

Training Summary

Year	Duration	Quantitative Aptitude	Logical Reasoning	Verbal AbilitySoft Skills	Technical Training
FY SEM-I	40 Hours	04 Hours	04 Hours	14 Hours	18 Hours
FY SEM-II	40 Hours	06 Hours	06 Hours	14 Hours	14 Hours
SY SEM-I	40 Hours	08 Hours	08 Hours	10 Hours	14 Hours
SY SEM-II	40 Hours	10 Hours	08 Hours	08 Hours	14 Hours
TY SEM-I	40 Hours	12 Hours	08 Hours	06 Hours	14 Hours
TY SEM-I	40 Hours	12 Hours	08 Hours	04 Hours	16 Hours
B.Tech	80 Hours	20 Hours	20 Hours	12 Hours	28 Hours
Total	(320 Hours)	72 Hours	62 Hours	68 Hours	118 Hours



Phone.
+91 9172221773



Website.
www.shikuyaa.com



Address.
S. No. 2/30/11, Datta Colony,
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Sangli – 416410
CIN : U80902PN2021PTC201188

Content Details

FY SEM-I

Part	Quantitative Aptitude	Logical Reasoning	Verbal Ability Soft Skills	Technical Training	Total
Duration	04 Hours	04 Hours	14 Hours	18 Hours	(40 Hours)

UNIT-I: Learning Basic Aptitude 04 Hrs

Module-1: Percentage

Module-2: Average & Its Applications

UNIT-II: Series Completion 04 Hrs

Module-1: Number Series

Module-2: Letter Series

Module-3: Alphanumeric Series

UNIT-III: LSRW-I 05 Hrs

Module-1. Listening Introduction & Activities

Module- 2. Speaking Introduction & Activities

Module-3. Reading Introduction & Activities

Module-4. Writing Introduction



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UNIT-IV: Career Management-1

05 Hrs

Module-1: SWOT Analysis

Module-2: Goal Setting(Why & How of SMART goals)

Module-3: Personality Traits & Self Assessment
Module-4: Competency Mapping

UNIT-V: Interpersonal Skills

04 Hrs

Module-1: Team Management

Module-2: Attitude Building

Module-3: Time Management

UNIT VI: Technical Training

18 Hs

Module-1: Introduction to C Language Module-2:

Identifiers & Data types, Operations

Module-3: Control Instructions, Function, Recursion

Module-4: Array, Strings, Pointers

Module-5: Structure & Union

Module-6: Memory Allocation

Module-7: Enumeration, Pre-processor

Module-8: Command Line Arguments



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FY SEM- II

Part	Quantitative Aptitude	Logical Reasoning	Verbal Ability Soft Skills	Technical Training	Total
Duration	06 Hours	06 Hours	14 Hours	14 Hours	(40 Hours)

UNIT-I: Learning Basic Aptitude

06 Hrs

Module-1: Ratio & Proportion

Module-2: Mixture & Alligation

Module-3: HCF & LCM

UNIT-II: Logical Reasoning

06 Hrs

Module-1: Blood Relations

Module-2: Seating Arrangement

Module-3: Pattern Completion

UNIT-III: Functional English

10 Hrs

Module-1: Spotting Errors, Sentence Correction/ Sentence Improvement

Module-2: Sentence completion

Module-3: Sentence Formation/ Ordering of words

Module-4: One word Substitution

Module-5: Para jumbles



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UNIT-IV: Attitude Building-I

Module-1. Focus & Discipline

Module-2. ASK Model- Corporate Expectations

Module-3. Change Management (Changing & Developing habits)

UNIT-V: Technical Training

14 Hrs

Module-1: C++ Introduction-History of C++,C++ specifications and keywords, Data type and its type, type modifiers and qualifiers,Structure in C/C++, access specifier, Memory Allocation Functions-simple programs.

