

## ADVANCED DIPLOMA IN INFORMATICS

AdvDip (Informatics) - NQF Level 7 (120 credits)

**Qualification code: ADIF20**

SAQA ID: 111463, CHE NUMBER: H/H16/E168CAN

Campus where offered:

Soshanguve South Campus

### REMARKS

*a. Admission requirement(s):*

A National Diploma: Information Technology in the field of Business Applications, **or** a Diploma in Informatics, **or** a relevant bachelor's degree, **or** an equivalent qualification at NQF Level 6 with a minimum of 360 credits.

Holders of any other equivalent South African or international qualification may also be considered, see Chapter 1 of Students' Rules and Regulations.

*b. Selection criteria:*

Admission is subject to selection. Prospective students will be evaluated based on the marks obtained in the previous qualification and/or work experience.

Acceptance is subject to available capacity according to the Student Enrolment Plan (SEP). Applicants will be informed of their status per official letter from the Office of the Registrar, alternatively, they can check their application status on the TUT website, [www.tut.ac.za](http://www.tut.ac.za).

*c. Recognition of Prior Learning (RPL), equivalence and status:*

See Chapter 30 of Students' Rules and Regulations.

*d. Intake for the qualification:*

January only.

*e. Presentation:*

Day classes offered on Saturdays over a period of two years.

*f. Minimum duration:*

A minimum of one or two years (depending on the programme offering).

*g. Exclusion and readmission:*

See Chapter 2 of Students' Rules and Regulations.

*h. Re-registration:*

A student may re-register for the module Information System Research 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 redo it, should they fail the module.

*i. Personal equipment:*

Access to a laptop or desktop computer is essential to participate in multimodal learning experiences as well as to complete assignments and projects. NSFAS students receive an allowance to acquire a laptop, and using this allowance for this purpose is critical for academic success. Students are encouraged to consult the faculty website where the minimum requirements for specific programmes are published.



## CURRICULUM

### FIRST YEAR

CODE	MODULE	NQF-L	CREDIT	PREREQUISITE MODULE(S)
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#### FIRST SEMESTER

BAA117V	Business Analysis and Application	(7)	(15)	
PIF117V	Principles of Research	(7)	(15)	

#### SECOND SEMESTER

ISR117V	Information System Research	(7)	(15)	Principles of Research
ISR117R	Information System Research (re-registration) (first-semester module, see Paragraph h)	(7)	(0)	
SIS117V	Strategic Information Systems	(7)	(15)	
TOTAL CREDITS FOR THE FIRST YEAR:			<b>60</b>	

### SECOND YEAR

CODE	MODULE	NQF-L	CREDIT	PREREQUISITE MODULE(S)
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#### FIRST SEMESTER

ITM117V	Information and Technology Management	(7)	(15)	
KWM117V	Knowledge Management	(7)	(15)	

#### SECOND SEMESTER

IAR117V	Information Systems Architecture	(7)	(15)	
ITP117V	Information Technology Project Management	(7)	(15)	
TOTAL CREDITS FOR THE SECOND YEAR:			<b>60</b>	
TOTAL CREDITS FOR THE QUALIFICATION:			<b>120</b>	

## MODULE 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 module. At time of publication, the syllabus content was defined as follows:

### B

**BUSINESS ANALYSIS AND APPLICATION (BAA117V)**  
*(Module custodian: Department of Informatics)*

**1 X 3-HOUR PAPER**

This module prepares the student to apply business system models and applications to the IT environment. It is aligned with the BABOK intermediate level. (Total notional time: 150 hours)



**I****INFORMATION AND TECHNOLOGY MANAGEMENT (ITM117V)****1 X 3-HOUR PAPER***(Module custodian: Department of Informatics)*

This module introduces the effective management of information systems with the emphasis on the interaction between strategic management and information systems. Students learn to master the principles, tools and techniques that are used in IS management solutions. Some practical implementations of different IT strategies are infused. (Total notional time: 150 hours)

**INFORMATION SYSTEM RESEARCH (ISR117V/R)****PROJECT ASSESSMENT***(Module custodian: Department of Informatics)*

The student will learn how, and when, to use quantitative and qualitative techniques to investigate different research questions. The student will practice and apply these techniques by producing research questions, conducting literature reviews, data collection, analysis and interpretation, including the use of specialist computer packages. (Total notional time: 150 hours)

**INFORMATION SYSTEMS ARCHITECTURE (IAR117V)****1 X 3-HOUR PAPER***(Module custodian: Department of Informatics)*

The student will be able to apply his/her knowledge of information systems architectural design approach for developing and managing the lifecycle of an enterprise architecture, adapting best practices such as The Open Groups Architecture Framework (TOGAF). (Total notional time: 150 hours)

**INFORMATION TECHNOLOGY PROJECT MANAGEMENT (ITP117V)****1 X 3-HOUR PAPER***(Module custodian: Department of Informatics)*

This module prepares students to apply advanced project management principles in an Information Systems environment. It is aligned with the PMBOK and the standard for Program Management guides. (Total notional time: 150 hours)

**K****KNOWLEDGE MANAGEMENT (KWM117V)****1 X 3-HOUR PAPER***(Module custodian: Department of Informatics)*

This module prepares the student to apply the concepts and principles of organisation-wide Knowledge Management (KM) deployment based on the knowledge sharing needs of an organisation. The student will be able to apply his/her knowledge of KM approaches to initiate, plan, design, and deploy KM solutions within an organisation and be able to adapt best practices in relation to Knowledge Management. (Total notional time: 150 hours)

**P****PRINCIPLES OF RESEARCH (PIF117V)****CONTINUOUS ASSESSMENT***(Module custodian: Department of Informatics)*

The general purpose of this module is to prepare the student to investigate and analyse a research problem using introductory research methods and tools that are commonly used in computing and related research fields. The module will also enable participants to formulate, define research problems and questions, critically review the literature, research designs and reported research findings, evaluate and select appropriate research methods and data collection techniques for formulating ethical research proposals. (Total notional time: 150 hours)

**S****STRATEGIC INFORMATION SYSTEMS (SIS117V)****1 X 3-HOUR PAPER***(Module custodian: Department of Informatics)*

The student will be able to: Interpret information to be able to find how to sustain a competitive advantage; make use of basic competitive analysis techniques; demonstrate the strategic use of information systems and the impact thereof on the business and organisational strategies; identify the influence of IT in the design of business and business processes; argue and demonstrate how information requirements for specific businesses must be met to gain competitive advantage; and incorporate important and relevant aspects of information into strategic solutions such as ethics, funding, project management and emerging architectures in corporate IS solution design. (Total notional time: 150 hours)

