



GOVERNMENT (AUTONOMOUS) GIRLS POST GRADUATE COLLEGE OF EXCELLENCE, SAGAR (M.P.)

(NAAC 'A' Grade Accredited)

07582 404480 heggpgcsag@mp.gov.in www.ggpgcs.com



Ref.

Date :

Programming Methodology & Data Structures (S1-BCAA2P)

After the completion of this course, a successful student will be able to do the following :

- Develop simple algorithms and flow charts to solve a problem with programming using top down design principles.
- Writing efficient and well-structured computer algorithms/programs.
- Learn to formulate iterative solutions and array processing algorithms for problems.
- Use recursive techniques, pointers and searching methods in programming.
- Will be familiar with fundamental data structures, their implementation; become accustomed to the description of algorithms in both functional and procedural styles.
- Have knowledge of complexity of basic operations like insert, delete, search on these data structures.
- Possess ability to choose a data structure to suitably model any data used in computer applications.
- Assess efficiency tradeoffs among different data structure implementations.
- Implement and know the applications of algorithms for searching and sorting.
- Know the contributions of Indians in the field of programming and data structures.

Abhishek
PRINCIPAL
Govt. P.G. Girls College
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Date :

Computer Fundamentals, Organization and Architecture S1-BCAA1P

After the completion of this course, a successful student will be able to :

- Understand the basic structure, operation and characteristics of digital computer.
- Design simple combinational digital circuits based on given parameters.
- Understand the working of arithmetic and logic unit.
- Know about hierarchical memory system including cache memories and virtual memory.
- Know the contributions of Indians in the field of computer architecture and related technologies.

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