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| **Week wise distribution** | **Topics Covered** |
| **Week 1** | Algorithm analysis, problem modeling, Basic Flowchart and block diagram |
| **Week 2** | Data Types, Basic programming with algorithm, flow chart, Control structures: if-else, nested-if |
| **Week 3** | switch case, Loops: For, While, do-while |
| **Week 4** | Nested loop, Functions |
| **Week 5** | Recursion, Introduction to Array(1- dimensional) |
| **Week 6** | Mid1 |
| **Week 7** | Multiple subscripted arrays and strings |
| **Week 8** | Introduction to Pointers, Pointers to array and double pointers. |
| **Week 9** | Dynamic Memory Allocation, Pointers functions and void pointers |
| **Week 10** | Introduction to Structures, Structure array and pointer to structures |
| **Week 11** | Mid2 |
| **Week 12** | Union and Bitwise operators |
| **Week 13** | File Processing |
| **Week 14** | File Processing(Binary and Text files), Revision(structures, Pointers, Arrays) |
| **Week 15** | Revision |
| **Week 16** | Project evaluations |

**Tentative Course Outline --- Programming Fundamentals**

**Text Book:**

Name: C How to Program - 7th Edition  
Authors: Paul Deitel, Harvey Deitel  
Publisher:  Pearson

Name: Problem Solving and Program Design in C - 7th Edition  
Authors: Maureen Sprankle , Jim Hubbard  
Publisher:  Prentice Hall