

# Pensumliste for ITGK – TDT4105/4110

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## Fellespensum

Teori: Using Information Technology, Williams/Sawyer 9<sup>th</sup> edition.  
*Practical Action* og *Experience Box* er ikke pensum hvis ikke angitt.

Følgende er pensum:

- Kapittel 1: Introduction to Information Technology:
  - 1.2 s4 – s5 (t.o.m. The Two Parts of IT)
  - 1.3 kun den historiske tidslinjen (panel 1.5)
  - 1.4 hele kapittelet
  - 1.5 hele kapittelet
  - 1.6 hele kapittelet
- Kapittel 2: The Internet & World Wide Web:
  - 2.1 hele kapittelet
  - 2.2 hele kapittelet
  - 2.3 s64 – s68.
  - 2.5 s92-s97 (t.o.m. The Web Automatically Comes to You...)
  - 2.6 hele kapittelet
- Kapittel 3: Software:
  - 3,1 hele kapittelet
  - 3.2 hele kapittelet
  - 3.3 hele kapittelet
  - 3.9 hele kapittelet
  - Tidslinjen fra s166 – s173 (panel 3.29)
- Kapittel 4: Hardware: The CPU and Storage:
  - 4.1 hele kapittelet
  - 4.2 hele kapittelet
  - 4.3 hele kapittelet
  - 4.4 hele kapittelet
- Kapittel 5: Hardware: Input & Output:
  - 5.1 hele kapittelet
  - 5.2 hele kapittelet
  - 5.3 hele kapittelet
- Kapittel 6: Communications, Networks & Safeguards:
  - 6.1 hele kapittelet
  - 6.2 hele kapittelet
  - 6.3 hele kapittelet
  - 6.4 hele kapittelet
  - 6.5 hele kapittelet
- Kapittel 8: Databases & Information systems
  - 8.1 hele kapittelet
  - 8.2 hele kapittelet
  - 8.3 hele kapittelet
  - 8.4 hele kapittelet
  - 8.7 hele kapittelet
  - 8.8 hele kapittelet

- Kapittel 10: System Analysis & Programming
  - 10.1 hele kapittelet
  - 10.2 hele kapittelet
  - 10.6 hele kapittelet

### Pensum TDT4105

Programmering: Matlab: A Practical Introduction to Programming and Problem Solving, second edition, Stormy Attaway

- Kapittel 1: Introduction to MATLAB
- Kapittel 2: Introduction to MATLAB Programming
- Kapittel 3: Selection Statements
- Kapittel 4: Loop Statements
- Kapittel 5: Vectorized Code
- Kapittel 6: MATLAB Programs
- Kapittel 7: String Manipulation
- Kapittel 8: Data Structures: Cell Arrays and Structures
- Kapittel 9: Advanced File Input and Output
  - 9.1 Lower-level file i/o functions
- Kapittel 10: Advanced Functions
  - 10.1 Anonymous functions
  - 10.2 Uses of function handles
  - 10.5 Recursive functions
- Kapittel 13: Basic Statistics, Sets, Sorting, and Indexing
  - 13.3: Sorting
  - 13.5: Searching

### Pensum TDT4110

Programmering: Exploring Python, Timothy A. Budd

- Kapittel 1: Exploring Python
- Kapittel 2: Creating Python Programs
- Kapittel 3: Defining Functions
- Kapittel 4: Strings, Lists, Tuples, and Sets
- Kapittel 5: Dictionaries
- Kapittel 6: Files
- Kapittel 10: Scopes, Name Spaces, and Modules
  - Alt utenom Class Scopes og det som har med klasser å gjøre
- Appendix: s244 – s255 utenom Class Definitions

### Generelt for TDT4105 og TDT4110

Alle foiler, øvinger og løsningsforslag er også pensum.