

<i>DEPARTMENT OF STATISTICS</i>			<i>Certificate Course</i>				
Course Type	Course Code	Course Code Course Title	Credits	Total Contact Hours	CIA	Ext	Total
Value Added Course		Quantitative Aptitude for Competitive Examinations	2	30			

**Learning Objectives:**

- ❖ To enhance the problem solving skills
- ❖ To improve the basic mathematical skills
- ❖ to help students who are preparing for any type of competitive examinations.

**Learning out comes:**

- ❖ Interpret and communicate their results in various forms, including in writing
- ❖ To apply mathematical analysis of data to make connections, draw conclusions and solve problems.

**Unit – I**

Number Series – Blood Relation – Rati and Proportion – Percentage and Averages – Profit and Loss – Mixtures and Allegations – Surds and Indices – Time and Distance

**Unit – II**

Mensuration – Cylinder – Cone - Sphere – Simple Interest and Compound Interest

**Unit – III**

Charts and Graphs – Bar Chart , Pie Chart, Line graph – Permutation and Combination - Probability

**Unit – IV**

Sitting Arrangements, Tabulation, Logical Reasoning, Syllogism, Input, Output, Coding, Decoding, Alphanumeric Series, Ranking, Direction, Alphabet Test, Coding Inequalities, Non –Verbal Reasoning.

**Unit – V**

Number System, Binary Conversion, History of Computers, Hardware, Software, Networking (Lan,Wan ), Internet (Concept, History, Working, Environment, Application)

**Books for References**

1. Quantitative Aptitude by Dr. R. S. Agawal.
2. <http://www.visionias.net/2016/12/rs-aggarwal-quantitative-aptitude-free.html>
3. <https://www.edutechlearners.com/quantitative-aptitude-by-r-s-aggarwal-pdf/>