Syllabus of PPR (2018)
(Lecture-1, Tutorial-0, Lab-3)

Component	Unit	Topics
C1	Unit 1	Quick overview on C language
		Pointers and arrays
		Linked lists
		Dynamic tables
	Unit 2	Disjoint sets using trees
		Hashing by chaining
		Perfect hashing
		Heaps using trees
		Search algorithms for graphs (DFS & BFS)
C2	Unit 3	Balanced trees
		B-tree
		Kruskal's algorithm
		Eulerian path
		Hamiltonian cycle
	Unit 4	Shell scripts in Linux environment
		Programming in bash
		whiptail
		Automatic testing using shell scripts

Books and references
1. Pro Bash Programming by *Chris F.A. Johnson*, Apress
2. C Programming Language (Ed 2) by *Brian W. Kernighan* and *Dennis M. Ritchie*, Prentice Hall
3. Data Structures Using C and C++ by *Yedidyah Langsam, Moshe J. Augenstein* and *Aaron M. Tenenbaum*, Pearson
4. Introduction to Algorithms (Ed 3) by *TH Cormen, CE Leiserson, RL Rivest* and *C Stein*, MIT Press