

Changes in the meeting held on September 10, 2008

102 Discrete Structures

Chapter	Reference	Approximate Weightage
Ch 3.1 to 3.5	[1]	5
Ch 5,6	[1]	20
Ch 9, 10	[1]	10
Ch 1, 2, 3, 4, Appendix-A	[2]	20
Ch 1.2.3, 1.2.4	[3]	
Ch 1 (Except 1.2.5, 1.2.15 1.4.4)	[4]	20

*Proof of master's theorem may be explained intuitively

- [1] C.L. Liu, elements of Discrete mathematics, Tata McGraw Hill
- [2] T.H. Cormen, C.E. Leiserson, R. L. Rivest, Introduction to algorithms, Prentice Hall on India (second edition)
- [3] D. E. Knuth, The art of computer programming Vol. I: Fundamentals Algorithms, Addison Wesley.
- [4] J. P. Trembley, R. Manohar, Discrete Mathematical Structures with application to computer science, Tata McGraw Hill.

Suggested Deletions:

The following sections were not being done by the teachers in any case. The suggestion was to include these deletions formally.

1. Section 6.8 of Liu
2. Section 10.8 & 10.9 of Liu
3. Section 9.5 of Liu
4. Proof of Theorem 5.6 (Liu)

Suggested Additions:

The following sections have been suggested after some faculty members pointed out that guideline does not include Set, Relations & Functions whereas these topics have been mentioned in the syllabus.

1. Sets – Sections 1.1. to 1.6 from Liu
2. Relation - Sections 4.1, 4.3, 4.4, 4.5 (till Page no. 118, Lattices not to be covered) from Liu
3. Function - Sections 4.8 from Liu

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Guidelines for B. Sc. (H) Computer Science Semester III

301 Algorithms

Chapter	Section	Reference	Weight age
Appendix B	B.4, B.5	[I]	18
*	Analysis of Insertion Sort	[2]	
6	Complete	[I]	
7	Complete	[I]	
8	Complete	[I]	
9	Complete	[I]	10
13	Complete	[I]	
14	Complete	[I]	
15	Complete	[I]	18
16	Excluding 16.4 and 16.5.	[I]	
17	* Excluding 17.4	[I]	
18	Complete	[I]	10
19	Upto 19.1	[I]	
20	20.1, 20.2	[I]	
21	21.1, 21.2 (upto page 503) * (21.2 to be covered fully)	[I]	
22	Complete (Except proofs of theorems)	[I]	15
23	Complete	[I]	
28	28.2, 28.3.	[I]	4

[1] Thomas H.Cormen, Charles E.Leiserson, Ronald L.Rivest & Clifford Stein
Introduction to Algorithms, PHI (II Edition)

[2] Computer Algorithm – Introduction to Design and Analysis, Sarabasse & A.V.Gelder
Publisher - Pearson

* - Changed from earlier guidelines.

To be implemented with immediate effect.

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Guidelines for B. Sc. (H) Computer Science

Paper **501** (File Structures and Database Systems)

Algorithms for B and B+ trees should be taken only through examples. Detailed algorithm and Pseudocode is already been taken in Paper 201 (Data Structure)

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Paper **502** (Computer Networks)

1. Delete : SONET – (Pg. 144 to 146) from A.S.Tanenbaum IV Edition
2. Add: Bluetooth 4.6 upto 4.6.2 (Pg. 313) from Reference 1 COMPUTER NETWORKS:
A.S.Tanenbaum, 4 th edition, Pearson Edu,2003

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Paper **302** (System Software)

Ch 20 upto 20.4.1

Ch 25 upto 25.3

Ch 12 upto 12.8

Ch upto 11.10

Changes

To be implemented with immediate effect.