# B.Sc. (H) Computer Science II Semester (NEP) Discrete Mathematical Structures Planner

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| **S. No.** | **Topic** | **Month-wise schedule to be followed** | **Test/ Assignment/ Revision** |
| 1 | Unit 1 - Sets, Relations and Functions |  **1st – 3rd week of March** | **Assignment in** 3rd week |
| 2 | Unit 2 - Logic and Proofs | 4th of March to 1st week of April | **Assignment + test in 2nd week** |
|  | **Revision of unit 1 and unit 2 during 2nd week of April** |
| 3 | Unit 3 - Number Theory | 3rd- 4th week of April | Test in last week of April |
| 4 | Unit 4 - Combinatorics | 1st-2nd week of May |  Doubts during 3rd week |
| 5 | Unit 5 - Graphs and Trees | 3rd week of May till 3rd week of June  | **Assignment + test in last week** |
| 6 | Unit 6 - Recurrences | Last week of June |  |
|  | **Revision and doubt session in 1st week of June** |

**Note: 1. Exclude proofs of theorems, lemmas and corollaries.**

# Guidelines have been prepared according to soft copy of reference [2].

1. **Practical implementation to be done in either Python or C++.**

# References

1. Liu, C.L., Mohapatra, D.P. Elements of Discrete Mathematics: A Computer Oriented Approach, 4th edition, Tata McGraw Hill, 2017.
2. Rosen, K.H.. Discrete Mathematics and Its Applications, 8th edition (soft copy), Mc Graw Hill, 2018.

# Practical List:

Refer to syllabus draft on [1. DSCs\_UGCF\_CS(H)\_approved\_facultyMay25 (du.ac.in)](https://cs.du.ac.in/uploads/nep/1-DSCs_UGCF_CS%28H%29_approved_facultyMay25-updated.pdf) (page 20).