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Subject wise Important Topics for GATE-24 selective Study

Special class

Vishvadeep Gothi • Sept 13, 2023

Subject Wise Important Topics

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Highlights

- AIR: 19, 119, 440, 682
- ME IISc Bangalore
- Mtech, BITS Pilani (Data Science)
- 16+ Years Experience

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Are You Ready??

Syllabus

GATE- CS

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Subject	Weightage (Marks)
Mathematics (EM + DM)	13
Aptitude	15
Data Structure & Programming	11-13
Algorithm	4-6
Digital Logic	4-6
Computer Organization & Arch.	9-11
Theory of Computation	7-9
Compiler Design	3-5
DBMS	4-7
OS	7-9
CN	6-8

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→ 100 % syllabus cover, notes making

→ 3-4 revision

→ Practice

→ Test

a lot of time needed

⇓

not possible in remaining time

⇓

soln ⇒ selective study prog.

job / college / exams / festivals

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① who is organizing GATE-24

⇓

IISc

⇓

last time 2016 & 2008

⇓

more weightage sub. first

⇓

- C - ds, algo
- ToC → 8-10M
- CoA - OS

② identify your scoring courses

↓

small efforts & more marks

(finish first)

③ More focus on practice

⇓

any Questn which comes from

our covered

Syllabus

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In GATE 80% Questns are asked from 60% syllabus

⇓

first make this part perfect

⇒ At the end → After test → if one type of Questns seen more

⇓

Cover those topics

COA

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Cache

Pipeline

Floating Point Arithmetic

→ Instⁿ (additional)

DS

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Tree

Hashing

Linked List

C-Programming → small course 20-25 hours

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Recursion & Functions	Storage Classes	Array	Pointers

Algorithms

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Complexity	Sorting Algorithms	Heap

TOC

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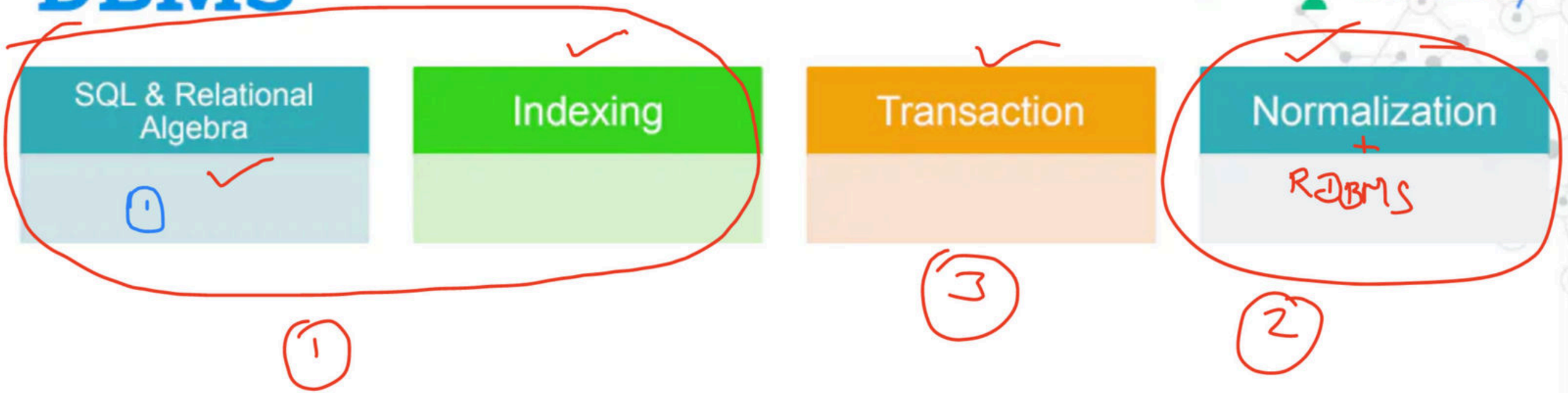
Finite Automata

Regular Expression

More
→ Practice

DBMS


SQL & Relational Algebra
Indexing
Transaction
Normalization
+
RDBMS
1
3
2

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OS

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1 Questh

Memory Management

& virtual memory

1 Qn

Process Synchronization & Deadlock

1 Qn

CPU Scheduling

Discrete Math

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Graph Theory	Sets	Functions	Logic	Relation

Digital Logic

number system

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K-Map	Minimization	Combinational Circuits

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Computer Network (last)

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IP Addressing	Routing Protocols	TCP/IP Headers	Basics of CN

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Compiler Design → 30 hours (small course)

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Parsing

Syntax Analysis

Semantic Analysis (SDT)

Liveness analysis

Math

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Probability	Linear Algebra	Limit
1 Q.	matrix 1 Q	

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VDEE P10

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*T&C apply, as available on the platform.

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Standard Books

Data Structure Books

1. Schaum’s Outline
2. Narsimha Karumachi

Algorithm

1. Sahani
2. Corman

Programming

1. Test your C-skills – ‘Y. Kanitkar’
2. Balagurusami

COA

1. Hamacher
2. Paul Chaudhury
3. J.P. Hayes

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OS

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1. Galvin
2. William Stallings

DBMS

1. Korth
2. C.J. Dates
3. Navathe

CN

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1. Data Communication – ‘Forouzan’
2. TCP/IP Protocol Suit – ‘Forouzan’
3. Tanenbaum

TOC

1. Peter Lintz
2. Chandrashekaran & KLP Mishra
3. Ulman

Compiler Design

1. Aho Ulman

Discrete Math

1. C. L Liu
2. Schaum's Outline
3. Graph Theory - Narsingh Deo

Digital Logic

1. Morris Mano
2. R.P. Jain

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Happy Learning

Thank you