

## **CST SDP SYLLABUS**

### **1<sup>ST</sup> SEMESTER:**

<b>Subject Code :</b> IVC102	<b>Category :</b> Mandatory & Industry Value Added Course
<b>Subject Name :</b> Competitive Aptitude Training-I	<b>Semester :</b> 1st
<b>L-T-P :</b> 2-0-0 (Total Contact Hrs. 2)	<b>Credit:</b> 0
<b>Pre-Requisites:</b> Basic & fundamental knowledge of mathematics up to class 10 <sup>th</sup> standard, Logical & Analytical skill.	

### **Course Objective:**

1. To improve verbal ability skill and communicative skill of the students.
2. To enhance the analytical skill and problem solving skill of the students.
3. To make them prepare for various public and private sector exams & placement drives.

### **Course Outcome:**

1. It will improve verbal ability skill among students.
2. Students will communicate effectively & appropriately in real life situation.
3. It will enhance students problem solving skill.
4. Students will be able to prepare for various public and private sector exams & placement drives.

### **Course Content:**

<b>Module No.</b>	<b>Description</b>	<b>Hours</b>	<b>Blooms Level</b>	<b>PO(1..12) Mapping</b>
1.	<b>Objective English-1</b> Introduction of Parts of speech, What is noun, Kinds of Noun, Rules & Application, Definition of Pronoun, Examples, Rules & Application, Definition of Verb, Kinds of Verb, Rules & Application, Definition of Tense, Different types of Tenses, Examples, Rules & Application, Definition of Adjective, Kinds of Adjective, Rules & Application, Definition of Adverb, Kinds of Adverb, Rules & Application, Definition of Preposition, Examples, Rules & Application, Definition of Interjection, Examples, Rules & Its Application, Definition of Conjunction, Examples, Rules & Application, Different types of Articles, Examples, Rules & Application English Grammar. <b>News paper reading:</b> The Hindu & Economic Times.	28	L1 (Remember) L2 (Understand) L3 (Apply)	PO1,PO2, PO10

2.	<b>Data Interpretation level-I</b>	20	L1 (Remember) L2 (Understand) L3 (Apply)	PO1,PO2, PO10
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### **Learning Resources:**

#### **Text Books:**

1. Objective English- Arihant Publications
2. Data Interpretation - R.S Agarwal
3. Objective English Grammar- Kiran Publications

## **2ND SEMESTER:**

<b>Subject Code :</b> IVC202	<b>Category :</b> Mandatory & Industry Value Added Course
<b>Subject Name :</b> Competitive Aptitude Training-II	<b>Semester :</b> 2nd
<b>L-T-P :</b> 2-0-0 (Total Contact Hrs. 2)	<b>Credit:</b> 0
<b>Pre-Requisites:</b> Basic & fundamental knowledge of mathematics up to class 10 <sup>th</sup> standard, Logical & Analytical skill.	

### **Course Objective:**

1. To improve verbal ability skill and communicative skill of the students.
2. To enhance the analytical skill and problem-solving skill of the students.
3. To make them prepare for various public and private sector exams & placement drives.

### **Course Outcome:**

1. Students will learn advance tricky approaches for solving Quant.
2. It will enhance student's skill to appear in various aptitude test within limited time constrain.
3. This module will enhance students' Analytical skill & will also improve quick decision-making skill.
4. Students can prepare various competitive exams and different placement aptitude test as well.

### **Course Content:**

<b>Module No.</b>	<b>Description</b>	<b>Hours</b>	<b>Blooms Level</b>	<b>PO(1..12) Mapping</b>
1.	<b>Quantitative Aptitude:</b> 1) <b>Average-</b> Concept on average, different missing numbers in average estimation, shortcuts & their application. 2) <b>Mixture &amp; Allegation</b> – Proportion & mixtures in percentages, populations & liquids, shortcuts & their application. 3) <b>Time &amp; Work-</b> Basic concept, Chain rule, formulae & their application. Pipes & cistern. 4) <b>Time and distance</b> - Basic concept, Different problems & their shortcut tricks. Time & Speed & Tides- concept of speed, time & Distance, relative speed, Upstream & Downstream, formulae & their application.	16	L1 (Remember) L2 (Understand) L3 (Apply)	PO1,PO2, PO10
2.	<b>Logical Reasoning:</b>	10	L1 (Remember)	PO1,PO2,P

