

# BACCALAUREUS TECHNOLOGIAE: PROFESSIONAL PRACTICE IN INFORMATION TECHNOLOGY

Qualification code: BTPF03 - NQF Level 7

Campus where offered: Soshanguve South Campus

Please note that a moratorium was placed on new intakes as from 2012 until further notice.

## REMARKS

- a. *Admission requirement(s):*  
Relevant IT industry experience with recognition of prior learning (RPL) and a minimum of seven years' experience.
- b. *Selection criteria:*  
Candidates should submit a portfolio of relevant experience and qualifications successfully completed, in a set format, to an admission panel. The final decision on admission is based on a combined assessment of the submitted portfolio and a formal assessment of the student to determine the skills and knowledge levels he or she acquired through the relevant studies and industry experience. The outcome of the assessment should be deemed equivalent to at least an M+3 in the computer systems and information technology field.
- c. *Minimum duration:*  
One year.
- d. *Presentation:*  
Day classes offered on Saturdays, offered over a period of one and a half years (please see Rule 8.4.1 of the Students' Rules and Regulations for information on duration). If fewer than 15 students are enrolled for a specific subject, the Department may decide not to offer the subject.
- e. *Intake for the qualification:*  
January and July.
- f. *Exclusion and readmission:*  
See Chapter 2 of Students' Rules and Regulations.
- g. *Recognition of Prior Learning (RPL), equivalence and status:*  
See Chapter 30 of Students' Rules and Regulations.
- h. *Re-registration:*  
A student may re-register for the subject Project IV only with the permission of the Head of the Department. The purpose of the re-registration is to provide students with an opportunity to complete the project only, and not to re-do it, should they fail the subject.
- i. *Subject credits:*  
Subject credits are shown in brackets after each subject.

## CURRICULUM

### FIRST OR SECOND SEMESTER

CODE	SUBJECT	CREDIT
BUA401T	Business Analysis IV	(0,100)
PAA401T	Personal Attributes/Reflection on Practices IV	(0,100)
PAJ411L	Principles of Research IV	(0,100)
PPJ400T	Professional Practice Project IV (year subject)	(0,200)



PPJ401R	Professional Practice Project IV (re-registration)	(0,000)
PRZ401T	Professional Systems Engineering IV	(0,100)
SBA401T	Strategic Business Analysis IV	(0,200)

**plus two of the following subjects. All subjects are offered as determined by the Head of the Department:**

PAB401T	Principles of Enquiry and the Future of IT IV	(0,100)
SIS401T	Software-Intensive Systems Project Management IV	(0,100)
TKM401T	Task Management IV	(0,100)
TOTAL CREDITS FOR THE QUALIFICATION:		<b>1,000</b>

## SUBJECT INFORMATION (OVERVIEW OF SYLLABUS)

The syllabus content is subject to change to accommodate industry changes. Please note that a more detailed syllabus is available at the Department or in the study guide that is applicable to a particular subject. On 23 August 2017, the syllabus content was defined as follows:

### B

#### **BUSINESS ANALYSIS IV (BUA401T) 1 X 3-HOUR PAPER** (Subject custodian: Department of Informatics)

Business analysis is critical in identifying the business needs of end users and other stakeholders to determine the appropriate solution to a business problem. Focus is primarily on business analysis, and discusses how to obtain success in business analysis. Six business analysis knowledge areas are discussed in detail. On successful completion of this subject, the student will be able to: specify and model requirements for an IT business solution, investigate business problem or opportunity within an organisation, analyse and document solution requirements for an IT organisation and support project manager throughout solution development, implementation and testing to ensure that requirements are met. (Tuition time: ± 54 hours)

### P

#### **PERSONAL ATTRIBUTES/REFLECTION ON PRACTICES IV (PAA401T) 1 X 3-HOUR PAPER** (Subject custodian: Department of Computer Science)

Attributes, skills and tools for delivering service in network environments. (Total tuition time: ± 40 hours)

#### **PRINCIPLES OF ENQUIRY AND THE FUTURE OF IT IV (PAB401T) 1 X 3-HOUR PAPER** (Subject custodian: Department of Computer Science)

Analysing the future possibilities of IT and how the principles of enquiry can operate in such an environment. (Total tuition time: ± 40 hours)

#### **PRINCIPLES OF RESEARCH IV (PAJ411L) CONTINUOUS ASSESSMENT** (Subject custodian: Department of Computer Science)

This subject prepares students to obtain the necessary skills in doing proper research to deliver a proper researched report. The subject also looks at the basics of paradigms, methodologies, and techniques of research in the behavioural sciences, and their application in information technology. On completion of the subject, students will be able to apply the basic paradigms, methodologies and techniques; apply different methodologies in different scenarios; recommend which data collection technique is necessary; apply correct research methods in the ICT environment, and apply the appropriate tools for collecting data in the ICT environment. Project topics and research questions in line with the Department niche area. (Total tuition time: ± 54 hours)



**PROFESSIONAL PRACTICE PROJECT IV (PPJ400T, PPJ401R)****CONTINUOUS ASSESSMENT****(Subject custodian: Department of Computer Science)**

Managing the development of information systems and the specification and design of network systems. (Total tuition time: ± 80 hours)

**PROFESSIONAL SYSTEMS ENGINEERING IV (PRZ401T)****1 X 3-HOUR PAPER****(Subject custodian: Department of Computer Science)**

Managing the development of information systems. Specification and design of networks. (Total tuition time: ± 40 hours)

**S****SOFTWARE-INTENSIVE SYSTEMS PROJECT MANAGEMENT IV (SIS401T)****1 X 3-HOUR PAPER****(Subject custodian: Department of Computer Science)**

Investigating how the different systems can support management. (Total tuition time: ± 60 hours)

**STRATEGIC BUSINESS ANALYSIS IV (SBA401T)****1 X 3-HOUR PAPER****(Subject custodian: Department of Computer Science)**

Information is viewed as a strategic resource which involves the role of COI, strategic planning, aspects of ICT project management, management issues of outsourcing, ethical, and security and privacy issues. (Total tuition time: ± 40 hours)

**T****TASK MANAGEMENT IV (TKM401T)****1 X 3-HOUR PAPER****(Subject custodian: Department of Informatics)**

This subject deals with Knowledge engineering and technologies underpinning knowledge systems, such as decision support systems, group support systems, expert systems, data warehousing, data mining, document management and information searches. It also looks at the concepts, tools and technologies used to support decision making. With emphasis on DSS, BI, Data mining, Data warehousing, use of Web technologies, and Knowledge management implementation, potential and challenges. On completion of this subject, students will be able to examine the decision making process; propose the various technologies that can be implemented, and assess the potential and challenges of DSS, BI and knowledge technologies within an organisation. (Total tuition time: ± 54 hours)

