



# SOURASHTRA COLLEGE, MADURAI – 625004

(An Autonomous Institution Re-accredited with 'B+' grade by NAAC)

## DEPARTMENT OF INFORMATION TECHNOLOGY

### CERTIFICATE COURSE IN QUANTITATIVE APTITUDE

#### – SYLLABUS

(Under CBCS based on OBE) (For those admitted during 2024 – 2025 and after)

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COURSE CODE	COURSE TITLE	CATEGORY	T	P	CREDITS
24CITC11	QUANTITATIVE APTITUDE – I	CERTIFICATE COURSE	20 Hrs.	-	-

YEAR	SEMESTER	INTERNAL	EXTERNAL	TOTAL
II	-	-	100	100

NATURE OF COURSE	Employability <input checked="" type="checkbox"/>	Skill Oriented <input checked="" type="checkbox"/>	Entrepreneurship <input checked="" type="checkbox"/>
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#### COURSE DESCRIPTION:

Quantitative aptitude is an inseparable and an integral part of aptitude exams in India. It tests the quantitative skills along with logical and analytical skills. One can test their own number of handling techniques and problem-solving skills by solving these problems.

#### COURSE OBJECTIVES:

- To give numerical aptitude and to prepare students for competitive examinations
- To impart knowledge on solving various types of numerical problems
- To give practice to students by giving variety of problems and enrich their analytical skills

#### COURSE OUTCOMES (COs):

After the completion of the course, the students will be able to

No.	Course Outcomes	Knowledge Level (According to Bloom's Taxonomy)
CO 1	solve problems on Numbers	Upto K3
CO 2	solve problems on H.C.F and L.C.M of numbers	Upto K3
CO 3	solve problems on Square roots and Cube roots	Upto K3
CO 4	solve problems on Simple Interest and Compound Interest	Upto K3
CO 5	solve problems on Average	Upto K3

K1–KNOWLEDGE (REMEMBERING), K2–UNDERSTANDING, K3–APPLY



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### QUANTITATIVE APTITUDE – I

#### UNIT- I:

Numbers – Operations on Numbers

#### UNIT- II:

H.C.F and L.C.M of Numbers

#### UNIT- III:

Square Roots and Cube Roots

#### UNIT- IV:

Compound Interest and Simple Interest

#### UNIT- V:

Average

#### TEXT BOOK:

*Quantitative Aptitude*. Dr. R. S. Aggarwal – S. Chand Publishing.

Unit I: Chapter 1. Page No.: 3 – 9.

Unit II: Chapter 2. Page No.: 30 – 34.

Unit III: Chapter 5. Page No.: 117 – 121.

Unit IV: Chapter 21, 22. Page No.: 445 – 447, 466 – 470.

Unit V: Chapter 6. Page No.: 139 – 141.

**Note: Only example problems to be asked in Examinations.**

#### DIGITAL TOOLS:

- <https://www.examveda.com/arithmatic-ability/practice-mcq-question-on-average/>
- <https://www.indiabix.com/aptitude/>

**NOTE: STUDY MATERIAL PROVIDED BY THE DEPARTMENT**

#### Mapping of CO with PSO

	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6
CO1	3	2	2	1	2	1
CO2	2	3	3	2	2	2
CO3	1	3	2	2	2	3
CO4	3	2	1	3	2	2
CO5	2	3	2	2	2	1

3. Advanced Application      2. Intermediate Development      1. Introductory Level

**COURSE DESIGNER: Prof. T.S. B. ARUNPRASANTH**

Passed in the BoS Meeting held on 09/03/2024

Signature of the Chairman



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COURSE CODE	COURSE TITLE	CATEGORY	T	P	CREDITS
24CITC12	QUANTITATIVE APTITUDE - II	CERTIFICATE COURSE	20 Hrs.	-	-

YEAR	SEMESTER	INTERNAL	EXTERNAL	TOTAL
II	-	-	100	100

NATURE OF COURSE	Employability	Skill Oriented	Entrepreneurship
	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

### COURSE DESCRIPTION:

Quantitative aptitude is an inseparable and an integral part of aptitude exams in India. It tests the quantitative skills along with logical and analytical skills. One can test their own number of handling techniques and problem-solving skills by solving these problems.

### COURSE OBJECTIVES:

- To give numerical aptitude and to prepare students for competitive examinations
- To impart knowledge on solving various types of numerical problems
- To give practice to students by giving variety of problems and enrich their analytical skills

### COURSE OUTCOMES (COs):

After the completion of the course, the students will be able to

No.	Course Outcomes	Knowledge Level (According to Bloom's Taxonomy)
CO 1	solve problems on Simplification	Upto K3
CO 2	solve problems on Problems on Numbers	Upto K3
CO 3	solve problems on Ratio and Proposition, Problems on Ages	Upto K3
CO 4	solve problems on Time & Work	Upto K3
CO 5	solve problems on Time & Distance	Upto K3

K1–KNOWLEDGE (REMEMBERING), K2–UNDERSTANDING, K3–APPLY



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### QUANTITATIVE APTITUDE – II

#### UNIT- I:

Simplification

#### UNIT- II:

Number Series Completion

#### UNIT- III:

Letter and Symbol Series

#### UNIT- IV:

Odd-man-out-and-series

#### UNIT- V:

Time & Distance

#### TEXT BOOKS:

*Quantitative Aptitude*. Dr. R. S. Aggarwal – S. Chand Publishing.

Unit I: Chapter 4. Page No.: 67 – 74.

Unit II: Chapter 7, Page No.: 161– 163.

Unit III: Chapter 8, 12. Page No.: 182 – 183, 294 – 296.

Unit IV: Chapter 15. Page No.: 341 – 344.

Unit V: Chapter 17. Page No.: 384 – 386.

**Note: Only example problems to be asked in Examinations.**

#### DIGITAL TOOLS:

1. <https://www.examveda.com/arithmatic-ability/practice-mcq-question-on-simplification/>
2. <https://www.examveda.com/arithmatic-ability/practice-mcq-question-on-speed-time-and-distance/>

#### Mapping of CO with PSO

	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6
CO1	3	2	2	1	2	1
CO2	2	3	3	2	2	2
CO3	1	3	2	2	2	3
CO4	3	2	1	3	2	2
CO5	2	3	2	2	2	1

3. Advanced Application      2. Intermediate Development      1. Introductory Level  
**COURSE DESIGNER: Prof. T. S. B. ARUNPRASANTH**

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