TCS Syllabus

Numerical Ability:

- Arrangements and Series
- P&C
- Number System, LCM & HCF
- Percentages
- Allegations and Mixtures
- Speed Time and Distance
- Geometry
- Probability
- Ratios, Proportion, and Averages
- Reasoning
- Work and Time
- Divisibility
- Profit and Loss
- Ages
- Clocks & Calendar
- Series and Progressions
- Equations
- Averages
- Area, Shapes & Perimeter
- Numbers & Decimal Fractions

Verbal Ability:

- Synonyms
- Antonyms
- Prepositions
- Sentence Completion
- Active and Passive Voice
- Idioms and Phrases
- Spelling Test
- Spotting Errors
- Passage Completion
- Substitution
- Sentence Arrangement
- Transformation
- Sentence Improvement
- Para Completion
- Joining Sentences

- Error Correction (Underlined Part)
- Error Correction (Phrase in Bold)
- Fill in the blanks

Reasoning Ability:

- Meaningful Word Creation
- Number Series – Missing Number Single, Missing Number Analogy
- Data Sufficiency – Rank Based Logic, Ages
- Blood Relations
- Coding-Decoding
- Ages
- Odd Man Out – Numbers, Logical
- Distance and Directions
- Statement and Conclusion
- Seating Arrangement (Easy)
- Seating Arrangement (Complex)
- Analogy
- Mathematical Operational Arrangement
- Symbols and Notations

Programming:

- Programming Logic
- Data Types
- Input-Output (based on C)
- Functions and Scope
- Inbuilt Libraries (based on C)
- Variables and Registers
- Command Line Programming
- Pointers
- Call by value/ reference
- Encapsulation
- Virtual and Pure Virtual
- Constructor and Destructor
- Iteration
- Recursion
- Procedural Vs OOPs
- Classes and Objects
- Inheritance
- Abstraction
- Polymorphism

- Stacks
- Queues
- Linked Lists (Singly, Doubly, Circular)
- Trees
- Binary Search Trees
- Graphs (only basics)
- Searching
- Sorting
- Hashing
- AVL Trees
- B Trees

Hands-on Coding:

- C++
- Java
- C
- Perl
- Python