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CMRUAT Syllabus

For B.Tech

Physics

- dual nature of matter and radiation
- thermodynamics
- kinetic theory of gases
- electronic devices
- oscillations and waves
- communication systems
- electrostatics
- physics and measurement
- kinematics
- current electricity
- laws of motion
- magnetic effects of current and magnetism
- work, energy, and power
- electromagnetic induction and alternating currents
- rotational motion
- atoms and nuclei
- electromagnetic waves
- gravitation
- optics
- properties of solids and liquids

Biology

- Embryology of angiosperms
- Gymnosperm
- Morphology of Angiosperm
- Anatomy
- Algae, Fungi
- Plant Diseases
- Viruses
- Bacteria
- Biochemistry
- Plant growth and growth hormones
- Ecology
- Pteridophyte
- Bryophytes
- Plant Succession
- Environmental Pollution
- Cell Biology
- Plant Physiology

Maths

- Differential equations
- Matrices and determinants
- Coordinate geometry
- Permutations and combinations
- Three-dimensional geometry
- Mathematical induction
- Sets, relations, and functions

- Vector algebra
- Binomial theorem and its simple applications
- Statistics and probability
- Sequences and series
- Trigonometry
- Limit, continuity, and differentiability
- Mathematical reasoning
- Integral calculus
- Complex numbers and quadratic equations

Chemistry

- some basic concepts in chemistry
- redox reactions and electrochemistry
- chemical bonding and molecular structure
- chemical kinetics
- chemical thermodynamics
- surface chemistry
- classification of elements and periodicity in properties
- p – block elements
- general principles and processes of isolation of metals
- d – and f – block elements
- hydrogen
- polymers
- hydrocarbons
- biomolecules
- organic compounds containing halogens
- chemistry in everyday life
- organic compounds containing oxygen

- principles related to practical chemistry
- equilibrium
- atomic structure
- coordination compounds
- s – block elements (alkali and alkaline earth metals)
- environmental chemistry
- organic chemistry
- purification and characterization of organic compounds
- organic compounds containing nitrogen
- some basic principles of organic chemistry
- solutions
- states of matter

For MBA Course

English

- Synonyms
- Substitution
- Para Completion
- Error Correction (Phrase in Bold)
- Error Correction (Underlined Part)
- Fill in the blanks
- Antonyms
- General English
- Sentence
- Prepositions
- Active and Passive Voice
- Completion

- Spotting Errors
- Spelling Test
- Passage Completion
- Transformation
- Sentence Arrangement
- Sentence Improvement
- Idioms and Phrases
- Joining Sentences

Reasoning

- Verbal Reasoning
- Puzzles and Seating Arrangement
- Syllogism
- Data Sufficiency
- Coding-decoding
- Blood Relation
- Order and Ranking
- Alpha Numeric Symbol Series
- Puzzles
- Data Sufficiency
- Logical Reasoning
- Data Interpretation
- Analytical Reasoning

Aptitude

- Boats and Streams
- Simple Interest

- Areas
- Averages
- Problems on L.C.M and H.C.F
- Pipes and Cisterns
- Problems on Numbers
- Compound Interest
- Volumes
- Profit and Loss
- Odd Man Out
- Races and Games
- Time and Distance
- Numbers and Ages
- Mixtures and Allegations
- Percentages
- Simple Equations
- Quadratic Equations
- Indices and Surds
- Mensuration
- Permutations and Combinations
- Probability
- Simplification and Approximation
- Problems on Trains
- Time and Work Partnership
- Ratio and Proportion