B.Ed(4 Years) Elementary Education

Code	Subject Title	Cr. Hrs	Semester
EDE- 184	Computer Science II (Computer Programming)	3	
Year	**Discipline**		
	Elementary Education		

Aims

This course acts as a foundation for the following semesters. The course aims to help the students increase their proficiency in Computer by enhancing their knowledge in the subject.

Objectives

Upon the successful completion of this course the students will be able to:
- Explain the Introductory programming concept:
- Describe the Visual basic integrated development environment
- Understand and explain the foundations of Computer
- Clarify the Controls elements
- Apply their knowledge in different situations
- Develop a sense of understanding the trends and issues of Computer

Syllabus

Theory;

Introductory programming concept: problem solving, algorithms, and pseudo code.

Programming techniques: visual programming, even, driven

Programming, object-oriented programming, structured programming. Visual basic integrated development environment. Controls elements. Data types. Variables and assignment statement. Arithmetic operators and scope: data conservation, expression. Variable scope, declaring form and project variables and constants. Modules and producers: sub producers, event procedures, function producers, and optional argument. Branches and looping rational operators and logical expression, logical operators, if-then-else, case, for next looping with do and while lpp : menu and dialog boxes; arrays searching and :sorting: what is array, declaring arrays, using arrays, control arrays ad user defined types. Error handling. Sequential files: file details, file operator, add report to programs, programming with fixed report length. Introductory database programming: why use data bus, data control and creating data

Text Books
- Harriger, A. R. (1999). *Introduction to Computer Programming with Visual Basic 6: A Problem Solving Approach*: Que.
- Deitel, H. M., Deitel, P. J., & Nieto, T. R. (2003). *Visual Basic 6 how to Program*: Prentice Hall.
- Siler, B., &Spotts, J. (2001). *Special Edition Using Visual Basic. Net*: Que Publishing

Reference Material

Student mast implement the concept study in theory part. For practice see examples given in Deitel, H. M., Deitel, P. J., & Nieto, T. R. (2003). *Visual Basic 6 how to Program*: Prentice Hall.

Some practical examples as guide line are given below:

1. Test if a given integer is old or even
2. Given a sides of a triangles, determine the types of a triangle
3. Print integers in the specified range; make every alternate integers in the output negative
4. Print leap year in a given century