

Objectives and Outcomes

1. Arithmetic:

- **Objectives:**

- Develop a solid understanding of basic arithmetic operations such as addition, subtraction, multiplication, and division.
- Learn techniques for performing arithmetic calculations efficiently and accurately.
- Understand the properties of numbers, including even and odd numbers, prime and composite numbers, and properties of fractions and decimals.
- Apply arithmetic concepts to solve real-world problems involving quantities, measurements, and financial calculations.

- **Outcomes:**

- Proficiency in performing arithmetic operations mentally and using various computational tools.
- Ability to manipulate numbers fluently and accurately in everyday situations.
- Understanding of arithmetic properties and their applications in diverse contexts.
- Problem-solving skills, including the ability to analyze and solve mathematical problems using arithmetic principles.
- Mastery of arithmetic concepts as a foundation for more advanced mathematical study and application in fields such as algebra, geometry, and calculus.

2. Reasoning:

- **Objectives:**

- Develop logical thinking skills to analyze, evaluate, and draw conclusions from information.
- Learn different types of reasoning, including deductive, inductive, and abductive reasoning.



- Understand principles of formal logic, including propositional logic and predicate logic.
- Develop problem-solving strategies based on logical reasoning, including pattern recognition, inference, and deduction.
- Apply reasoning skills to solve problems in various domains, including mathematics, science, philosophy, and everyday decision-making.
- **Outcomes:**
 - Ability to identify and analyze patterns, relationships, and logical structures in data and information.
 - Proficiency in constructing logical arguments and evaluating their validity and soundness.
 - Skill in using deductive reasoning to draw conclusions from premises and premises from conclusions.
 - Ability to use inductive reasoning to make generalizations and predictions based on observed patterns and evidence.
 - Capacity to apply logical reasoning to solve complex problems and make informed decisions in different contexts.
 - Development of critical thinking skills, including the ability to assess arguments, detects fallacies, and formulate coherent explanations and justifications.

Overall, the objectives of arithmetic and reasoning include building foundational mathematical skills, developing logical thinking abilities, and applying these skills to solve problems and make decisions effectively in various domains. Mastery of arithmetic and reasoning concepts is essential for success in academic pursuits, professional endeavors, and everyday life.





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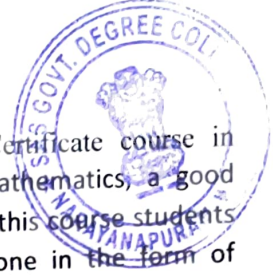


Department of Physics

(CERTIFICATE COURSE IN Mathematics)

Brief Report on Certificate Course

In the Academic Year 2019-20 certificate course programme on Certificate course in Arithmetic and Reasoning was conducted in the Department of Mathematics, a good number of students were admitted for this certificate course. Through this course students get knowledge about Arithmetic and Reasoning. Assessment was done in the form of Evaluation of Exam.



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