Module-2: Creating Classes and Objects-Access Specifiers,Constructor,Types of Functions Member Functions-Internally Defined, Externally Defined,Inline Function,Friend Function Virtual Function Introduction,Nesting of Member Functions

Module-3 - Functions-Function Arguments- Call by Value, Call by Reference,Object as FunctionArgument, Array of Objects

Module-4-Constructor and Destructor

Constructor Types-Default, Parameterized, Copy Constructor,Destructor,Concept of PointersShallow Copy,Deep Copy

Module-5- Exception Handling-Static members,Static functions,Exception Handling



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SY SEM-I

Part	Quantitative Aptitude	Logical Reasoning	Verbal Ability Soft Skills	Technical Training	Total
Duration	08 Hours	08 Hours	10 Hours	10 Hours	40 Hours

UNIT-I: Learning Business Aptitude 04 Hrs
 Module-1: Profit & Loss
 Module-2: Simple Interest & Compound Interest

UNIT-II: Advanced Aptitude 04 Hrs
 Module-1: Time, Rate & Work, Pipes & Cisterns
 Module-2: Factors & Cyclicity
 Module-3: Concept of Last Two Digit

UNIT-III: Logical Reasoning 08 Hrs
 Module-1: Syllogism
 Module-2: Complex Arrangement
 Module-3: Direction Sense Test



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UNIT-IV: Speaking Skills-I

06 Hrs

Module-1-Phonetics

Module-2-Introduce yourself Module-

3- Situation based Role play

Module-4. Organising Thoughts and Extempore-JAM,J3M,J5M

Module-5. Telephonic Conversation and etiquettes

UNIT-V:Attitude Building-II

04 Hrs

Module-1-Creative,Critical & Analytical thinking

Module-2-Stress Management

Module-3-Conflict Management

Module-4-Emotional Management

UNIT-VII: Technical Training

10 Hrs

Module-1: Inheritance introduction,Defining Derived Class,Visibility Modes/Access Specifiers

Hierarchy and its type, Association, composition & aggregation,Types of Inheritance Constructors in Derived classes.Types of Inheritance,Constructors in Derived classes Module-2: Inheritance -Single Inheritance,Multilevel Inheritance,Multiple Inheritance.

Module-3: Inheritance-Hybrid Inheritance, Hierarchical Inheritance, Diamond Problem Module-

4: Polymorphism -Types of Polymorphism,Types of Bindings,Compile Time

Polymorphism,Function Overloading,Constructor Overloading

Module-5: Polymorphism -Operator Overloading,Operator Overloading using Friend Function



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SY SEM-II

Part	Quantitative Aptitude	Logical Reasoning	Verbal Ability Soft Skills	Technical Training	Total
Duration	10 Hours	08 Hours	08 Hours	10 Hours	06 Days (36 Hours)

UNIT-I: Learning Relative Speed

06 Hrs

Module-1: Speed Time Distance

Module-2: Races, Boats Streams & Trains

UNIT-II: Advanced Aptitude

04 Hrs

Module-1: Geometry

Module-2: Mensuration

UNIT-III: Logical Reasoning

08 Hrs

Module-1: Pattern Completion, Water, Mirror Image completion

Module-2: Clocks & Calendars

Module-3: Input & Output



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UNIT-IV: Group Communication

04 Hrs

Module-1:Group Discussion

Module-2:Group Activities

Module-3:Debate

Module-4:Mock GDs

UNIT-V: Presentation Skills

04 Hrs

Module-1-Grooming and Etiquettes

Module-2-Presentation Techniques

UNIT-VII: Technical Training

14 Hrs

Module-1: Runtime Polymorphism,Virtual function and function overriding, Virtual Function Table and Virtual Function Pointer

Module-2:Polymorphism-Pure virtual function, abstract class and interface, Early vs Late Binding Module-3: Template -Function template & class template

Module-4: Advanced C++-RTTI.Advanced typecasting operators.,STL introduction. Manipulators.



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TY SEM-I

Part	Quantitative Aptitude	Logical Reasoning	Verbal AbilitySoft Skills	Technical Training	Total
Duration	12 Hours	08 Hours	06 Hours	14 Hours	40 Hours

UNIT-I: Learning Combinatorics

06 Hrs

Module-1: Permutation & Combination

Module-2: Probability

Module-3: Set Theory

UNIT-II: Advanced Aptitude

04 Hrs

Module-1: Data Interpretation

Module-2: Data Sufficiency

UNIT-III: Logical Reasoning

08 Hrs

Module-1: Pattern Completion, Water, Mirror Image completion

Module-2: Clocks & Calendars

Module-3: Input & Output



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UNIT-IV: Reading Activities

06 Hrs

Module-1:Read & Write

Module-2:Read & Answer the questions (Reading Comprehension)

