

M.Sc PROGRAMME in «BIOINFORMATICS»		
MODULE PROGRAM SEMESTER A		
OCTOBER 2005 – FEBRUARY 2006		
Programming Languages and Software Tools in Bioinformatics I (18:30-21:00)		
DATE	LECTURE	LECTURERS
Thursday 20/10/2005	Introduction Data Types: Fundamental data types, definition of octal and hexadecimal constants, types of variables, arrays and strings, enumeration constants	Prof. Stavros J. Hamodrakas Ioannis Hamodrakas
27/10/2005	Operators I: Substitution operator, numeric operators, increment and decrement operators, comparison operators, Boolean logical operators, digital logical operators, hypothetical operator	Prof. Stavros J. Hamodrakas Ioannis Hamodrakas
3/11/2005	Operators II: explicit data type conversion– the cast operator, the sizeof operator, Priorities of operators, mixture of different data types in expressions.	Prof. Stavros J. Hamodrakas Ioannis Hamodrakas
10/11/2005	Control Structures: if structure, while structure, for structure, switch/case structure, continue structure, goto structure, recursion	Prof. Stavros J. Hamodrakas Ioannis Hamodrakas
24/11/2005	Pointers: Definition, pointer variables, applications, Dynamic memory allocation functions.	Prof. Stavros J. Hamodrakas Ioannis Hamodrakas
1/12/2005	Derived data types: Data structures, Bit fields, Unions, Definition of new data type: typedef	Prof. Stavros J. Hamodrakas Ioannis Hamodrakas
8/12/2005	The C pre-processor: Definition of constants: The #define directive, File inclusion: the #include directive, Conditional compilation	Prof. Stavros J. Hamodrakas Ioannis Hamodrakas
15/12/2005	Input/Output and Library Functions: Input/Output functions, other library functions	Prof. Stavros J. Hamodrakas Ioannis Hamodrakas
22/12/2005	The structure of C programs: Functions, Arguments of the main function.	Prof. Stavros J. Hamodrakas Ioannis Hamodrakas
12/01/2006	Applications I (Simple Bioinformatics Programs)	Prof. Stavros J. Hamodrakas Ioannis Hamodrakas
19/01/2006	Applications II (Simple Bioinformatics Programs)	Prof. Stavros J. Hamodrakas Ioannis Hamodrakas
26/01/2006	Applications III (Simple Bioinformatics Programs)	Prof. Stavros J. Hamodrakas Ioannis Hamodrakas