

CS : Computer Science & Information Technology

Section 1 : Engineering Mathematics

Discrete Mathematics :

* Propositional and first order logic :

Predicate & Quantifiers

★ Tautology, Contradiction & Contingency

Inference Rule

* Conversion of English Sentences into Logical Expression

(CS)

13 Marks

Discrete $\leftarrow 8 + 5$

Set Theory :

Relations & Types of relations

Functions & Their Types *

Equivalence & Poset relations

* Lattice & Distributive lattice

Boolean Algebra

TM

Solve 20-25 Yrs PYQ
that's enough!

Graph Theory & Group Theory :

Handshaking Lemma & Types of Graphs

Euler & Hamiltonian path

Planner Graph & Graph Coloring *

Connectivity & matching

Properties of Group ** 1 Mark

Cyclic group & Properties

Abelian group

Monoids → New word → Less important → No Tension

Combinatorics :

1 Mark Permutation & Combination

Combination with repetition

* Recurrence relations & Generating Functions

Solve ALL PYQ's
MUST

If have Enough Time
read Standard books -
Rosen + Garry
for Discrete

Linear Algebra :

Matrices → Types of Square Matrix

Determinants → Property 5*

System of linear equations

Eigenvalues and eigenvectors → easy 5*

LU decomposition.

2-3 Marks

demands practice!

But Easy!

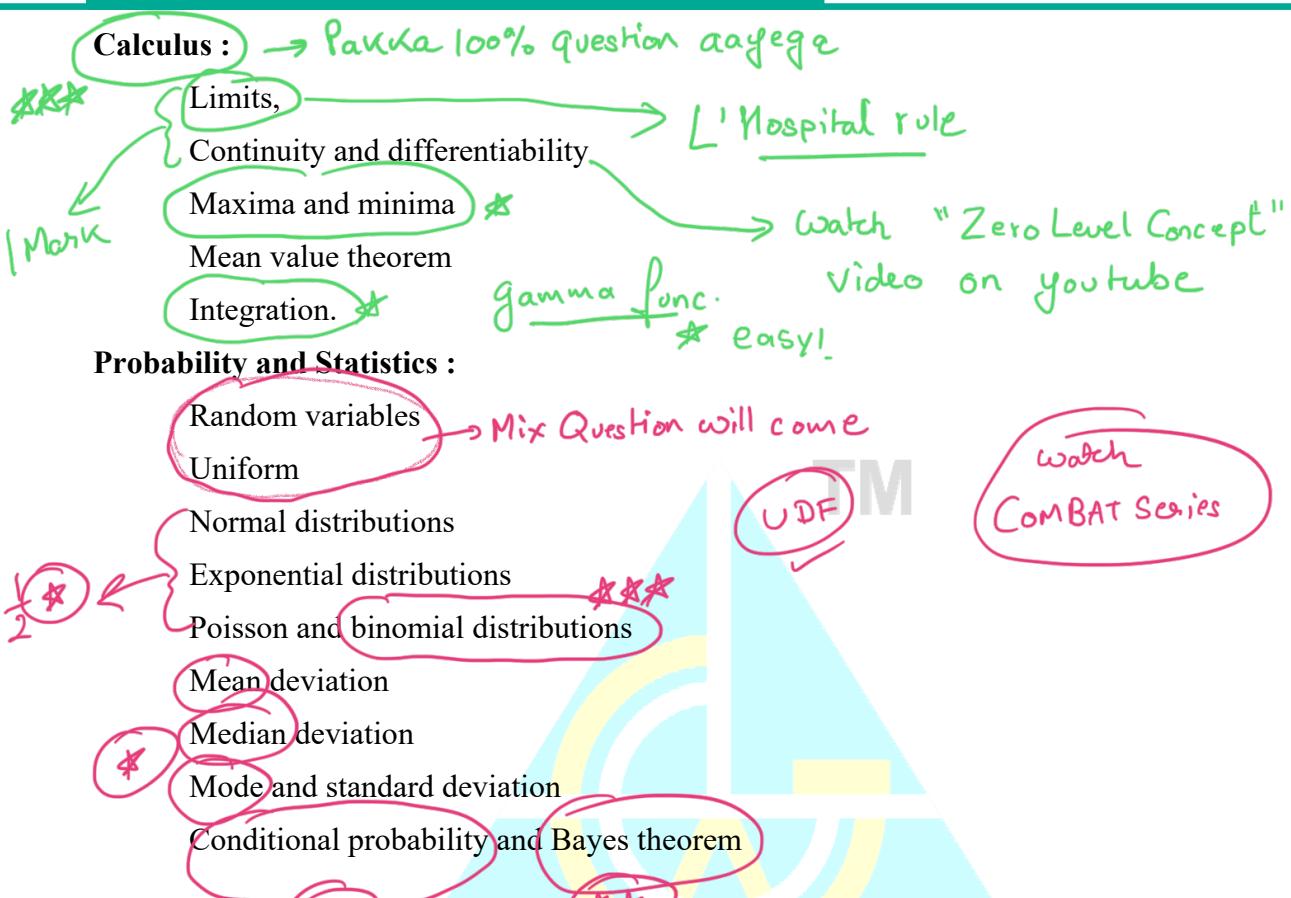
Only for
3rd Yr Students

! Must watch
• COMBAT series
on YouTube

For 2021, will come
on November

Rank of
Matrix

1 Q will DEFINITELY COME GATE 2021



G A T E

Since 2004



All the Best!

Easy!