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AP EAMCET Syllabus

Mathematics

- Algebra
- Trigonometry
- Vector Algebra
- Measures Of Dispersion And Probability
- Coordinate Geometry
- Calculus

Physics

- Physical World
- Units And Measurements
- Motion In A Straight Line
- Motion In A Plane
- Laws Of Motion
- Work, Energy, And Power
- System Of Particles And Rotational Motion
- Oscillations
- Gravitation
- Mechanical Properties Of Solids
- Mechanical Properties Of Fluids
- Thermal Properties Of Matter
- Thermodynamics
- Kinetic Theory
- Waves
- Ray Optics And Optical Instruments

- Wave Optics
- Electric Charges And Fields
- Electrostatic Potential And Capacitance
- Current Electricity
- Moving Charges And Magnetism
- Magnetism And Matter
- Electromagnetic Induction
- Alternating Current
- Electromagnetic Waves
- Dual Nature Of Radiation And Matter
- Atoms
- Nuclei
- Semiconductor Electronics
- Communication Systems

Chemistry

- Atomic Structure
Classification Of Elements And Periodicity In Properties
- Chemical Bonding And Molecular Structure
- States Of Matter
- Stoichiometry
- Thermodynamics
- Chemical Equilibrium And Acids-bases
- Hydrogen And Its Compounds
- The S – Block Elements (Alkali And Alkaline Earth Metals)
- P- Block Elements Group 13 (Boron Family)
- P-block Elements – Group 14 (Carbon Family)
- Organic Chemistry-some Basic Principles And Techniques And Hydrocarbons
- Solid State
- Solutions

- Electrochemistry And Chemical Kinetics
- Surface Chemistry
- P-block Elements
- D And F Block Elements & Coordination Compounds
- Biomolecules
- Haloalkanes And Haloarenes
- Organic Compounds Containing C, H, And O (Alcohols, Phenols, Ethers, Aldehydes, Ketones, And Carboxylic Acids)
- Organic Compounds Containing Nitrogen

Botany

- Diversity In The Living World
- Structural Organisation In Plants- Morphology
- Reproduction In Plants
- Plant Systematics
- Cell Structure And Function
- Internal Organisation Of Plants
- Plant Ecology
- Plant Physiology
- Microbiology
- Genetics
- Molecular Biology
- Biotechnology
- Plants, Microbes, And Human Welfare

Zoology

- Zoology – Diversity Of Living World
- Structural Organization In Animals
- Animal Diversity-i: Invertebrate Phyla
- Animal Diversity-ii: Phylum: Chordata
- Locomotion & Reproduction In Protozoa

- Biology In Human Welfare
- Ecology & Environment
- Human Anatomy And Physiology-i
- Human Anatomy And Physiology-ii
- Human Anatomy And Physiology-iii
- Human Anatomy And Physiology-iv
- Human Reproduction Zift, Gift.
- Genetics
- Applied Biology