

# Education & Skills

## 01. Personal Information

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## 02. Combined Mathematics

- Trigonometry
- Probability
- Algebra
  - Functions
  - Logarithm
  - Inequalities
  - Quadratic functions
  - Complex Numbers
  - Metrics
  - Binomial Theorem
- Coordinates
  - Straight line
  - Circle
- Dynamics
  - Velocity-Time Graph
  - Dynamic Equations
  - Relative Motion
  - Newton's laws
  - Work, energy and efficiency
  - Momentum
  - Circular Motion
  - Simple harmonic motion
- Statics
  - Vector
  - Power
  - Equilibrium
  - Friction
  - Center of mass
  - Center of Gravity
- Calculus
  - Limit
  - Derivation and Uses of Derivation
  - Integration and Uses of Integration

### #Resources



### 03. Physics

- Measurement
  - Physical quantities and units
  - Dimensions
  - Measuring instruments
  - Scalar and vector
- Mechanical engineering
  - Power and motion
  - Work, energy and efficiency
  - Rotational motion and circular motion
  - Liquid statics
  - Fluid Dynamics
- Oscillations and waves
  - Wave motion and its properties
  - Doppler effect
  - Electromagnetic waves
  - Geometrical optics
  - Refraction of light
- Thermal physics
  - Thermometer
  - Expansion
  - Behavior of gases
  - Kinetic theory of gases
  - Thermometry
  - Thermodynamics
- Gravitational fields
- Static electric fields
- Magnetic fields
- Electric current & resistance
- Electronic
- Mechanical properties of matter
  - Elasticity
  - Viscosity
  - Surface tension
- Matter and radiation

#### #Resources



### 04. Chemistry

- Atomic structure
- Structure and bonding
- Chemical calculations
- Gaseous state of matter
- Energetics
- Chemistry of s, p and d block elements
- Basic concepts of organic chemistry
- Hydrocarbons and halo hydrocarbons
- Oxygen containing organic compounds
- Nitrogen containing organic comp
- Chemical kinetics
- Equilibrium
- Electro chemistry
- Industrial chemistry and Environmental pollution

## 06. Programming Languages

- JavaScript
- Html
- CSS
- Python
- Kotlin

## 07. Skills

- Web Development
- Problem-Solving
- Languages: English
- Self-Motivation & Independent Learning
- Creativity & Initiative
- Leadership
- Never Give Up
- Critical Thinker

**This is the first time I am letting others decide my future, and it is the biggest decision of my life—one that depends on everything: my future, my career path, and absolutely everything else. The most hated part is that I cannot decide it myself now, and I cannot make my acceptance rate 100% because it depends on others. But I have done everything possible to make my rejection rate 0%.**