

Banaras Hindu University
Mahila Mahavidyalaya
M.Sc. in Bioinformatics (Two Years)

(Revised Course Structure and Syllabus, Board of Studies held on 25.05.2018)

BIM101	FUNDAMENTALS OF PROGRAMMING LANGUAGES	Credits 3
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Basics of Computer and operating systems, Linux Operating system

(vi editor, few basic commands like directory creation, deletion, permission setting etc. & programming of C).

Introduction to programming Languages and Paradigms, Data Representation, Data Abstraction, Structured Programming, Block Structuring.

Concepts of flow charting and algorithm development.

Introduction to Programming Language C, Data Type, Operators and Expressions in C,

Control and Repetitive Statements: IF-THEN-ELSE, SWITCH, WHILE, FOR, DO; Break and Continue Statements, Input and Output functions, Function and Program Structure in C,

Parameter passing, Pointers, Arrays, Structures, C-Library.

Suggested Readings

1. Sethi, R., 1996, Programming Languages, Addison-Wesley.
2. Appleby, D. and Vandkopple, J.J., 1991, Programming Languages, Tata McGraw-Hill.
3. Kernighan, B.W. and Ritchie, D.M., 2002 The C Programming Language, Prentice-Hall, India.
4. Gottfried, B.S., 1998 Schaum's Outline of Theory and Problems of Programming with C, McGraw-Hill
5. Schildt, H., 1987 C: The Complete Reference, Osborne/ TMH.