	1) <b>Cube-</b> Dice, Miscellaneous Problems 2) <b>Data Sufficiency-</b> a) Problems on Blood Relation, ages, Numbers b) Logical Test Based on Data Sufficiency 3) <b>Non Verbal Reasoning-</b> a) Image Formation b) Water –Images c) Mirror Image d) Image completion e) Paper Cutting And Folding		L2 (Understand) L3 (Apply)	O10
3.	<b>Objective English-2</b> 1) <b>Clauses:</b> Definition, Examples, Rules & Application, Types of Sentences (Simple +Complex +Compound) Examples, Rules & Application, Voice- Concept, Types, Examples, Rules & Application, Narration Change- Rules (Direct & Indirect Speech) 2) <b>Vocabulary:</b> Synonyms, Antonyms with examples, One word Substitution, Idioms & Phrases 3) <b>Spotting Errors:</b> 4) <b>Reading Comprehension:</b> ( Level II )	12	L1 (Remember) L2 (Understand) L3 (Apply)	PO1,PO2,P O10
4.	<b>Data Interpretation level-II</b> <b>News paper reading: The Hindu &amp; Economic Times</b>	10	L1 (Remember) L2 (Understand) L3 (Apply)	PO1,PO2,P O10

### **Learning Resources:**

#### **Text Books:**

1. Fast Track Arithmetic- Rajesh Verma
2. Verbal& non-verbal reasoning- R.S Agarwal
3. Quantitative Aptitude- R.S Agarwal
4. Analytical Reasoning –Peeyush Bhardwaj

### **3RD SEMESTER:**

<b>Subject Code :</b> IVC302	<b>Category :</b> Mandatory & Industry Value Added Course
<b>Subject Name :</b> COMPETITIVE APTITUDE TRAINING-III	<b>Semester :</b> 3rd
<b>L-T-P :</b> 2-0-0 (Total Contact Hrs. 2)	<b>Credit:</b> 0
<b>Pre-Requisites:</b> Basic Mathematics, General English from primary to high school.	

#### **Course Objective:**

1. To enhance the aptitude & analytical skill of students with multiple tricky approaches.
2. To prepare the students for various competitive examinations & professional exams

#### **Course Outcome:**

At the end of the course the students will be able

1. To enhance their problem solving skills, to improve the basic mathematical & Logical Skills for any type of competitive examinations.
2. To get best possible training for the them students through continuous training module.
3. To find themselves sound for the campus recruitment program's aptitude Test.
4. To enhance problem solving skill using fast track techniques without using calculator.

#### **Course Content:**

<b>Module No.</b>	<b>Description</b>	<b>Hours</b>	<b>Blooms Level</b>	<b>PO(1..12) Mapping</b>
1.	<b>Quantitative Aptitude</b> Simple & Compound Interest, Data Interpretation, Indices & Surds, Number System, Quadratic Equations	6	L1 (Remember) L2 (Understand) L4 (Analyze)	PO1,PO2, PO10
2.	<b>Logical Reasoning: Syllogism</b> , Logical Venn diagram, If Else Statement <b>Puzzles</b> Seating Arrangement, Classification, Seating Arrangement with Blood Relations <b>Machine Input-Output</b> Pattern Based I/O <b>Inequality</b> a) Coded Inequality, b) Jumbled Inequality, c) Conditional inequality.	12	L1 (Remember) L2 (Understand) L3 (Apply) L4 (Analyze)	PO1,PO2, PO10
3.	<b>Verbal English</b> <b>Sentence Corrections</b> , Fill the blanks with appropriate words/ articles/ preposition/ verbs/adverbs/ conj nction. <b>Reading Comprehension</b> (Advance Level) <b>Vocabulary</b> .	12	L1 (Remember) L2 (Understand) L3 (Apply) L4 (Analyze)	PO1,PO2, PO10
4.	<b>Data interpretation:</b> Advanced Level.	6	L1 (Remember) L2 (Understand) L3 (Apply) L4 (Analyze)	PO1,PO2, PO10

