



# ALL INDIA COUNCIL FOR TECHNICAL SKILL DEVELOPMENT

अखिल भारतीय तांत्रिक कौशल्य विकास परिषद

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## Syllabus

### Albert Einstein International Scholarship Test -2023

#### Class - 7

- **Area And Volume**
    - Area
    - Finding Area When Whole Squares Are Not Covered
    - Area Of Irregular Shapes
    - Area Of A Rectangle Or Square
    - Finding Length Or Breadth
    - Perimeter
    - Volume
    - Volume Of A Cube
    - Volume Of A Cuboid

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  - **Time & Work**
    - Problem on time & work calculation
    - Finding Number Of Days From One Date To Another
    - Railway And Air Timings
    - Time Intervals

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  - **Algebraic Expression**
    - Introduction
    - How Are Expressions Formed?
    - Terms Of An Expression
    - Like And Unlike Terms
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- Monomials, Binomials, Trinomials And Polynomials
- Addition And Subtraction Of Algebraic Expressions
- Finding The Value Of An Expression
- Using Algebraic Expressions Formulas And Rules

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### ● HCF & LCM

- Hcf
- Lcm
- Prime Factorisation
- Hcf By Prime Factorisation
- Lcm By Prime Factorisation
- Lcm By Division Method

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### ● Perimeter And Area

- Introduction
- Squares And Rectangles
- Area Of A Parallelogram
- Area Of A Triangle
- Circles
- Conversion Of Units
- Applications

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### ● Percentages

- Expressing Fractions As Percentages
  - Converting Percentages To Fractions
  - Expressing Percentages As Decimals
  - Expressing Decimals As Percentages
  - Finding Percentage Of A Number
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- Money And Metric Measures As Percentages
  - Why Do We Use Percentages?
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- Ratio And Proportion
    - Introduction
    - Ratio
    - Proportion
    - Unitary Method
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- Profit And Loss
    - Profit And Loss
    - Finding Selling Price
    - Finding Cost Price
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