



Indian Oil Corporation Limited

Registered Office: IndianOil Bhavan, G-9, Ali Yavar Jung Marg,
Bandra (East), Mumbai - 400 051

Syllabus for Chemical

1. Engineering Mathematics
2. Process Calculation & Thermodynamics
3. Fluid Mechanics & Mechanical Operations
4. Chemical Reaction Engineering
5. Instrumentation & Process Control
6. Plant Design and Economics
7. Heat Transfer
8. Mass Transfer
9. Chemical Technology



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Syllabus for Electrical

1. Engineering Mathematics
2. Electrical Machines
3. Power Systems
4. Control Systems
5. Electric circuits
6. Electromagnetic Fields
7. Signals and Systems
8. Electrical and Electronic Measurements
9. Analog and Digital Electronics
10. Power Electronics



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Syllabus for Instrumentation

1. Engineering Mathematics
2. Control Systems
3. Analog Electronics
4. Digital Electronics
5. Electricity and Magnetism
6. Electrical Circuits and Machines
7. Signals and Systems
8. Measurements
9. Sensors and Industrial Instrumentation
10. Communication and Optical Instrumentation



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Syllabus for Verbal Ability of English Language

1. Basic English grammar: tenses, prepositions, articles, adjectives, conjunctions, verb-noun agreement, and other parts of speech
2. Basic vocabulary: words, idioms, and phrases in context,
3. Reading and comprehension,
4. Narrative sequencing.



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Syllabus for Quantitative Aptitude

1. Data interpretation: data graphs (bar graphs, pie charts, and other graphs representing data),
2. 2- and 3-dimensional plots, maps, and tables
3. Numerical computation and estimation: ratios, percentages, powers, exponents and logarithms, permutations and combinations, and series
4. Mensuration and geometry Elementary statistics and probability.



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Syllabus for Logical Reasoning

1. Logic: deduction and induction, Analogy, Numerical relations and reasoning.
2. Transformation of shapes: translation, rotation, scaling, mirroring, assembling, and grouping paper folding, cutting, and patterns in 2 and 3 dimensions.