**Learning Resources:****Text Books:**

1. Objective General English- S.P Bakshi
2. English Grammar and Competition-S.C Gupta
3. Fast Track Objective Arithmetic- Rajesh Verma
4. Advance Maths- RakeshYadav
5. Verbal and Non-Verbal Reasoning- R.S Agarwal
6. A new approach to Reasoning- BS Sijwali
7. Quantitative Aptitude-R.S Agarwal

## **4<sup>TH</sup> SEMESTER**

<b>Subject Code :</b> IVC402	<b>Category :</b> Mandatory & Industry Value Added Course
<b>Subject Name :</b> COMPETITIVE APTITUDE TRAINING-IV	<b>Semester :</b> 4TH
<b>L-T-P :</b> 2-0-0 (Total Contact Hrs. 2)	<b>Credit:</b> 0
<b>Pre-Requisites:</b> Basic Mathematics, General English from primary to high school.	

### **Course Objective:**

1. To enhance the aptitude & analytical skill of students with multiple tricky approaches.
2. To prepare the students for various competitive examinations & professional exams

### **Course Outcome:**

At the end of the course the students will be able

1. To enhance their problem solving skills, to improve the basic mathematical & Logical Skills for any type of competitive examinations.
2. To get best possible training for the them students through continuous training module.
3. To find themselves sound for the campus recruitment program's aptitude Test.
4. To enhance problem solving skill using fast track techniques without using calculator.

### **Course Content:**

<b>Module No.</b>	<b>Description</b>	<b>Hours</b>	<b>Blooms Level</b>	<b>PO(1..12) Mapping</b>
1.	<b>Quantitative Aptitude</b> Permutation & Combination, Probability, Geometry, Mensuration	6	L1 (Remember) L2 (Understand) L4 (Analyse)	PO1,PO2, PO10
2.	<b>Logical Reasoning</b> 1) <b>Seating Arrangement</b> a) Circular seating arrangement b) Square seating Arrangement c) Line Arrangement 2) <b>Calendar And Clock</b> 3) <b>Miscellaneous Problems</b>	12	L1 (Remember) L2 (Understand) L3 (Apply) L4 (Analyze)	PO1,PO2, PO10
3.	<b>Verbal English</b> 1) <b>Sentence Corrections</b> 2) Fill the <b>blanks</b> with appropriate words/articles/preposition/verbs/adverbs/conjunction. 3) <b>Reading Comprehension</b> (Advance Level) 4) <b>Vocabulary</b>	12	L1 (Remember) L2 (Understand) L3 (Apply) L4 (Analyze)	PO1,PO2, PO10

**Learning Resources:****Text Books:**

1. Objective General English- S.P Bakshi
2. English Grammar and Competition-S.C Gupta
3. Fast Track Objective Arithmetic- Rajesh Verma
4. Advance Maths- RakeshYadav
5. Verbal and Non-Verbal Reasoning- R.S Agarwal
6. A new approach to Reasoning- BS Sijwali
7. Quantitative Aptitude-R.S Agarwal



**5<sup>TH</sup> SEMESTER:**

<b>Subject Code :</b> IVC502	<b>Category :</b> Mandatory & Industry Value Added Course
<b>Subject Name :</b> COMPETITIVE APTITUDE TRAINING-V	<b>Semester :</b> 5TH
<b>L-T-P :</b> 2-0-0 (Total Contact Hrs. 2)	<b>Credit:</b> 0
<b>Pre-Requisites:</b> Basic Mathematics, General English from primary to high school.	

**Course Objective:**

1. To enhance the aptitude & analytical skill of students with multiple tricky approaches.
2. To prepare the students for various competitive examinations & professional exams

**Course Outcome:**

1. The ability to communicate effectively with a range of audiences.
2. The ability to face the test and interview conducted by different companies and succeed
3. The ability to recognize the need for continuing professional development.
4. The ability to succeed in competitive exams

