

Global Learning Semesters

Course Syllabus

Course: COMP-357 Logical Construction & Testing of Programs

Department: Computer Science

Host Institution: University of Nicosia, Nicosia, Cyprus



Course Summary		
Course Code	Course Title	Recommended Credit Hours
COMP-357	Logical Construction & Testing of Programs	3
Semester Offered	Contact Hours	Prerequisites
Please contact us	42-45	One Procedural Language
Department	Level of Course	Language of Instruction
Computer Science	Upper Division	English

Course Description

Comprehensive study of construction of methods of finding and correcting programming errors associated with system development. Emphasis will be on the modular design concept and its impact in logical programming and debugging. Such debugging techniques as proper testing procedures and test data construction, plus logical and technical testing, will be studied. Computer-generated diagnostics, diagnostic programs, and other debugging aids will be used extensively for systems development.

Prerequisites

One Procedural Language

Topic Areas

1. Program Errors: Syntax, Diagnostics, Logic Errors.
2. Validation Inputs.
3. Data Validation Techniques: Reasonableness, Limits.
4. Other Techniques: Control Lists, Verification.
5. Desk-Top Debugging. Run-time Debugging.
6. Monitoring Intermediate Values. Missing Values.
7. Not Detected Errors.
8. Computer-generated diagnostics. Diagnostic programs.

Readings and Resources

Required Textbook

- The main course textbook has not been selected.