

Training Modules for 1st sem for 30 hours

Soft Skill Training Modules (30 hours out of 30 hours)	
<i>Soft Skills</i>	• Neuro – Linguistic Programming Techniques • Power of Thinking Big • Techniques to overcome Inhibition • Emotional Intelligence • Confidence / Trust Enhancement • Design Thinking and Lateral Thinking • Staying in Charge • Industry Expectation • 6 Thinking Hats • Career Roadmap Planning • Email Writing • Change Management
<i>Execution & outcome</i>	• Every day there will be a test conducted after the topic is done there will be a test to measure the improvement • Books with homework and formulae will be provided Important questions which appeared in various company based tests and also competitiveness exams will also be provided

Training modules for 2nd Semester Students – 30 hours

Communication Skills Modules (30 hours out of 30 hours)	
<u>Communication skills</u>	• Assertive Communication • Learning Skills • Managerial Skills • Effective Communication • Public Speaking • Organising Speech • Critical thinking • LSRW • Business communication • Managing conflicts • Communication – Power of Convincing
<u>Execution & outcome</u>	• Every day there will be a test conducted after the topic is done there will be a test to measure the improvement • Books with homework and formulae will be provided Important questions which appeared in various company based tests and also competitiveness exams will also be provided

Training modules for 3rd Semester Students – 30 hours

Quantitative Aptitude Modules Description (18 hours out of 30 hours)	
Quantitative Aptitude	· Percentage · Problems on Ages · Averages · Time speed and distance · Profit and loss · Problems on trains boats and streams

Verbal Reasoning Training Modules with Description (6 hours out of 30 hours)	
Verbal Reasoning	· One word Substitution + Jumbled sentence · Parts of speech · Subject verb agreement

Logical Reasoning Modules (6 hours out of 30 hours)	
Logical Reasoning	· Data Interpretation · Odd man out + analogy · Seating arrangement

Training modules for 4th Semester Students – 30 hours

Quantitative Aptitude Modules Description

(15 hours out of 30 hours)

Quantitative Aptitude	· Permutation and Combination · Probability · Mensuration · Pipes and Cisterns · Problems on boats and streams · Mixture and allegation · Surface area & Volume
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Logical Reasoning Training Modules with Description

(10 hours out of 30 hours)

Logical Reasoning	· Syllogism · Clocks and Calendars · Seating arrangement · Visual Reasoning
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Verbal Reasoning Training Modules with Description

(5 hours out of 30 hours)

Verbal Reasoning	· Direct Indirect Speech · Active voice and Passive voice · Sentence correction · Para Jumbles · Change in voice · Reading comprehension
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Training modules for 5th Semester Students – 40 hours

Quantitative Aptitude Modules Description (10 hours out of 40 hours)	
Quantitative Aptitude	· Races and Games · Time speed and distance formula based · Compound interest · Cubes and cuboids · Simple interest

Logical Reasoning Training Modules with Description (4 hours out of 40 hours)	
Logical Reasoning	· Analytical puzzles · Blood Relations

Verbal Reasoning Training Modules with Description (2 hours out of 40 hours)	
Verbal Reasoning	· Sentence Structures

Java Modules (24 hours out of 40 hours)	
Java Language	• Introduction to Java and Core JAVA programming • OOPS Concept • Java Inheritance and Polymorphism • Packages+ Statics • Java Abstraction • Java String, Exception Handling • Exceptions in JAVA+ Input Output in JAVA

	• Multithreading, I/O • Interfaces and Objects • Java Thread and AWT/Events • Overloading and overriding in Java • Java Swings • Applets • Introduction to web technologies+ Client Server Scripting Languages
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Training modules for 6th Semester CS & IS Students – 40 hours

CS & IS Language Modules (40 hours out of 40 hours)	
Java and Strings, DBMS	• Data Structures □ Arrays, □ • Strings, □ Queues, □ Linked List, □ • Trees, Graphs. □ Algorithms □ Sorting, □ • searching, □ Backtracking and other algorithms, □ Divide and conquer, □ • Dynamic programming, Graphs: DFS, BFS, MST, Greedy, Heap, Balanced Trees, □ • Java and C++ programming and concepts □ • OOPS concepts, □ exception handling, □ • Abstract Classes and Interfaces • DBMS □ DDL, □ DML, □ DCL, □ • ER and Relational Models, □ • Normalization, □ Queries □ Operating System □ Deadlock, □ • Synchronization, □ • Process and Threads, □ • Scheduling, □ Memory Management

Modules for Electronics & Communication (40 hours)

EC Specific VLSI & Embedded Systems

- Data Structures □ Arrays, □
- Strings, □ Queues, □ Linked List, □ **ARM**
- 1) Introduction to ARM
- 2) ARM Architecture
- 3) Programming model
- 4) Pipelining and Interrupt s
- **Embedded System -**
- Keil
- Introduction to Keil IDE
- Basic Programming in Assembly and Embedded C.
- Arduino
- Introduction to Arduino
- Programming in Embedded C.
- **Microcontroller VLSI**

Modules for Mechanical Students (40 hours)

Solid Works Specific modules

- Section A: Basics & Introduction
- Graphic User Interface
- System requirements
- Parametric design
- Basic part modelling
- Feature based modelling File Management
- Managing SolidWorks environment
- Section B: Sketching with SolidWorks
- 2D Sketching
- Sketching entities and relations
- Editing & its features
- Dimensions

