

BACCALAUREUS TECHNOLOGIAE: FIRE TECHNOLOGY

Qualification code: BTFY01 - NQF Level 7

Campus where offered: Arcadia Campus (block-mode classes)
Last year of new intake: 2019
Teach-out (phase-out) date: 31 December 2021

Students registered for this qualification should complete their studies according to the teach-out date prescribed for the qualification, subject to the stipulations of Regulation 3.1.11 and 3.1.13 in the Students' Rules and Regulations.

Information on phased-out programmes can be obtained from the TUT website, www.tut.ac.za.

Key to asterisks:

* Information does not correspond to information in Report 151.

(Deviations approved by the Senate in May 2009.)

CURRICULUM

Consult the 2018 Faculty Prospectus for the full contents of the qualification.

SUBJECTS PRINTED IN BOLD ARE NOT FOR REGISTRATION PURPOSES.

ATTENDANCE

CODE	SUBJECT	CREDIT
FIRST SEMESTER (2021)		
FIN411T	Fire Technology: Investigations IV (if not already passed)	(0,150)
PYE201T	Psychology: Emergency Services II	(0,092)
RMD110E	Research Methodology	
RMD11XE	Research Methodology: Fire Technology	(0,045)
TOTAL CREDITS FOR THE SEMESTER:		0,287
SECOND SEMESTER (2021)		
EMR401T	Emergency Management IV	(0,150)
FIN411T	Fire Technology: Investigations IV (offered in both semesters)	(0,150)
FMN211T	Financial Management II	(0,092)
MIS201T	Management Information Systems II	(0,092)
RMD110E	Research Methodology	
RMD11YE	Research Methodology: Statistics	(0,045)
TOTAL CREDITS FOR THE SEMESTER:		0,379
FIRST SEMESTER (2022)		
FBT411T	Fire Technology IV	(0,150)
LES201T	Legislation: Emergency Services II	(0,092)
SHS101T	Safety and Health: Emergency Services I*	(0,092)
TOTAL CREDITS FOR THE SEMESTER:		0,334
TOTAL CREDITS FOR THE QUALIFICATION:		1,000

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

E

EMERGENCY MANAGEMENT IV (EMR401T) **1 X 3-HOUR PAPER**
(Subject custodian: Department of Physics)
Evolution of management. Management practices. Styles of management. Management by objectives. Top management and team work. External relations. Protocol. Case studies. (Total tuition time: ± 45 hours)

F

FINANCIAL MANAGEMENT II (FMN211T) **1 X 3-HOUR PAPER**
(Subject custodian: Department of Finance and Investment)
Budgets, income and expenditure, budget systems. Tenders and contracts. Loans. Financial control and accountability. Stocking. Case studies. The time value of money. (Total tuition time: ± 45 hours)

FIRE TECHNOLOGY IV (FBT411T) **1 X 3-HOUR PAPER**
(Subject custodian: Department of Physics)
Background: today's arson problem. Chemistry of fire. Fire scene investigation. Types of fire. Explosives. Interviews. Court appearances. (Total tuition time: ± 45 hours)

FIRE TECHNOLOGY: INVESTIGATIONS IV (FIN411T) **CONTINUOUS ASSESSMENT**
(Subject custodian: Department of Physics)
Students must undertake an investigation of a practical/applied research nature of at least 120 hours. A written report/dissertation must be submitted for evaluation, examination and moderation. (Total tuition time: ± 45 hours)

L

LEGISLATION: EMERGENCY SERVICES II (LES201T) **1 X 3-HOUR PAPER**
(Subject custodian: Department of Physics)
Ordinances of local government. Laws and their interpretation. Criminal law. Interpretation of Acts. Fire Brigades Services Act, 1987 (Act No. 99 of 1987). Labour matters. Departmental investigations. Ethics. Case studies. Civil Defence Act, 1966 (Act No. 39 of 1966). Criminal Procedure Act, 1977 (Act No. 51 of 1977). Machinery and Occupational Safety Act, 1983 (Act No 6 of 1983). Trace licences. Law of Delicts. Riots Assemblies Act. (Total tuition time: ± 45 hours)

M

MANAGEMENT INFORMATION SYSTEMS II (MIS201T) **1 X 3-HOUR PAPER**
(Subject custodian: Department of Informatics)
Importance of MIS. Evaluation of information systems. Efficiency of information systems. Basic principles of work study. Management functions. External relations. Case studies. (Total tuition time: ± 45 hours)

P

PSYCHOLOGY: EMERGENCY SERVICES II (PYE201T) **1 X 3-HOUR PAPER**
(Subject custodian: Department of Biomedical Sciences)
Introduction to psychology. Personality and temperament. Developmental psychology. Intellectual processes. Defence mechanisms. Physical, environmental and psychological stressors. Stress symptoms and reduction. Critical incident stress. Well-being programmes. (Total tuition time: ± 45 hours)

R

RESEARCH METHODOLOGY: FIRE TECHNOLOGY (RMD11XE) CONTINUOUS ASSESSMENT
(*Subject custodian: Department of Physics*)

A general introduction to research methodology, including the planning and execution of the research process, as well as the different types of research strategies. Basic principles of measurement and methods of data collection. (Total tuition time: ± 45 hours)

RESEARCH METHODOLOGY: STATISTICS (RMD11YE) CONTINUOUS ASSESSMENT
(*Subject custodian: Department of Mathematics and Statistics*)

Statistical methods for the preparation and processing of data, which include descriptive statistical methods. (Total tuition time: ± 45 hours)

S

SAFETY AND HEALTH: EMERGENCY SERVICES I (SHS101T) 1 X 3-HOUR PAPER
(*Subject custodian: Department of Physics*)

Overview of the Occupational Health and Safety Act, 1993 (Act No. 85 of 1993 . Introduction to basic health and safety risks; urban terrorism; risk evaluation; control procedures of emergency services; emergency situations involving disasters (fire, EMS and nuclear radiation); and practical safe handling of radioactive materials (WIL training at Necsa). (Total tuition time: ± 45 hours)

