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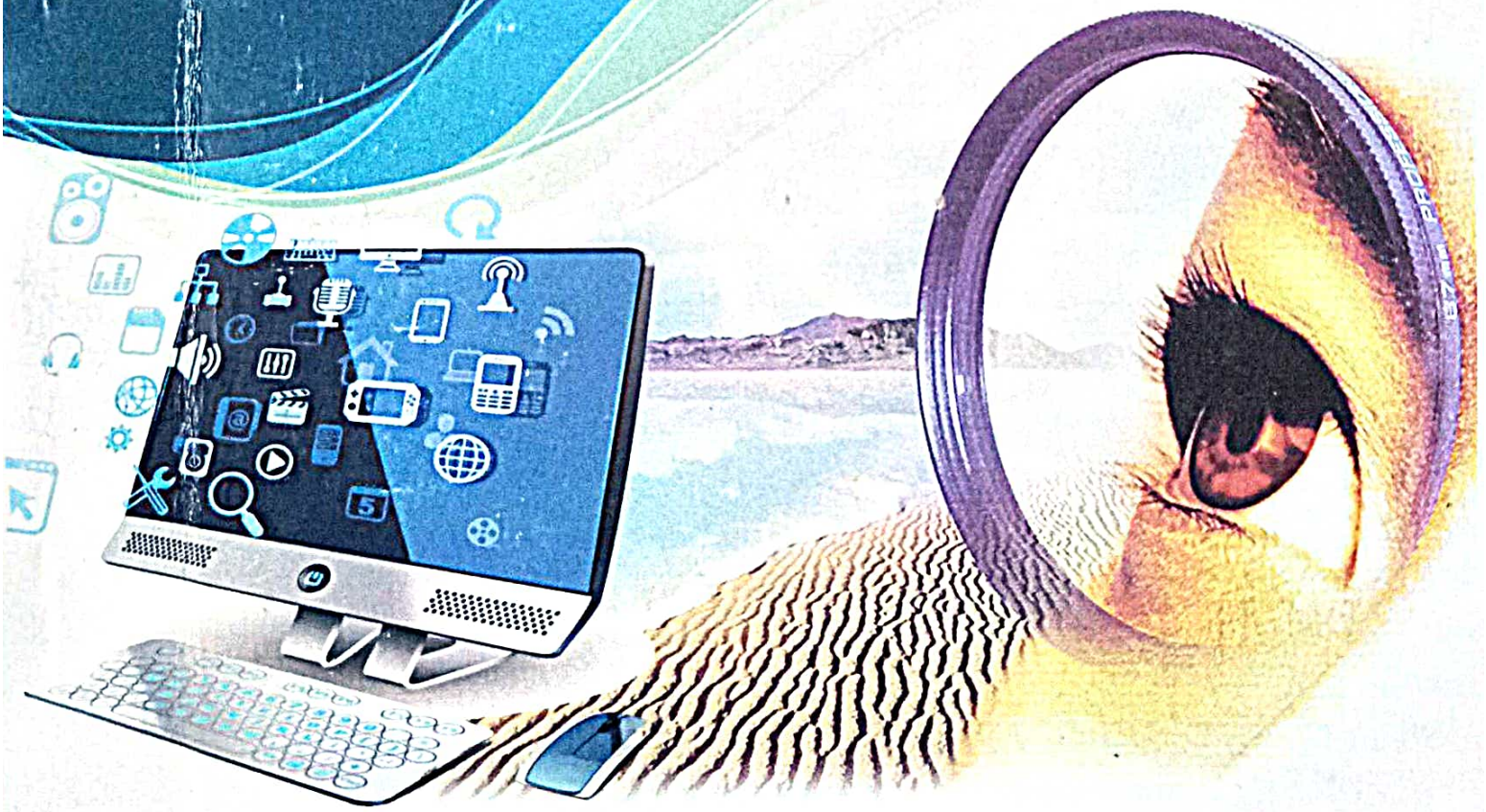
Computer Fundamentals and Photoshop

B.Sc (Comp. Sci.) / B.Com (Comp. Appl.)
First year - First Semester



Cheekatimarla Anil Kumar

COMPUTER FUNDAMENTALS AND PHOTOSHOP

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The book comes into existence due to my observation of la of support material of undergraduate students. It published with the belief that it will help the UG (CBC First Year – First semester B.Sc. Computer Science Information Technology & B.Com Computer Applicatio students to the maximum extent.