Module-3:Read & Summarize

UNIT-V: Technical Training

14 Hrs

Module-1: Introduction to Data Structures-Tower of Hanoi,Linked List,Reverse a Linked List Doubly

Linked List,Insertion at start of Doubly Linked List

Module-2: Insertion after node in Doubly Linked List, Search in Doubly Linked List,Deletion of first node in Doubly Linked List, Deletion of last node in Doubly Linked List,Deletion of Intermediate node in Doubly Linked List

Module-3: Stack-Polish notation,Infix to Postfix Algorithm,Evaluation of Postfix Expression Module-

4: Que-Double Ended Queue,Array implementation of Queue

Module-5: Tree- Binary Tree, Representation of Binary Tree, Preorder,Inorder, Postorder, Level Order Traversal of Binary Tree, Binary search tree. Insertion & Deletion in binary search tree.

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TY SEM-II

Part	Quantitative Aptitude	Logical Reasoning	Verbal AbilitySoft Skills	Technical Training	Total
Duration	12 Hours	08 Hours	04 Hours	16 Hours	40 Hours

UNIT-I: Revising & Practicing Aptitude 12 Hrs

Module-1: Basic Aptitude Module-

2: Business Aptitude Module-3:

Relative Speed & TRW

Module-4 : Geometry & Mensuration

UNIT-II: Revising Logical Reasoning 08 Hrs

Module-1: Blood relations, Coding Decoding, Direction Sense

Module-2: Seating & Complex Arrangements

Module-3: Series Completion, Pattern completion, Syllogism

UNIT-III: Resume & Interview 04 Hrs

Module-1: Drafting an Impressive Resume Module-2:

Interview Techniques (Technical & HR)



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Module-1: AVL Tree, Rotations in AVL Tree, Heap, Insertion and Deletion in Heap, Threaded Binary Tree, M way search Tree, B Tree

Module-2: Linear Search in Data Structure, Binary Search in Data Structure, Hashing, Hash Functions, Collision resolution in hashing,

Module-3: Bubble sort, Modified Bubble sort, Selection sort, Insertion sort, Quick sort, Heap sort, Merge sort, Graphs Introduction, Representation of Graphs, Counting sort

Python_1. Python 3 Tutorial

Python_2. Core Concepts

Python_3. Python OOP Python_4.

Python Thread Python_5. Socket

Programming

Python_6. Python PyQt5 Core Concepts Python_7.

Tinker Python GUI Core Concepts Python_8. Python

Unit Testing with Pytest Python_9. Python Pandas

Python_10. Python Natural Language Toolkit

Python_11. Python Libraries



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Python_11. Python Libraries_1. Matplotlib

Python_11. Python Libraries_2. Scikit Learn

Python_11. Python Libraries_3. Open CV Python

Python_11. Python Libraries_4. Python Numpy

Python_12. Python Frameworks

Python_12. Python Frameworks_1. Python Django

Python_12. Python Frameworks_2. Python Flask

Python_12. Python Frameworks_3. Python Kivy

Python_13. Competitive Programming Using Python



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B.Tech Final

Part	Quantitative Aptitude	Logical Reasoning	Verbal Ability Soft Skills	Technical Training	Total
Duration	20 Hours	20 Hours	12 Hours	28 Hours	80 Hours

UNIT-I: Company Specific Revision	20 Hrs
Module-1: Revision of Aptitude,	
Module-2: Revision of Reasoning Ability	
Module-3: Revision of Verbal Ability	
Module-4 :Practice test & explanation	
UNIT-II: Wipro Specific Tests & Explanation	20 Hrs
Module-1: Revision, Test-1 & Explanation	
Module-2: Test-2 & Explanation	
Module-3: Passage writing/ Essay writing	
UNIT-III: Capgemini Specific Tests & Explanation	12 Hrs
Module-1: Test-1	
Module-2: Test-2	
Module-3: Test-3	



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UNIT-IV: Technical Training

28 Hrs

Module-1: Previously Asked Codes from TCS practice & Explanation

Module-2: Previously Asked codes from Hackathon, Infytq & Codevita practice & explanation

Module-3: Mini Project on C/CPP/Python



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