

[View Indian Coast Guard Assistant Commandant Exam Pattern](#)

S.no	Exam Type	Subjects
1	Objective Type	Mental Ability Test (MAT)
2		Picture Perception and Discussion Test

[Indian Coast Guard AC Syllabus for Mental Ability Test \(MAT\)](#)

Indian Coast Guard Group A Syllabus for Mathematics

- Algebra.
- Complex Numbers.
- Partial fractions.
- Mathematical Induction.
- Matrices.
- Permutations and Combinations.
- Theory of Equations.
- Hyperbolic Functions.
- Additions of Vectors.
- Binomial Theorem.
- Trigonometry.
- Probability.
- Random Variables and Probability Distributions.
- Inverse Trigonometric Functions.
- Properties of Triangles.
- The product of Vectors.
- The Straight Line.
- Coordinate Geometry.
- Pairs of Straight Lines.
- Parabola.
- Locus.
- Hyperbola.
- Transformation of Axes.
- Integration.
- Circle.
- Ellipse.
- Definite Integrals.
- The system of circles.

- Limits and Continuity.
- Differentiation.
- Differential equations.
- Three-Dimensional Coordinates.
- Applications of Derivatives.
- Direction Cosines and Direction Ratios etc

ICG Assistant Commandant Syllabus for English

- Verb.
- Tenses.
- Adverb.
- Subject-Verb Agreement.
- Fill in the Blanks.
- Direct/Indirect Speech.
- Transformation of Sentences.
- Articles.
- Active & Passive Voice.
- Synonyms.
- Vocabulary.
- Comprehension.
- Antonyms.
- Sentence Rearrangement.
- Idioms & Phrases.
- Grammar.
- Unseen Passages etc.

Indian Coast Guard AC Syllabus for General Knowledge

- History – India & The World.
- Geography – India & The World.
- General Polity.
- Cultural Heritage.
- Indian National Movement.
- About India.
- Indian Constitution.
- Science & Technology.
- Current Affairs – National & International
- Economy etc.

ICG Assistant Commandant (Group A) Syllabus for Physics

- Mathematical Methods
- Electromagnetic Theory
- Nuclear and Particle Physics
- Atomic and Molecular Physics

- Quantum Theory and its Applications
- Classical Mechanics and Relativity
- Condensed Matter Physics
- Thermodynamics and Statistical Mechanics
- Electronics
- Experimental Physics

Indian Coast Guard Syllabus for Basic Chemistry

- Photochemistry
- Thermodynamics
- Chemical Kinetics
- Organic Synthesis
- Quantum Chemistry
- Bio-inorganic chemistry
- Chemistry of Transition Elements
- Nuclear chemistry
- Acids and Bases
- Redox Reactions
- Structure and Bonding
- Inorganic reaction mechanism
- Analytical Chemistry
- Electrochemistry
- Analytical Techniques

Syllabus for Numerical Aptitude

- The test of Arithmetical and Numerical abilities.
- Ratio & Proportion.
- L.C.M.
- Discount.
- Decimals.
- H.C.F.
- Number Systems including questions on Simplification.
- Fractions.
- Percentage.
- Average.
- Profit & Loss.
- Mensuration.
- Time & Work.
- Time & Distance.
- Simple & Compound Interest.
- Tables & Graphs, etc

Indian Coast Guard Syllabus for Picture Perception and Discussion Test

- In the Picture Perception and Discussion Test, Candidates are provided a picture and you have to observe the given picture for 30 seconds. After the completion of 30 seconds, Aspirants must write a creative essay on the given picture within 4 minutes.

Indian Coast Guard Final Selection Test Syllabus

Thematic Apperception Test

- In this round, a PPT of 30 seconds is given and you will be asked to write a story within the duration of 4 minutes.

Work Association Test

- Under this test, officials will show you 60 words in the successive duration of 15 seconds. Aspirants are required to write about their thoughts using those 60 words in one single sentence or line.

Situation Reaction Test

- In this round, you have to write about your reactions to the given situations.

Self Description Test

- Under this test, Candidates has to describe themselves within 15 minutes.