

**UE19CS202: DATA STRUCTURES AND ITS APPLICATIONS (4-0-0-4)**

**Department of Computer Science & Engineering  
PES UNIVERSITY**

**# of Hours : 56**

Class #	Chapter Title/Reference Literature	Topics Covered		
			Reference Chapter	Page Numbers
38.	Unit-5: Suffix Tree , Hashing Techniques T1: Chapters 7(7.3,7.4) R1: Chapter 8(8.1,8.6) 10(10.2,10.3)	Suffix Trees: Definition, Introduction of Trie Trees, suffix trees	T1 : Chapter 7	465, 467
39.		Implementation of Trie trees-insert operations,	T2 : Chapter 10	457 - 461
40.		Implementation of Trie trees-delete and search operations.	T2 : Chapter 10	457-461
41.		Application: URL decoding		
42.		Hash: definition, hash function, hash table.	T1: Chapter 7 T2 Chapter 8	T1: 468-470 T2: 329, 345-353
43.		Collision Handling: Separate Chaining		T1:488-491 T2:345-353
44.		Collision Handling: Open Chaining		T1:471-473 T2:345-353
45.		Double hashing, Rehashing		T1:473 T2:345-353
46.		Application of hashing in Cryptography.		
47.		Summary of Data Structures.		

**Literature**

Book Type	Code	Title & Author	Publication Information		
			Edition	Publisher	Year
Text Book	T1	Data Structures using C & C++, YedidyahLangsam, Moshe J. Augenstein, Aaron M. Tenenbaum	2 <sup>nd</sup>	Pearson Education	2015

Reference Book	R1	Data Structures and Program Design in C, Robert L. Kruse, Clovis L. Tando, Bruce P. Leung	2 <sup>nd</sup>	Pearson Education	2007
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