



Study Plans

SEBI Grade A

60 Days

Week 01	Topics To cover
Day 01	ER-model, Relational model: relational algebra, tuple calculus
Day 02	Integrity constraints, normal forms
Day 03	File organization, indexing (e.g., B and B+ trees)
Day 04	Transactions, and concurrency control.
Day 05	Select, view, truncate, delete, update, alter, Inner join
Day 06	different types of outer joins, use of aggregate functions, Union, intersection
Day 07	except, in and exist clauses, nested queries
Week 02	Topics To cover
Day 01	Program control (iteration, recursion, Functions), Scope of variables, Binding of variables & functions
Day 02	Parameter passing, Functional and Logic Programming, OOPS Concepts
Day 03	Inheritance, Class and object, Constructors
Day 04	Functions, Exception Handling
Day 05	Regex, Slicing, Data reshaping, Dataframes, Dictionaries, and Sets, File Management
Day 06	Classes, and Functions, Data Mining, Lists, Importing and exporting data, charts, and graphs
Day 07	Tree and graph traversals, Connected components, Spanning trees

Week 03	Topics To cover
Day 01	Cyber Attacks, Software Development Security, Network Security
Day 02	Authentication, CIA – Confidentiality, Integrity, and Availability
Day 03	Network Audit, Systems Audit
Day 04	Data Extraction, Data Cleaning, Data Transformation, Data Loading,
Day 05	Metadata, Data Cube, Data Mart, Data Models
Day 06	Shell Scripting Basics, Shell Variables,
Day 07	Shell Script Arguments, If Statement, Loop, Return, Basic UNIX commands
Week 04	Topics To cover
Day 01	4 Codes on String Manipulation[Length] , 2 Codes on data structure[Array] , 1 code on Algorithm[sorting]
Day 02	4 Codes on String Manipulation[Length] , 2 Codes on data structure[Array] , 1 code on Algorithm[sorting]
Day 03	2 Codes on String Manipulation[Substring] , 2 Codes on data structure[Linked List] , 2 code on Algorithm[searching]
Day 04	2 Codes on String Manipulation[Substring] , 2 Codes on data structure[Linked List] , 2 code on Algorithm[searching]
Day 05	4 Codes on String Manipulation[Regex] , 2 Codes on data structure[Linked List] , 1 code on Algorithm[DAC]
Day 06	4 Codes on String Manipulation[Regex] , 2 Codes on data structure[Stack] , 1 code on Algorithm[DAC]
Day 07	Mock Test

Week 05	Topics To cover
Day 01	4 Codes on data structure[Queue] , 2 code on Algorithm[DAC]
Day 02	4 Codes on data structure[Queue] , 1 code on Algorithm[Dynamic programming]
Day 03	4 Codes on data structure[Binary Tree] , 2 code on Algorithm[Dynamic programming]
Day 04	2 Codes on data structure[Binary Tree] , 2 code on Algorithm[Backtracking]
Day 05	4 Codes on data structure[Heap] , 1 code on Algorithm[Backtracking]
Day 06	2 Codes on data structure[Heap] , 1 code on Algorithm[Pattern searching]
Day 07	Mock test
Week 06	Topics To cover
Day 01	4 Codes on data structure[Matrix] , 2 code on Algorithm[DAC]
Day 02	4 Codes on data structure[Matrix] , 3 code on Algorithm[Dynamic programming]
Day 03	4 Codes on data structure[Binary Tree] , 2 code on Algorithm[Dynamic programming]
Day 04	2 Codes on data structure[Binary Tree] , 2 code on Algorithm[Backtracking]
Day 05	4 Codes on data structure[Heap] , 1 code on Algorithm[Backtracking]
Day 06	2 Codes on data structure[Heap] , 1 code on Algorithm[Pattern searching]
Day 07	Mock Test
Week 07	Topics To cover

Day 01	Mock test
Day 02	2 Codes on data structure[Hashing] , 1 code on Algorithm[Pattern searching]
Day 03	2 Codes on String Manipulation[Search] , 2 Codes on data structure[Stack] , 1 code on Algorithm[DAC]
Day 04	2 Codes on data structure[Hashing] , 4 code on Algorithm[Pattern searching]
Day 05	Mock Test
Day 06	Mock Test
Day 07	Mock Test
Week 08	Topics To cover
Day 01	Revision
Day 02	Revision
Day 03	Revision
Day 04	Revision
Day 05	Revision
Day 06	Revision
Day 07	Revision