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Chapter – 1:
Introduction to Computers

1.1. Define a Computer:

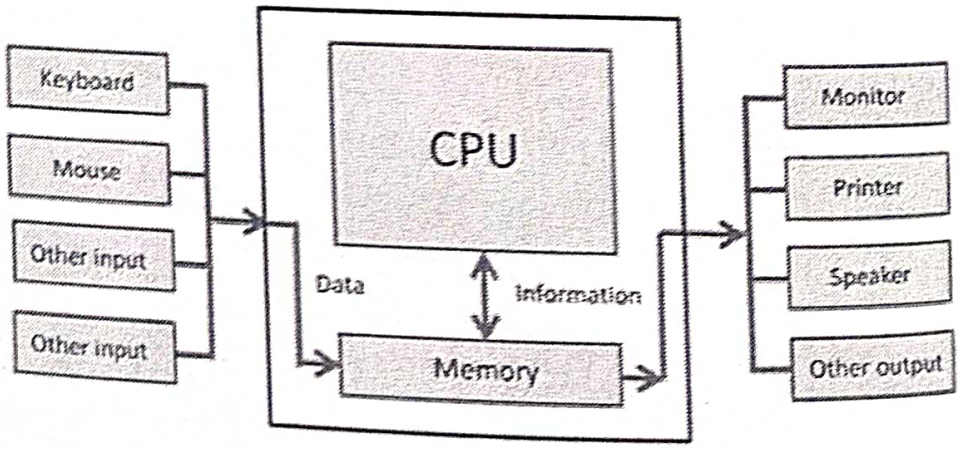
Computer is an advanced electronic device that takes raw data as input from the user and processes these data under the control of set of instructions and gives the result and saves output for the future use.

The basic components of a modern digital computer are: Input Device, Output Device, Central Processor Unit (CPU), mass storage device and memory.

accepts data	Input
processes data	Processing
produces output	Output
stores results	Storage

The word compute is derived from the Latin word 'computare', was meaning "arithmetic, accounting".

The Computer meaning is the digital device that stores information in memory using input devices and manipulate information to produce output according to given instructions.



The actual machinery, the physical parts of a computer system refer to as Computer hardware; the instruction (a

program) that tells the computer what to do or how to do, that is called Computer software.

1.2. Characteristics of a Computer:

- Speed: As you know computer can work very fast. It takes only few seconds for calculations that we take hours to complete. You will be surprised to know that computer can perform millions of instructions and even more per second. Therefore, we determine the speed of computer in terms of microsecond 10^{-6} and nanosecond 10^{-9}. From this you can imagine how fast your computer performs work.

- Accuracy: Computer always gives accurate results. The accuracy of Computer does not go down when they are used continuously for hours together. It always gives accurate results.

- Diligence: A computer is free from tiredness, lack of concentration, etc. It can work for hours without creating any error. If millions of calculations are to be performed, a computer will perform every calculation with the same accuracy.

- Versatility: It means the capacity to perform completely different type of work. You may use your computer to prepare payroll slips. Next moment you may use it for inventory management or to prepare electric bills.

- No IQ: Computer is a dumb machine and it cannot do any work without instruction from the user. It performs the instructions at tremendous speed and with accuracy. It is you to decide what you want to do and in what sequence. So a computer cannot take its own decision as you can.

- Storage: The Computer has an in-built memory where it can store a large amount of data. You can also store data in secondary storage devices such as floppies, which can be kept outside your computer and can be carried to other computers.

- Automation: Computers are quite capable of functioning automatically, once the process is given to the computer. They do not require any instruction from the operator at any stage of the process. Computers can be programmed to perform a series of complex tasks involving multiple programs. Computers will execute the programs in the correct sequence, provided they are programmed correctly.

1.3. Limitations of a Computer System:

- Computers can't think: Computers cannot think and they can't do any job unless they are first programmed with specific instructions for same. They work as per stored instructions. Algorithms are designed by humans to make a computer perform a special task. This is also called artificial intelligence.

- Computers can't decide: Computers are incapable of decision making as they do not possess the essential elements necessary to take a decision i.e. knowledge, information, wisdom, intelligence and the ability to judge.

- Computers can't express their Ideas: In any type of research ideas plays a vital role. In this context, computers can't express their ideas.

- Computers can't implement: Though computers are helpful in storage of data and can contain the contents of encyclopaedias even, but only humans can decide and implement the policies.

