EXPERT DETAILS

MR. SUBRATA MAHANTY
ASSISTANT PROFESSOR
MATHEMATICS

MR. SABYASACHI MANDAL ASSISTANT PROFESSOR MATHEMATICS

MR. SANJOY HALDER
ASSISTANT PROFESSOR
MATHEMATICS

MRS. DEBJANI CHATTERJEE ASSISTANT PROFESSOR

MR. MRINMOY MAITY
ASSISTANT PROFESSOR
MATHEMATICS

MATHEMATICS

COURSE IS FOR

B.TECH
B.Sc.
B.A
DIPLOMA
ITI
HIGHER SECONDARY (Class XI & XII)

REGISTRATION FEES

Rs. 200/-

COURSE HIGHLIGHTS:

- The essential uses of geometry for studies of curve structure.
- Understand the concept of Fibonacci series & golden ratio in nature, architecture, finance, art, and various scientific fields through reallife examples.
- Application of data measurement to calculate different types of financial analysis, growth rate, environmental data analysis & other daily life problems.
- The real-life application of probability in various field like weather forecast, match win prediction, etc.
- This course focuses on developing the theoretical tools and logical reasoning required for higher mathematics, advanced physics, engineering mathematics, etc.
- Understand the concept of algebraic operations that will be beneficial in their various entrance test & competitive exams.

CONTACT DETAILS:

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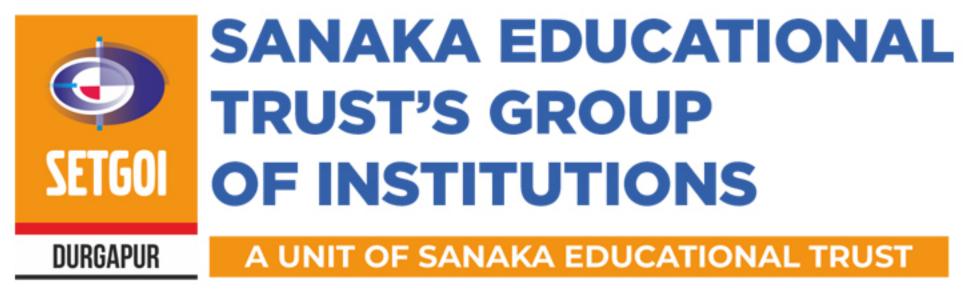
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SHORT JERM_____CERTIFICATE COURSE

ABSTRACT MATHEMATICS



MALANDIGHI, DURGAPUR - 713212

DEPARTMENT OF

BASIC SCIENCE AND HUMANITIES

REGISTRATION

Scan the QR Code for Registration



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Day 1

Inaugural Session

SET:

Describe the set using Venn-Diagrams, properties of set operation.

RELATION:

Equivalence relation & Equivalence class.

MAPPING:

Domain, range, graph, Bijection mapping,

Day 2

FUNCTION:

Identification of Functions (graphically).

Different types of functions

Polynomial function

Exponential function

Logarithmic function

Trigonometric function, etc.

COMBINATION:

Real life Application of permutation Combination. Combinations with repetition.

Day 3

NUMBER THEORY:

Divisibility Test – Introduce divisibility rules for numbers 2, 3, 5, 10, etc.

Used to simplify fractions, factor numbers, and

Used to simplify fractions, factor numbers, and find least common multiples (LCMs) and greatest common divisors (GCDs)

Concept of Prime Number.

Fundamental Theorem of Arithmetic.

Prime Factorization

PROOFS:

Different Types of Proof Used in Mathematics.
Direct Proof
Proof by Contradiction
Proof by Contrapositive
Proof by Mathematical Induction
Geometric Proofs

Day 4

PROBABILITY:

Key concepts of probability Conditional probability Bayes' theorem.

STATISTICS:

Introduction to Measurement by Statistical Tools.

SEQUENCE & SERIES:

Brief Discussion A.M, G.M & H.M. Fibonacci series & golden ratio

Day 5

Quiz/test based on the acquired knowledge from the previous classes.

Valedictory session.