**Course Content:**

<b>Module No.</b>	<b>Description</b>	<b>Hours</b>	<b>Blooms Level</b>	<b>PO(1..12) Mapping</b>
1.	<b>Quantitative Aptitude &amp; Data Interpretation-</b> Miscellaneous	12	L1 (Remember) L2 (Understand) L4 (Analyze)	PO1,PO2, PO10
2.	<b>Logical Reasoning</b>  1) Statement And Assumption, 2) Statement And Conclusion, 3) Statement And Course Of Action, 4) Cause And Effect, 5) Drawing Inference	12	L1 (Remember) L2 (Understand) L3 (Apply) L4 (Analyze)	PO1,PO2, PO10
3.	<b>Verbal English</b>  1) <b>Sentence Corrections</b> 2) Fill the <b>blanks</b> with appropriate words/articles/preposition/verbs/adverbs/conjunction. 3) <b>Reading Comprehension</b> (Advance Level) 4) <b>Vocabulary</b>	12	L1 (Remember) L2 (Understand) L3 (Apply) L4 (Analyze)	PO1,PO2, PO10

**Learning Resources:****Text Books:**

1. Objective General English- S.P Bakshi
2. English Grammar and Competition-S.C Gupta
3. Fast Track Objective Arithmetic- Rajesh Verma
4. Advance Maths- RakeshYadav
5. Verbal and Non-Verbal Reasoning- R.S Agarwal
6. A new approach to Reasoning- BS Sijwali
7. Quantitative Aptitude-R.S Agarwal

## **6<sup>TH</sup> SEMESTER**

<b>Subject Code :</b> IVC602	<b>Category :</b> Mandatory & Industry Value Added Course
<b>Subject Name :</b> COMPETITIVE APTITUDE TRAINING-VI	<b>Semester :</b> 6th
<b>L-T-P :</b> 2-0-0 (Total Contact Hrs. 2)	<b>Credit:</b> 0
<b>Pre-Requisites:</b> Basic Mathematics, General English from primary to high school.	

### **Course Objective:**

1. To enhance the aptitude & analytical skill of students with multiple tricky approaches.
2. To prepare the students for various competitive examinations & professional exams

### **Course Outcome:**

1. The ability to communicate effectively with a range of audiences.
2. The ability to face the test and interview conducted by different companies and succeed. And also preparation to appear different competitive exams starts.
3. The ability to recognize the need for continuing professional development.
4. The ability to succeed in competitive exams (BANK/IBPS/SSC/GATE / GRE / PSU's/Placement Aptitude etc.).

### **Course Content:**

<b>Module No.</b>	<b>Description</b>	<b>Hours</b>	<b>Blooms Level</b>	<b>PO(1..12) Mapping</b>
1.	<b>Revision and Advanced Problems in Quantitative Aptitude:</b> 1)Numbers (+, -, x, etc), Percentages, Ratio, Partnership, Linear Equations, Profit & Loss 2)Averages, Mixtures & Allegations, Number System, Time and Work 3)Simple & Compound Interest, Other / Misc Quantitative Apt., Indices and Surds, Quadratic Equations 4)Permutations & Combinations, Probability, Geometry, Mensuration Data Interpretation, Various Charts, Diagrams, Tables	12	L1 (Remember) L2 (Understand) L4 (Analyse)	PO1,PO2, PO10
2.	<b>Revision and Advanced Problems in Reasoning</b> 1)Coding, Series & Numbers, Blood Relations, Analogy 2)Cubes, Data Sufficiency, Non-Verbal Reasoning 3)Syllogisms, Puzzles, Machine I/O, Inequality Seating Arrangement, Calendar /	12	L1 (Remember) L2 (Understand) L3 (Apply) L4 (Analyse)	PO1,PO2, PO10

	Clock 5)Statements, Other / Misc Logical Reasoning, Decision Making (Ethics)			
3.	<b>Revision and Advanced Questions in Verbal English</b> 1)Grammar, 2)Clauses, 3)Spotting errors, 4)Sentence Correction, 5)Blanks, 6)Reading Comprehensions, 7)Vocabulary	12	L1 (Remember) L2 (Understand) L3 (Apply) L4 (Analyze)	PO1,PO2, PO10

### Learning Resources:

#### Text Books:

1. Objective General English- S.P Bakshi
2. English Grammar and Competition-S.C Gupta
3. Fast Track Objective Arithmetic- Rajesh Verma
4. Advance Maths- RakeshYadav
5. Verbal and Non-Verbal Reasoning- R.S Agarwal
6. A new approach to Reasoning- BS Sijwali
7. Quantitative Aptitude-R.S Agarwal

## **7<sup>TH</sup> SEMESTER**

<b>Subject Code :</b> IVC702	<b>Category</b> : Mandatory & Industry Value Added Course
<b>Subject Name :</b> COMPETITIVE APTITUDE TRAINING-VII	<b>Semester:</b> 7 <sup>th</sup>
<b>L-T-P</b> : 2-0-0 (Total Contact Hrs. 2)	<b>Credit:</b> 0
<b>Pre-Requisites:</b> Basic Mathematics, General English from primary to high school.	

