



KONGU ARTS AND SCIENCE COLLEGE

(An Autonomous Institution, Affiliated to Bharathiar University, Coimbatore)

ERODE - 638 107

DEPARTMENT OF COMPUTER TECHNOLOGY AND INFORMATION TECHNOLOGY

VALUE ADDED COURSE - SYLLABUS 17VCTAC - THE ART OF C PROGRAMMING

Course Objective: The Objective of the programme is to solve the complex problems in C language.

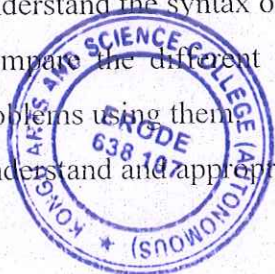
UNIT I		5 Hours
Constants - Variables - Keywords - Data types - Operators		
UNIT II		5 Hours
The decision control structure - The loop control structure - The case control structure.		
UNIT III		5 Hours
Functions - Pointers - The C preprocessor.		
UNIT IV		5 Hours
Arrays - Strings - Structures.		
UNIT V		5 Hours
Console Input/output - File Input/output.		
Total Hours		30 Hours

Reference Books

1. Yeshavant P.Kanetkar " Let us C, BPB Publications, Fifth Edition.
2. Harry H. Chaudhary, Jumping into C Programming Including 2000+ Programming Examples, published by first MIT Create space Inc., 2014.
3. Stephen G. Kochan, Programming in C, Fourth Edition, Person Education ,2015.

Course Outcome: On Completion of this course the students will be able to

- Understand the syntax of data types and evaluate arithmetic expression.
- Compare the different types of decision making and looping constructs and solve problems using them.
- Understand and appropriate the use of arrays, strings and functions.



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VALUE ADDED COURSE – SYLLABUS
17VCTAC – THE ART OF C PROGRAMMING


Paper II - ADVANCED C PROGRAMMING (10 Hours)

Sl. No.	Program	Hours
1	Write a program to convert Fahrenheit to Celsius.	1
2	Write a program to accept three numbers and find the largest and second largest among them.	1
3	Write a program to print all the Armstrong numbers between any 2 given limits.	1
4	Write a program to accept two numbers and perform various arithmetic operations (+, -, *, /) based on the symbol entered.	1
5	Write a program to find the roots of a quadratic equation.	1
6	Create a student database storing the roll no, name, class etc. Implement modify and search operations.	1
7	Write a program to access an array of integers using pointers.	1
8	Write a program to compare two strings using pointers.	1
9	Create a file and store some records in it. Display the contents of the same. Implement search, modify, and delete operations.	1
10	Create C program to convert number from decimal to binary.	1
Total Hours		10 Hours

OUTCOME: Upon successful completion the student will be able to:

- Compare the different types of decision making and looping constructs and solve problems using them.
- Understand and appreciate the use of arrays, strings and functions.




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