	• Sketch tool • Mirror, Convert entity • Move & Copy • Section C: Part Modeling • Part Modelling • Extrude and Cut extrude • Revolve and Sweep • View toolbar • Creating Reference geometries • Fillet and Chamfer • Hole wizard • Calculating weight/mass & other
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Modules for Civil (40 hours)	
Civil Riveting Specific modules	Chapter 1: Introduction to BIM and Autodesk Revit - 1.1 BIM and Autodesk Revit - 1.2 Overview of the Interface - 1.3 Starting Projects - 1.4 Viewing Commands Chapter 2: Basic Drawing and Modify Tools - 2.1 Using General Drawing Tools - 2.2 Editing Elements - 2.3 Working with Basic Modify Tools - 2.4 Working with Additional Modify Tools Chapter 3: Setting Up Levels and Grids - 3.1 Setting Up Levels



- 3.2 Creating Structural Grids

- 3.3 Adding Columns

- 3.4 Linking and Importing CAD Files

Chapter 4: Modelling Walls

- 4.1 Modelling Walls

- 4.2 Modifying Walls

Chapter 5: Working with Doors and Windows

- 5.1 Inserting Doors and Windows

- 5.2 Loading Door and Window Types from the Library

- 5.3 Creating Additional Door and Window Sizes

Chapter 6: Working with Curtain Walls

- 6.1 Creating Curtain Walls

- 6.2 Adding Curtain Grids

- 6.3 Working with Curtain Wall Panels

- 6.4 Attaching Mullions to Curtain Grids

Chapter 7: Working with Views

- 7.1 Setting the View Display

- 7.2 Duplicating Views

- 7.3 Adding Callout Views- 7.4 Elevations and Sections

Chapter 8: Adding Components

- 8.1 Adding Components

- 8.2 Modifying Components

Chapter 9: Modelling Floors

- 9.1 Modelling Floors

- 9.2 Creating Shaft Openings

- 9.3 Creating Sloped Floors

Chapter 10: Modelling Ceilings

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10.1 Modelling Ceilings

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10.2 Adding Ceiling Fixtures



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10.3 Creating Ceiling Soffits
Chapter 11: Modelling Roofs
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11.1 Modelling Roofs
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11.2 Creating Roofs by Footprint
-
11.3 Establishing Work Planes
-
11.4 Creating Roofs by Extrusion
-
11.5 Creating Dormers
Chapter 12: Modelling Stairs, Railings, and Ramps
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12.1 Creating Component Stairs
-
12.2 Modifying Component Stairs
-
12.3 Working with Railings
-
12.4 Sketching Custom Stairs
-
12.5 Creating Ramps
Chapter 13: Creating Construction Documents
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13.1 Setting Up Sheets
-
13.2 Placing and Modifying Views on Sheets
-
13.3 Printing Sheets



Chapter 14: Annotating Construction Documents

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14.1 Working with Dimensions

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14.2 Working With Text

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14.3 Adding Detail Lines and Symbols-

14.4 Creating Legends

Chapter 15: Adding Tags and Schedules

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15.1 Adding Tags

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15.2 Adding Rooms and Tags

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15.3 Working with Schedules

Chapter 16: Creating Details

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16.1 Setting Up Detail Views

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16.2 Adding Detail Components

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16.3 Annotating Details

16.4 Keynoting and Keynote Legends

Training modules for 7th Semester Students –50 hours

Quantitative Aptitude Modules Description

(10 hours out of 50 hours)

Quantitative Aptitude	· Percentages · Time and work · Venn diagrams · Series progression · Mixtures and allegation
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Logical Reasoning Training Modules with Description

(4 hours out of 50 hours)

Logical Reasoning	· Letters and number series +Odd man out · Data arrangement
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Verbal Reasoning Training Modules with Description

(4 hours out of 50 hours)

Verbal Reasoning	· Tenses and One word substitution · Closet test + Idioms and Phrases
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Python Modules (16 hours out of 50 hours)

Python	• Introduction to python • Origin of Python • Introduction to Python and what is Python • Python Identifiers • Python Origin+ Python Identifiers and Keywords • Python Data Types-1 -> int, float, complex, Bool, str, bytes,
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SEVENTH SENSE

Talent Solutions

bytearray

- Python Data Types-2 -> list, tuple, range, set, frozenset, dict, none
- Print(), type() and id()
- Operators
- Conditional Statements and looping statements
- Functions
- Object Oriented features, Creating class, constructors, instance variables
- File Handling
- Data base Programming
- Handling Exceptions
- User-defined Exceptions
- Classes
- Class Definition, objects
- Class , instance, method objects
- Inheritance and Lambda expressions
- Iterators and generators
- Virtual Environments and Packages
- Creating Virtual Environments
- Managing Packages with pip
- Standard Library/ Modules
- Managing Packages with pip
 - Regular expressions

Technical training Modules (16 hours out of 60 hours)	
<i>Technical</i>	• Data Types, File handling, arrays • Greedy Algorithm, • Stack, Queue • Mapping Concepts • Array manipulation, String manipulation, Tree • Dynamic Programming, Back Tracking, Graph
<i>Execution & outcome</i>	• Every day there will be a test conducted after the topic is done there will be a test to measure the improvement • Books with homework and formulae will be provided • Important questions which appeared in various company based tests and also competitiveness exams will also be provided