

Detailed Course Schedule with Course Outline:

| Week | Session | Date | Topic | Teaching Method | Reading |
|------|---------|-------|---|-----------------|-------------------------------------|
| 1 | 1 | 25/01 | Syllabus, C Language Overview & C Program Structure | Lecture 1 | Syllabus, Textbook Chapters 1,2,3,7 |
| | 2 | 27/01 | C Basic Syntax, C Data Types, and C Environment Setup | Lecture 2 | Textbook Chapters 1,2,3,7 |
| | 3 | 29/01 | Programming Homework | Lab 1 | |
| 2 | 1 | 01/02 | C Operators | Lecture 3 | Textbook Chapters 4,5 |
| | 2 | 03/02 | C Variables, C Constants and Literals | Lecture 4 | Textbook Chapter 7 |
| | 3 | 05/02 | Programming Homework | Lab 2 | |
| 3 | 1 | 08/02 | Decision Making in C (Part I) | Lecture 5 | Textbook Chapter 5 |
| | 2 | 10/02 | Decision Making in C (Part II) | Lecture 6 | Textbook Chapter 5 |
| | 3 | 12/02 | Programming Homework | Lab 3 | |
| 4 | 1 | 15/02 | Loops in C (Part I) | Lecture 7 | Textbook Chapter 6 |
| | 2 | 17/02 | Loops in C (Part II) | Lecture 8 | Textbook Chapter 6 |
| | 3 | 19/02 | Programming Homework | Lab 4 | |
| 5 | 1 | 22/02 | Functions in C | Lecture 9 | Textbook Chapter 9 |
| | 2 | 24/02 | Scope Rules and Storage Classes | Lecture 10 | Textbook Chapter 10 |
| | 3 | 26/02 | Programming Homework | Lab 5 | |
| 6 | 1 | 01/03 | Arrays in C (Part I) | Lecture 11 | Textbook Chapter 8 |
| | 2 | 03/03 | Arrays in C (Part II) | Lecture 12 | Textbook Chapter 8 |
| | 3 | 05/03 | Programming Homework | Lab 6 | |
| 7 | 1 | 29/03 | Pointers in C (Part I) | Lecture 13 | Textbook Chapters 11,12,17 |
| | 2 | 31/03 | Pointers in C (Part II) | Lecture 14 | Textbook Chapters 11,12,17 |
| | 3 | 02/04 | Programming Homework | Lab 7 | |
| 8 | 1 | 05/04 | Strings in C | Lecture 15 | Textbook Chapter 13 |

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| | 2 | 07/04 | Structures in C | Lecture 16 | Textbook Chapter 16 |
| | 3 | 09/04 | Programming Homework | Lab 8 | |
| 9 | 1 | 12/04 | Unions in C | Lecture 17 | Textbook Chapter 16 |
| | 2 | 14/04 | Bit Fields and File Handling | Lecture 18 | Textbook Chapter 22 |
| | 3 | 16/04 | Programming Homework | Lab 9 | |
| 10 | 1 | 19/04 | Pre-processor Directives and Macros | Lecture 19 | Textbook Chapter 14 |
| | 2 | 21/04 | Header Files | Lecture 20 | Textbook Chapter 15,21 |
| | 3 | 23/04 | Programming Homework | Lab 10 | |
| 11 | 1 | 26/04 | Type Casting | Lecture 21 | Textbook Chapter 7 |
| | 2 | 28/04 | Recursion and Error Handling | Lecture 22 | Textbook Chapter 24 |
| | 3 | 30/04 | Programming Homework | Lab 11 | |
| 12 | 1 | 03/05 | Memory Management and Dynamic Memory Allocation | Lecture 23 | Textbook Chapter 17 |
| | 2 | 05/05 | Semester Projects | | |
| | 3 | 07/05 | Semester Projects | | |
| 13 | 1 | 10/05 | Semester Projects Presentations | | |
| | 2 | 12/05 | Semester Projects Presentations | | |
| 14 | 1 | TBD | Final Exam | | |