



Universidad Tecnica Federico Santa Maria
Computer Science Department

Subject: PROGRAMMING		Acronym: IWI-131
Credits: 3	Prerequisites: Admission to first year	
Lecture hrs. per week: 4	Asst. hrs. per week: 2	Lab. hrs. per week: 2

Objectives:

At the end of the course the student will know the basic concepts of Programming and will be able to:

- use a personal computer,
- design algorithms with simple structure and
- create programs with a simple structure, using the tools of a programming language.

Contents:

1. Algorithms. Representation of algorithms. Basic structures and typical algorithms.
2. Introduction to a programming language:
3. Simple data types, operations, expressions, data input and output
4. Structured data types
5. Control structures, sequential, selective, repetitive
6. Modular programming.

Bibliography:

- *"Programming in Turbo Pascal, versions 5.5 and 7.0"*, L. Joyanes Aguilar, Mc Graw-Hill, Madrid, 1993
- *"Turbo Pascal with applications"*, J. Hennefeld, Grupo Editorial Iberoamericana, Mexico, 1992
- *"Programming in C"*, M. Waite, S. Prata, D. Martin, A. Multimedia, Madrid, 1988
- *"Programming course with C++"*, L. Joyanes Aguilar, Mc Graw-Hill, Madrid, 1996

Methodology:

Theoretical classes are done accompanied by programming exercises in the laboratory.

Assessment:

3 tests and tasks that must be performed in the laboratory.

Prepared:	Daniela Tchobanova CC.DD. 42/97
Approved:	CC.DD. 42/97
Date:	01/20/1998