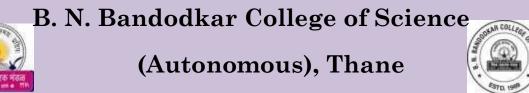
Academic Council Meeting No. and Date: 9/July 2, 2024

Agenda Number: 3 Resolution Number: 41/3.3 A

Vidya Prasarak Mandal's



Certificate Course Quick Calculations in Mathematcis

With effect from Academic year 2024-2025

PREAMBLE

"Quick Calculations in Mathematics" is introduced as a certificate course to be

conducted by Department of Mathematics, VPM's B. N. Bandodkar College of Science

(Autonomous), Thane.

Quick calculations are based on various ancient mathematical tricks developed by Indian

Mathematicians. Solving mathematical problems quickly is the requirement of many

competitive exams like CAT, CET, GMAT, UPSC etc. This course gives the tricks to solve

the problems quickly.

OBJECTIVES OF THE COURSE:

1. To introduce students the different methods of quick calculations in Mathematics.

2. To understand the basic mathematical techniques used in quick calculations.

3. To apply the basic mathematical techniques in various fields.

COURSE OUTCOMES: After completion of this course participant would be able

1. To solve the problems quickly.

2. To apply the tricks in the given time constraints.

3. To find the product and division of the two numbers quickly.

4. To find the square root of a number quickly.

5. To find cube root of a number quickly.

ELIGIBILITY: Any Student with interest in Mathematics.

Course Code: BCCQC036

Course Title:

Quick Calculations in Mathematics

Syllabus

UNIT	SUB-TOPICS	Lectures	Practicals
I	Basic Mathematical methods to find Product of two numbers, division of two numbers, square root and cube root of a number.	5	5
II	Digit sum method Magic squares	5	5
III	Dates and Calendar	5	5

Evaluation Scheme

Theory Examination: Suggested Format of Question paper

Duration: 2 Hours Total Marks: 60

All questions are compulsory

Q. 1	Based on Unit I	20
Q. 2	Based on Unit II	20
Q. 3	Based on Unit III	20

Note: Each question may have sub-questions of the type Objectives/True or False/Short Note/Solve the problem.

Internal Assignments have to be submitted in the hard copy format in the department

Total number of assignments: 04 each carrying 10 marks Total marks: 40 Practical Examination

Details	Marks	Viva	Journal	Total
Practical	80	10	10	100

Course Code	Description	Marks
BCCQC036 Total of Internal Assignments		40

	Total of Theory Examination	60
	Total of Practical Examination	100
Total		200

Fees

Particulars		Expenditure	
Course Fee		1,000/-	
Minimum students	20	20,000/-	
Course Fee x Minimum no. of students (Total revenue generated)	A	20,000/-	
Course Coordinator		2,000/-	
Teacher's payment Rs. 200/- per hour	30 hrs	6,000/-	
Non-Teaching Payment Rs. 50/- per hour	30 hrs	1,500/-	
Total expenditure	В	9,500/-	
Balance income	(A – B)	10,500/-	

Duration

Duration in terms of Hours	30
Per day	3 Hours
No. of days	10
No. of weeks	02
Course will be conducted in the month of	April/June every year