



ID	2421
Curricular Unit	Programming Language
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Learning Outcomes	The aim of the course is to introduce the most basic aspects of programming languages. The important fundamental concepts and techniques for writing programs are introduced. The ideas of the course are illustrated through programs in Microsoft Visual Basic Express Edition Language.

1. Introduction to Programming:

What are programming languages?

The elements of language

Types of language

Compiler / Interpreter

2. Logic of Programming:

Introduction

Algorithms

**Data Types** 

Input and output operations

Structure of Control Algorithms

Vectors and Matrices

Sub-programs

**Parameters** 

3. Visual Basic:

Most important terminology

Brief Explanation of the Work Environment of Visual Basic Program

Understanding aspects of programming in VB

Project in VB

The most commonly used objects

**Syllabus** 

Forms

**Properties** 

Methods

**Events** 

Type Modules

Write code in VB

Forms

Menu Editor

Variables

Arrays

Variables created by the user

Constants

Collections

Subprograms

Comparison Operators

**Logical Operators** 

Decision-making structures

Repetition structures

Reading and writing external files

Compilation

Errors

**Evaluation** 

Discipline is of theoretical and practical nature. Daily practice in the development of small routines computing is essential to the learning process. The evaluation is obtained alternatively by continuous evaluation or in the final exam. Continuous assessment consists of two tests. The two tests are written with practical development of small routines The Final Exam consists of a aspect theoretical and practical and in the end the student must make an oral examination.

**Bibliography** 

A list is presented to the students.