



Informatik

Topics covered in Grade 5

- DSJ Acceptance User Policy and Password policies
- Desktop, Icons and settings
- Files and Folders
- Email Basics
- PowerPoint: Create and form a presentation
- Word processing: Creating and working with *Word* documents and applying basic formatting
- Internet essentials

Topics covered in Grade 6

- Computer hardware: definition, types of computers, input/output devices and ports
- Computer software: definition and types
- Tools and settings
- File Management
- Word processing: Create and format tables, referencing, advanced formatting
- Spreadsheets: Create and format worksheets
- Graphic Design (GIMP) / Programming e.g. Microbit/Scratch
- Project

Topics covered in Grade 7

- Computer software: Systems and Application software
- Storage media and compression
- Networks and network access
- Protecting data and devices
- Malware
- Health and green IT
- Spreadsheet: formula, functions, graphs
- Programming: e.g. Scratch/Microbit
- Project

Topics covered in Grade 9

- HTML
- Revision on hardware/software
- Database design
- Online communication
- Computational thinking
- Robo-mind
- Revise Word and Excel
- Programming
- Project

From Grade 10 to Grade 12 the subjects CAT and IT are offered in the NSC stream at the DSJ.



The requirements and syllabi of the CAPS document for CAT/IT as set out by the Department of Education and the Subject Assessment Guidelines for CAT/IT as set out by the IEB content in the FET band.

What is Information Technology?

Information Technology is the study of the various interrelated physical and non-physical technologies used for the capturing of data, the processing of data into useful information and the management, presentation and dissemination of data. Information Technology studies the activities that deal with the solution of problems through logical and computational thinking. It includes the physical and non-physical components for the electronic transmission, access, and manipulation of data and information (*CURRICULUM AND ASSESSMENT POLICY STATEMENT (CAPS)*)

IT Grade 10

Systems Technologies

- Introduction to hardware, software and information management

Internet and communications technology

- Communication between computers, networks and the Internet

Social and ethical issues

- Describe the reason for and effects of using computers

Data and Information management and Solution management

- Link between data and information
- Problem solving using programming concepts
- Database and SQL

IT Grade 11

Systems Technologies

- Link between various components of computers

Internet and communications technology

- Networks

Social and ethical issues

- Effects of the use of computers and information

Data and Information management and Solution management

- Problem solving
- Database and SQL: more complex SQL statements
- Software creation: data validation techniques
- Software Creation:



IT Grade 12

Systems Technologies

- Hardware and software solution for a given problem

Internet and communications technology

- Cloud computing and internet service technologies

Social and ethical issues

- Evaluate the effects of the use of computers and information
- *Data and Information management and Solution management*
 - Problem solving:
 - Database and SQL: Query a multi-table database using complex SQL statements
 - Software creation: implements an effective online help system for existing or new software application and produces a well written and well-presented documentation for an existing new software application

What is Computer Applications Technology?

Computer Applications Technology is the study of the integrated components of a computer system (hardware and software) and the practical techniques for their efficient use and application to solve everyday problems. The solutions to problems are designed, managed and processed via end-user applications and communicated using appropriate information and communication technologies (ICTs). ICTs are the combination of networks, hardware and software as well as the means of communication, collaboration and engagement that enable the processing, management and exchange of data, information and knowledge information (*CURRICULUM AND ASSESSMENT POLICY STATEMENT (CAPS)*).

CAT Grade 10

Systems Technologies

- Hardware, software and file management

Internet and network technology

- Basics of networks and the world wide web

Social implications

- Reasons and effects of using computers

Solution development

- Problem solving
- Word processing: basic features
- Spreadsheets: basic features
- Presentations: basic features



CAT Grade 11

Systems Technologies

- Type of hardware and software and typical features

Internet and communications technology

- Types and features

Social and ethical issues

- Effects of the use of computers and information

Solution development

- Computational thinking
- HTML: basic features
- Word processing: Effective use of advanced features
- Spreadsheets: Effective use of the Formulas, Data and Charts
- Database: Basic concepts

CAT Grade 12

Systems Technologies

- Types of computer systems for different users

Internet and communications technology

- Types and uses

Social and ethical issues

- Examine and evaluate the effects of the use of computers and information across a range of application areas

Data and Information management and Solution management

- Problem solving:
- Database Design:
- Project: produces a well written and well-presented document