

ADD On (Advance C Programming) ADD On (Advance C Programming) [SKILL ENHANCEMENT COURSE]

Semester: II Credits: 2 Subject Code: ADBC22001 Lectures: 30

Course Outcomes:

At the end of this course the learner will be able to,

- Study advanced concepts of programming using the 'C' language.
- Relate code organization with complex data types and structures.
- · Develop programs using files
- Gain knowledge and understand the basics of graphics programming.

Unit 1: Union and Enumeration	08
• Union	
 Definition, Syntax. 	
 Working with union 	***************************************
o Initializing union	der en color
 Advantages of union 	
 Structures versus union 	
 Advantages of union 	
• Enumeration	The second secon
 Enum keyword 	
 typedef keyword 	N. P. C.
 Working with Enum 	

Unit 2: File handling:	
• File	
o Def	
 File Opening Modes 	
 Types of files - text and binary, 	
 Functions: fopen(), fclose(), fgetc(), fputc(), fgets(), fputs(), fscanf(), fprintf(), getw(), putw(), fread(), fwrite(), fseek(),ftell() etc 	
• File Management	
 Opening/Closing a File 	
 Input/Output operations on Files 	
 Error Handling During I/O Operations 	
o Command Line Arguments	

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it 3: Graphics programming	12
 Introduction of graphics Graphical functions Simple Programs 	

Jnit 4	nit 4: Hardware Interfacing with C	
•	Introduction The C Standard(s)	
•	Embedded C Fundamentals	
0	Fixed-Width Integers	
0	D: D : 14 : 14:	
0	The state of the s	
0	D. C.	
0	D 0 11 10 11	
0	The World Before main()	
•	Interrupt Handling	
0	Interrupt Service Routines	
0	Vector Tables	
0	Hardware Hurdles	
0	Disabling Interrupts	
0	Interrupt Latency	

#12 hours for Library work, assignments, practical or field work

Reference Books:

- Abrams, M.H. *A Glossary of Literary Terms*. Prism: Bangalore; 2004. Yashwant Kanetkar, *Let us C*, BPB publication;
- Balagurusamy, Ansi C,MC Graw Hill Eductaion,2017
- Yashwant Kanetkar, *Understanding Pointers in C*-, BPB publication 2002.
- Herbert Schildt, *The Complete Reference C*, Tata McGraw-Hill publication 3 rd edition 2008.

Recommended website:-

- https://www.sanfoundry.com/advanced-c-programming-training/
- https://www.tutorialspoint.com/cprogramming/index.htm

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