

# Oil and Natural Gas Corporation Limited (ONGC) Syllabus

## ONGC Non-Executive Syllabus - Reasoning

### Verbal Reasoning

- Analogy
- Series Completion
- Verification of truth of the Statement
- Situation Reaction Test
- Direction Sense Test
- Classification
- Data Sufficiency
- Alpha- Numeric Sequence Puzzle
- Puzzle Test
- Blood Relations
- Coding- Decoding
- Assertion and Reasoning
- Arithmetical Reasoning
- Operations of Mathematics
- Venn Diagrams
- Word Sequence
- Missing Characters
- Sequential Output training
- Directions
- Test on Alphabets
- Eligibility Test

### Non-Verbal Reasoning

- Dot Situation
- Identical figure groupings
- Forming figures and analysis
- Construction of squares and Triangles
- Series
- Analytical Reasoning
- Paper Folding
- Paper Cutting
- Cubes and Dice
- Water Images
- Mirror Images
- Figure Matrix
- Completion Incomplete Pattern
- Spotting embedded figures
- Classification

## **Oil and Natural Gas Corporation Limited (ONGC) Syllabus**

- Rules Detection

### **Oil and Natural Gas Corporation Limited (ONGC) General Awareness Syllabus**

- National Dance
- Music & Literature
- Indian Culture
- Scientific observations
- Political Science
- World organizations
- Countries and Capitals
- Famous Places in India
- Books and Authors
- Important Dates
- About India and it's neighboring countries
- Science and innovations
- New inventions
- Economic problems in India
- Geography of India
- National and International current affairs

### **ongcindia.com Non-Executive Mathematics Syllabus**

- Relations and Functions
- Logarithms
- Complex Numbers
- Quadratic Equations
- Sequences and Series
- Trigonometry
- Cartesian System of Rectangular Coordinates
- Statistics
- Differentiation
- Introduction to Three Dimensional Geometry
- Straight Lines
- Circles
- Conic Sections
- Permutations and Combinations
- Vectors
- Exponential and Logarithmic Series
- Sets and Set Theory
- Probability Function
- Limits and Continuity
- Applications of Derivatives

## Oil and Natural Gas Corporation Limited (ONGC) Syllabus

- Indefinite Integrals Binomial Theorem
- Matrices
- Determinants
- Definite Integrals

### तेल और प्राकृतिक गैस निगम लिमिटेड Aptitude Syllabus

- Line Graphs.
- Profit and Loss.
- Percentages.
- Mensuration.
- Data Sufficiency.
- Data Interpretation.
- Averages.
- Data Analysis.
- Decimal & Fractions.
- Problems on Ages.
- Time and Distance.
- Boats & Streams.
- Line Graphs.
- Bar Graphs.
- Clocks.
- Tables.
- Pie – Charts.
- Bar Graphs.
- Case lets.
- Roots.
- Pie Charts.
- HCF & LCM.
- Logarithms.
- Probability.
- Simplification.
- Pipes & Cisterns.
- Heights & Distances Partnership.
- Number System.
- Problems on Trains.
- Permutation & Combination.
- Ratio and Proportions.
- Mixtures & Allegations.
- Volume & Surface Area.
- Time and Work.
- Simple & Compound Interest.

# **Oil and Natural Gas Corporation Limited (ONGC) Syllabus**

## **ONGC Non-Executive Syllabus - Mechanical**

- Engineering Mechanics
- Engineering Materials
- Mechanisms and Machines
- Fluid Mechanics
- IC Engines, Refrigeration and Air conditioning
- Turbo Machinery
- Thermodynamics and Heat transfer
- Power Plant Engineering
- Renewable Sources of Energy
- Design of Machine Elements
- Manufacturing
- Industrial and Maintenance Engineering
- Mechatronics and Robotics

## **Oil and Natural Gas Corporation Limited (ONGC) Chemical Syllabus**

- Atoms and Molecules.
- Reaction Dynamics.
- Electrochemistry.
- Stereochemistry.
- Spectroscopic Techniques.
- Organic Reactions.
- Photochemistry.
- Transition Metal Chemistry.

## **ongcindia.com Non-Executive Electrical Syllabus**

- Analog and Digital Electronics
- Systems and Signal Processing
- Control Systems
- Electrical Machines
- Electrical and Electronic Measurements
- Engineering Mathematics
- Electric Circuits and Fields
- Computer Fundamentals
- Basic Electronics Engineering
- Electrical Materials
- Power Systems
- Power Electronics and Drives

# Oil and Natural Gas Corporation Limited (ONGC) Syllabus

## तेल और प्राकृतिक गैस निगम लिमिटेड Syllabus - Electronics

- Analog and Digital Communication Systems
- Control Systems
- Computer Organization and Architecture
- Electro Magnetics
- Advanced Electronics Topics
- Basic Electrical Engineering
- Materials Science
- Advanced Communication Topics
- Basic Electronics Engineering
- Electronic Measurements and Instrumentation
- Network Theory
- Analog and Digital Circuits

## ONGC Non-Executive Syllabus - Instrumentation

- Digital Electronic Circuits
- Electrical Measurements
- Electronics Instruments
- Analog Electronics
- Analytical, Optical & Bio-Medical Instrumentation
- Instrumentation
- Signals & Systems
- Control Systems
- Electronics Circuits
- Fundamentals
- Microprocessors and Micro Computers