### **Course Objective:**

1. To enhance the aptitude & analytical skill of students with multiple tricky approaches.
2. To prepare the students for various competitive examinations & professional exams

### **Course Outcome:**

1. Revision of entire Syllabus along with specific type of Mock Tests for the competitive exams like UPSC, IBPS, SBI PO/SO, SSC, RAIL, INSURANCE etc.
2. Learning Advance quantitative Aptitude Techniques on Algebra, Geometry, Mensuration, Tr etc which is very essential for appearing in different competitive Exams along with SSC.
3. Solving Puzzle based problems & learning different Analytical techniques.
4. Misc Practice sets on different Competitive Exams mains level papers.

### **Course Content:**

<b>Module No.</b>	<b>Description</b>	<b>Hours</b>	<b>Blooms Level</b>	<b>PO(1..12) Mapping</b>
1.	<b>Quantitative Aptitude</b> Miscellaneous Problems on quantitative aptitude [CAT level-4].	12	L1 (Remember) L2 (Understand) L4 (Analyse)	PO1, PO2, PO10
2.	<b>Logical Reasoning:</b> Miscellaneous Problems on Logical Reasoning [CAT level 4].	12	L1 (Remember) L2 (Understand) L3 (Apply) L4 (Analyze)	PO1, PO2, PO10
3.	<b>Verbal English</b> Miscellaneous Problems on Verbal English [CAT level-4].	12	L1 (Remember) L2 (Understand) L3 (Apply) L4 (Analyze)	PO1, PO2, PO10

**Learning Resources:****Text Books:**

1. Objective General English- S.P Bakshi
2. English Grammar and Competition-S.C Gupta
3. Fast Track Objective Arithmetic- Rajesh Verma
4. Advance Maths- RakeshYadav
5. Verbal and Non-Verbal Reasoning- R.S Agarwal
6. A new approach to Reasoning- BS Sijwali
7. Quantitative Aptitude-R.S Agarwal

## **8<sup>TH</sup> SEMESTER**

<b>Subject Code :</b> HSMC802	<b>Category :</b> Mandatory& Industry Value Added Course
<b>Subject Name :</b> COMPETITIVE APTITUDE TRAINING-VIII	<b>Semester :</b> 8TH
<b>L-T-P :</b> 2-0-0 (Total Contact Hrs. 2)	<b>Credit:</b> 0.5
<b>Pre-Requisites:</b> Basic Mathematics, General English from primary to high school.	

### **Course Objective:**

1. To enhance the aptitude & analytical skill of students with multiple tricky approaches.
2. To prepare the students for various competitive examinations & professional exams

### **Course Outcomes:**

1. To make the students aware of all the nuances of various public sector examinations.
2. To motivate them hone their previously learnt skills necessary for cracking various exams like civil service examination (UPSC and State PSC), Staff Selection Commission, Railway Services and other exams.
3. This part of the syllabus will also expertise them to boost their conversational skills by allowing them to speak on a variety of topics with ease.
4. Appearing mock tests of different competitive exams both prelims & mains.

### **Course Content:**

<b>Module No.</b>	<b>Description</b>	<b>Hours</b>	<b>Blooms Level</b>	<b>PO(1..12) Mapping</b>
1.	<b>Mock tests OF UPSC CSAT-II.</b>	12	L1 (Remember) L2 (Understand) L4 (Analyse)	PO1,PO2, PO10

### **Learning Resources:**

#### **Text Books:**

1. Verbal and Non-Verbal Reasoning- R.S Agarwal
2. Quantitative Aptitude-R.S.Agarwal
3. GK PUBLICATION –for UPSC Civil Services