal and professional contexts.

MTH002A – Advanced Mathematics (Core)

This module is specifically for students who wish to study mathematics and related courses at a tertiary level. Successful completion of this module indicates that students have obtained a good understanding of calculus so that further studies in calculus and related topics can be undertaken.

CHE001A – Chemistry

This module introduces the study of matter and its interactions, providing a link with other branches of natural science. The module assists students to appreciate the impact of chemical knowledge and technology on

society. Module is designed for those who wish to study physical sciences, health sciences and engineering at a tertiary level.

PHY001A – Physics (Core)

This unit is designed to expose students to the basic principles of Physics, and their applications, within a wide variety of contexts. Physics principles and methods applicable to Heat, Motion, Electricity, Wave Motion and Optics are covered in this unit.

Australian
Qualifications
Framework



NTIS: 10479NAT

Important information for students	PIBT First trimester	Entry into PIBT Diploma	
<p>All students must complete 8 modules in total. Engineering students must complete:</p> <ul style="list-style-type: none"> BUS107A – Introduction to Computing COM201A – Communication Skills II COM202A – Communication Skills III BUS104A – Mathematics MTH002A – Advanced Maths PHY001A – Physics <p>Plus <u>two</u> stream modules from:</p> <ul style="list-style-type: none"> BUS105A – Statistics COM101A – Programming COM102A – Intro to Systems Analysis CHE001A – Chemistry 	COM201A Communication Skills II	Diploma of Science (Engineering Studies)	
	BUS107A Introduction to Computing	<p>Methods of assessment at PIBT</p> <p>Methods of assessment may differ depending on the course and subjects you choose. Most subjects will be assessed through a combination of written examinations and assignments, essays, presentations, seminars and tutorial participation. Some coursework will include group-based projects and practical activities. At the beginning of each unit, students are given an outline that includes due dates for the completion of assignments. Students who fail to meet these submission deadlines may be penalised even though the work was completed. Attending all classes is essential in order to be successful at PIBT.</p>	
	BUS104A Mathematics		
	Plus <u>one</u> stream module		
	PIBT Second trimester		
	COM202A Communication Skills III		
	MTH002A Advanced Mathematics		
	PHY001A Physics		
Plus <u>one</u> stream module			
International students must study 3 or 4 units per trimester.			

PIBT reserves the right to cancel classes due to insufficient demand. Timetable clashes may be unavoidable. The order of units selected in the first and second trimester are recommendations except where a pre-requisite applies. Flyers are current as of 23 January 2015.

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Perth Institute of Business and Technology
Edith Cowan University
Building 10 Mt Lawley Campus
2 Bradford Street
Mt Lawley WA 6050 Australia

T +61 8 6279 1100
F +61 8 6279 1111
E info@pibt.wa.edu.au
PIBT is part of the Navitas Group
CRICOS provider code: PIBT 01312J