

**SHAILABALA WOMEN'S (AUTONOMOUS) COLLEGE  
CUTTACK**



**SYLLABUS FOR  
UNDER GRADUATE  
COURSE IN SKILL ENHANCEMENT COURSE (II)  
SEC-II  
(BACHELOR OF SCIENCE EXAMINATION)  
QUANTITATIVE AND LOGICAL THINKING  
(SPECIAL COURSE)**

**2020-2021  
(ADMISSION BATCH)**

**UNDER  
CHOICE BASED CREDIT SYSTEM**



# DETAILED SYLLABUS

SEMESTER-IV.

CREDIT – 04

FULL MARK-100

Mid Semester – 20

End Semester – 80

I. QUANTITATIVE APTITUDE & DATA INTERPRETATION	
Unit - 1	Whole numbers, Integers, Rational and irrational numbers, Fractions, Square roots and Cube roots, Surds and indices, Problems on Numbers, Divisibility
	Steps of Long Division Method for Finding Square Roots
Unit – 2	Basic concepts, Different formulae of Percentage, Profit and Loss, Discount, Simple Interest, Ratio and Proportions, Mixture
Unit – 3	Time and Work, Pipes and Cisterns, Basic concepts of Time, Distance and Speed; relationship among them
Unit – 4	Concept of Angles, Different Polygons like triangles, rectangle, square, right angled triangle, Pythagorean Theorem, Perimeter and Area of Triangles, Rectangles, Circles.
Unit – 5	Raw and Grouped Data, Bar Graphs, Pie Charts, Mean, Median and Mode, Events and Sample Space, Probability
ii. LOGICAL REASONING	
Unit – 1	Analogy basing on kinds of relationships, Simple Analogy; Pattern and Series of Numbers, Letters, Figures, Coding-Decoding of Numbers, Letters, Symbols (Figures), Blood relations.
Unit – 2	Logical Statements – Two premise argument, More than two premise argument using connectives.
Unit – 3	Venn Diagrams, Mirror Images, Problems on Cubes and Dices

## Books Recommended :

Study Material in Book form for Skill Enhancement Compulsory Course II

- Quantitative and Logical Thinking (Special Course) developed by Odisha State Higher Education Council, Bhubaneswar.