BACCALAUREUS TECHNOLOGIAE: KNOWLEDGE MANAGEMENT
Qualification code: BTKM03 - NQF Level 7

Campus where offered: Soshanguve South Campus (day classes offered during the week and on Saturdays)
Last year of new intake: Not available
Teach-out (phase-out) date: 31 December 2014

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 2011.)

CURRICULUM
Consult the 2019 Faculty Prospectus for the full contents of the qualification.

FIRST OR SECOND SEMESTER

<table>
<thead>
<tr>
<th>CODE</th>
<th>SUBJECT</th>
<th>CREDIT</th>
<th>PREREQUISITE SUBJECT(S)</th>
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</thead>
<tbody>
<tr>
<td>ADQ401T</td>
<td>Advanced Knowledge Management IV*</td>
<td>(0,100)</td>
<td>Knowledge Management IV</td>
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<tr>
<td>BIF401T</td>
<td>Business Information Systems IV</td>
<td>(0,100)</td>
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<tr>
<td>BUA401T</td>
<td>Business Analysis IV</td>
<td>(0,100)</td>
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<tr>
<td>INH401T</td>
<td>Information Systems Technologies IV</td>
<td>(0,100)</td>
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<tr>
<td>KSM401T</td>
<td>Knowledge Management IV</td>
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<tr>
<td>KTG401T</td>
<td>Knowledge Technologies IV</td>
<td>(0,100)</td>
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<tr>
<td>PAJ411I</td>
<td>Principles of Research IV*</td>
<td>(0,100)</td>
<td>Principles of Research IV</td>
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<tr>
<td>PJT411C</td>
<td>Project IV*</td>
<td>(0,200)</td>
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<tr>
<td>PJT410Q</td>
<td>Project IV* (re-registration)</td>
<td>(0,000)</td>
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<tr>
<td>SYD401T</td>
<td>Systems Development IV</td>
<td>(0,100)</td>
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</table>

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:

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ADVANCED KNOWLEDGE MANAGEMENT IV (ADQ401T) 1 X 3-HOUR PAPER
(Subject custodian: Department of Informatics)

Students have to be able to construct the relevant documents, reports and other sources and to search that content for meaningful relationships synthesise the concepts and techniques such as data mining, information management, groupware and BI software. The content entails: Knowledge Management Life Cycle and Models, Competitive Intelligence and Business Intelligence. (Tuition time: ± 54 hours)
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)

BUSINESS INFORMATION SYSTEMS IV (BIF401T) 1 X 3-HOUR PAPER
(Subject custodian: Department of Informatics)
This subject introduces the student to the operation of different business information systems, exploring the broader context within which information systems operate as well as investigating their implications. After studying this subject, students will be able to identify and apply the relevant business information system based on industry-related technology for the organisational needs and recommend the relevant choice, selection and implementation of the business information system. (Total tuition time: ± 54 hours)

INFORMATION SYSTEMS TECHNOLOGIES IV (INH401T) 1 X 3-HOUR PAPER
(Subject custodian: Department of Informatics)
This subject is aimed at extending the skills of the students by helping them to understand the fundamentals of IT soft skills for both the IT industry and other working environments, upon which a successful career can be built. On completion of the subject, students will be able to apply the latest technology in the organisational structure, examine the fundamentals of computers and computer terminology, and appraise the use of personal computer hardware, software and the web. (Total tuition time: ± 54 hours)

KNOWLEDGE MANAGEMENT IV (KNM401T) 1 X 3-HOUR PAPER
(Subject custodian: Department of Informatics)
This subject is aimed at extending the skills of the students by introducing students to the various Knowledge Management concepts, design, implementation and management of KNM systems, as well as an overview of challenges that organisations face during the implementation of KNM initiatives. As the economy increasingly moves towards a knowledge-based economy, the ability to manage knowledge becomes a matter of competitive survival for organisations. Principles and practice of knowledge management in organisations, therefore, become the focal point of this subject. On completion of the subject, students will be able to identify and apply the theoretical and practical knowledge management principles to address management pitfalls, manage these knowledge management challenges; and implement the relevant knowledge management steps to ensure success within the context of the organisation. (Total tuition time: ± 54 hours)

KNOWLEDGE TECHNOLOGIES IV (KTB401T) 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)
PRINCIPLES OF RESEARCH IV (PAJ411I)  
(Subject custodian: Department of Informatics)  
CONTINUOUS ASSESSMENT
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)

PROJECT IV (PJT411C, PJT410R)  
(Subject custodian: Department of Informatics)  
CONTINUOUS ASSESSMENT
This subject is an IT project that includes IT research and writing a research report. On completion of the subject, students will be able to apply the research and presentation skills obtained in Principles of Research, apply the correct Harvard reference method, demonstrate writing skills, and demonstrate research skills according to the project topics and research questions in line with the Department niche area. (Total tuition time: ± 26 hours)

SYSTEMS DEVELOPMENT IV (SYD401T)  
(Subject custodian: Department of Informatics)  
1 X 3-HOUR PAPER
Students are introduced to all processes and models of the SDLC cycle. This subject deals with the Methodology and techniques of design and development of information systems. On completion of the subject, students will be able to evaluate the impact of IT and the future of IT within the organisation, determine the Role of System Analysis and Design within the project, summarise the Business Process and Models, discuss the role of enterprise resource planning (ERP) within the organisation, discuss the role of knowledge management systems within the organisation, determine the Information System Users and their needs, and examine the System Development Tools and Techniques used within a project. (Total tuition time: ± 54 hours)