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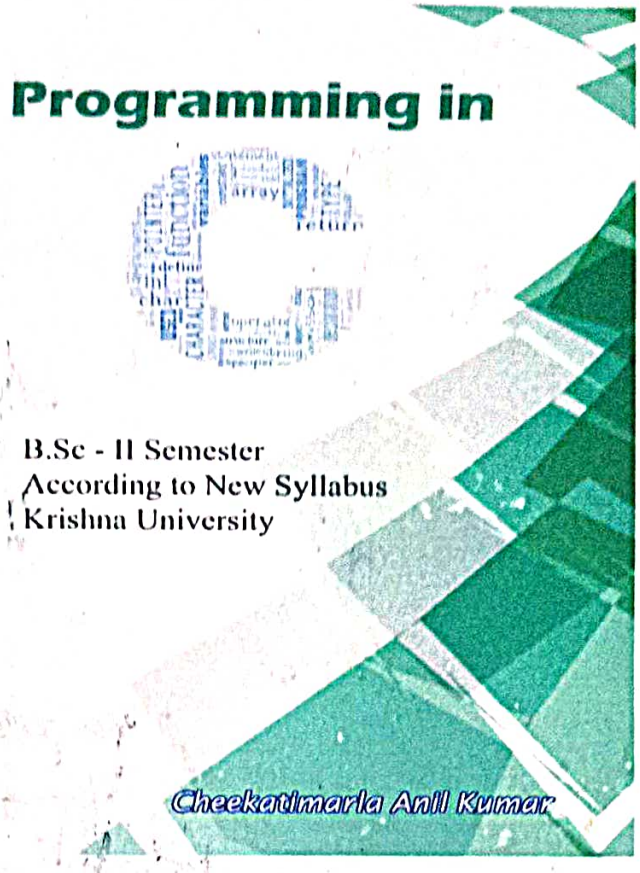

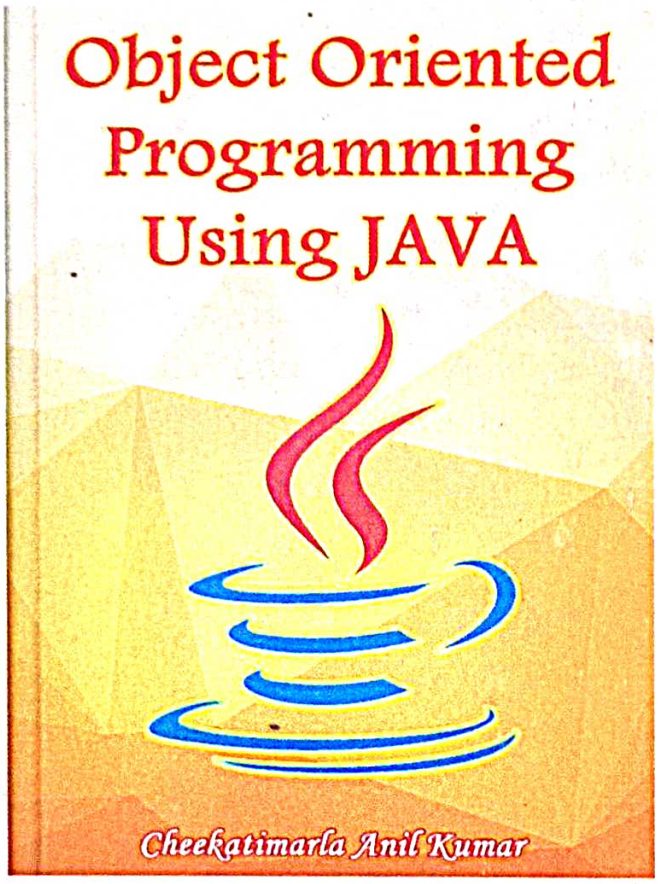

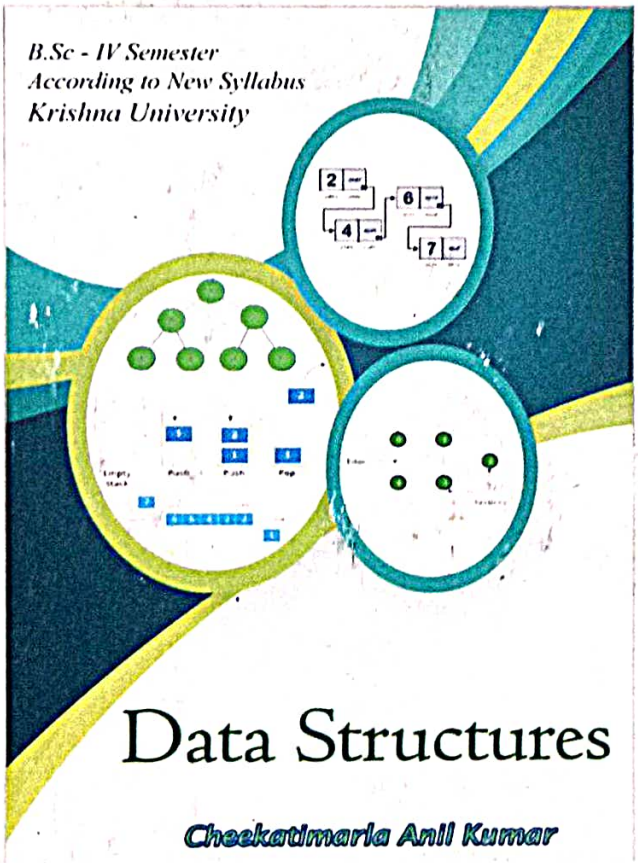

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