

Code: BSE-203	Second semester	Programming in C (Part-2)	Credits: 04
Course Objectives : It is general purpose and procedure oriented programming language. In which we are able to develop OS and MAC operating system, application software and programming languages. Programming Language are also used to build students logic for programming.			
Course Outcome : To describe a function, storage classes, structure, union, string and functions, Pointers, File Handling, Student are able to develop application software.			
Unit-1:	Function in C		
Functions in C, What is a function?, User defined functions, Declaration, Definition, Function calling, Types of Function			
Unit-2:	Storage Classes		
What is storage Classes, Types of Storage Classes, Call by value , Call by reference, Recursion			
Unit-3:	Strings in C		
What is String?, Declaration and initialization, Standard String library functions, Strings and pointers, Array of strings.			
Unit-4:	Pointers		
What is Pointer? Pointer declaration, initialization, Pointer to pointer, Arrays and pointers, Functions and pointers, Pointer to function, Dynamic memory allocation, Command Line Arguments			
Unit-5:	Structures and Unions		
What is Structures?, Creating structures, Accessing structure members (dot Operator), Array of structures			
Nested structures, Pointers and structures, Unions			
Unit-6:	File Handling		
What is File?, Creating File, Types of File, Operation on File, Random Access to File			
Reference Books			
1.	Complete C Reference – Herbert Schildt (Thomson learning publications)		
2.	The C Programming language – Kernighan and Ritchie		
3.	Structured Programming approach using C – Forouzan and Gilberg,		
4.	Pointer in ‘C’ Kanetkar Yashavant P. (BPB Publication)		