

**Course : VSC
Advance C**

Semester: II	Credits: 2	Subject Code: BCVSC22301	Lectures: 30
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Course Outcomes:

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

- CO1: Relate code organization with complex data types and structures.
- CO2: Understand the basics of Pointers
- CO3: Develop an in-depth understanding of functional and logical concepts of c language
- CO4: Evaluate the practical concepts of structure and Pointer

Unit 1: Structure and Union and Enumeration

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- Introduction to structure: Definition , Declaration , Accessing members, structure operations , nested structure.
- Union :Definition, Syntax., Working with union, Initializing union , Advantages of union, Structure versus union ,Advantages of union.
- Enumeration: Enum keyword ,typedef keyword, Working with Enum.

Unit 2: Introduction to Pointer

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- Introduction to pointer: Definition, Declaration, Initialization ,Indirection operator and address of operator, Pointer arithmetic, Dynamic memory allocation, Array with Pointer, Structure with pointer, File with pointer.

Reference Books:


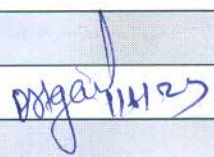
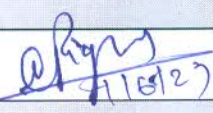
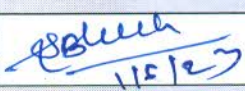
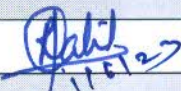
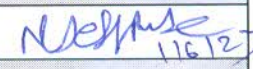
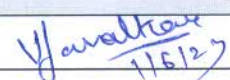
- Abrams, M.H. *A Glossary of Literary Terms*. Prism: Bangalore; 2004.
- Yashwant Kanetkar, *Let us C*, BPB publication;
- Balagurusamy, *Ansi C*, MC Graw Hill Eductaion, 2017
- Yashwant Kanetkar, *Understanding Pointers in C -*, BPB publication 2002.
- Herbert Schildt, *The Complete Reference C*, Tata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