

**Course : VSC
Advance C**

Semester: II	Credits: 2	Subject Code: BCVSC22301	Lectures: 30
---------------------	-------------------	---------------------------------	---------------------

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	15
<ul style="list-style-type: none"> • 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	15
<ul style="list-style-type: none"> • 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:


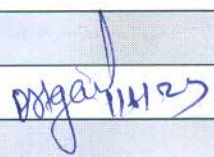
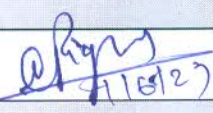
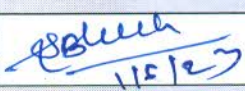
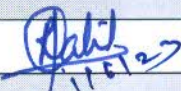
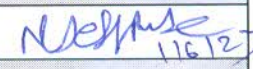
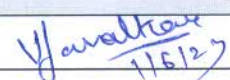
- Abrams, M.H. *A Glossary of Literary Terms*. Prism: Bangalore; 2004.
- Yashwant Kanetkar, *Let us C*, BPB publication;
- Balagurusamy, *Ansi C*, MC Graw Hill Eductaion, 2017
- Yashwant Kanetkar, *Understanding Pointers in C -*, BPB publication 2002.
- Herbert Schildt, *The Complete Reference C*, Tata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

Recommended website:-

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



Board of Studies	Department	Name	Signature
Chairperson (HoD)	BBA(CA)	Mrs. SmitaBorkar	

Board Of Studies	Name	Signature	
Chairperson (HoD)	Asst. Prof. SmitaBorkar		
Faculty	Asst Prof Deepali Gupta		
Faculty	Asst. Prof. Monika Rajguru		
Subject Expert (Outside SPPU)	Dr. Sagar Jambhorkar		
Subject Expert (Outside SPPU)	Dr. Sachin Bhoite		
VC Nominee(SPPU)	Prof. Ranjit Patil		
Industry Expert	Mr. Nilkanth Deshpande		
Alumni	Ms.Vaishanvi Javalkar		



Board of Studies	Department	Name	Signature
Chairperson (HoD)	BBA(CA)	Mrs. SmitaBorkar	