

GATE 2026 – Important Topics & Year-wise Weightage (CS & IT)

Overall Subject-wise Weightage

Subject	2025 S1	2025 S2	2024 S1	2024 S2	2023	2022
Aptitude	15	15	15	15	15	15
Engineering Mathematics	7	9	7	6	4	4
Discrete Mathematics	6	3	6	5	12	15
C & Data Structures	10	12	6	7	12	11
Algorithms	8	8	9	4	6	5
Theory of Computation	10	7	7	7	6	8
Compiler Design	6	6	6	10	5	5
DBMS	8	9	5	10	5	9
Digital Logic Design	6	9	6	5	6	5
COA	8	9	9	9	10	7
Operating System	8	7	6	8	7	10
Computer Networks	8	6	6	11	8	9

C & Data Structures

Topic	2025 S1	2025 S2	2024 S1	2024 S2	2023	2022
Operators, Data Types, Loop	2	1	1	0	0	2
Recursion, Function, Storage	4	2	2	1	3	0
Pointers	0	3	0	2	0	3
Array, Stack, Queue, Linked List	2	6	1	3	3	3
Tree & Hashing	4	2	2	1	6	2

Algorithms

Topic	2025 S1	2025 S2	2024 S1	2024 S2	2023	2022
Analysis of Algorithm	1	0	3	1	4	1
Divide and Conquer	0	0	2	1	0	0
Greedy Algorithm	2	1	0	1	0	0
Graph Algorithm	2	4	3	2	2	4

Topic	2025 S1	2025 S2	2024 S1	2024 S2	2023	2022
Dynamic Programming	0	0	0	0	0	0

Theory of Computation

Topic	2025 S1	2025 S2	2024 S1	2024 S2	2023	2022
FA & Regular Expression	5	2	4	5	2	1
Regular Language & Grammar	2	2	1	0	1	0
CFL & CFG	3	3	2	2	2	4
Turing Machine	0	0	0	0	1	1
Undecidability & Reducibility	0	0	0	0	0	2

Compiler Design

Topic	2025 S1	2025 S2	2024 S1	2024 S2	2023	2022
Lexical Analysis	1	0	0	1	1	0
Syntax Analysis	2	4	2	6	0	1
Syntax Directed Translation	0	1	2	1	2	2
Intermediate Code	2	1	0	2	0	0
Code Optimization & Runtime Env	1	0	2	0	2	2

Digital Logic Design

Topic	2025 S1	2025 S2	2024 S1	2024 S2	2023	2022
Number System	1	0	1	2	1	3
Boolean Algebra & K-Map	3	5	3	3	0	0
Combinational Circuits	0	0	2	0	3	2
Sequential Circuits	2	1	0	0	2	2

Database Management System

Topic	2025 S1	2025 S2	2024 S1	2024 S2	2023	2022
ER Model	0	0	1	1	1	0
FD & Normalization	0	0	2	2	0	3
Transaction & Concurrency	1	3	0	4	0	2
SQL & Relational Algebra	6	4	1	2	2	4

Topic	2025 S1	2025 S2	2024 S1	2024 S2	2023	2022
File Organization & Indexing	1	2	1	1	2	0