

NEET Syllabus 2022-23 PDF: Check Physics, Chemistry, Biology NEET Syllabus Here

NEET 2022-23 syllabus by MCI covers concepts from classes 11 and 12. Specifically, the NEET syllabus consists of three subjects i.e. Physics, Chemistry, and Biology (Zoology and Botany). Consequently, the aspirants are advised to go through the NEET 2022 Zoology syllabus and NEET 2022 Botany syllabus. No changes are expected to be made to NEET 2022 syllabus.

NEET Syllabus 2022-23 - The National Medical Commission (NMC) recommends the NEET syllabus PDF for all aspiring candidates. Candidates appearing for NEET 2022, should be aware of the syllabus, to ace the exam with ease. NEET syllabus 2022-23 includes topics from Physics, Chemistry, and Biology Class 11 and 12 curriculum. Download the NEET syllabus PDF below.

NEET syllabus PDF covers most topics and sub-topics from Classes 11 and 12 Physics, Chemistry, and Biology. At StudyRate, our subject-matter experts have segregated the **NEET 2022 syllabus subject-wise** to make it easier to understand for all candidates.

To provide a fair idea to aspirants, the syllabus of NEET 2022 in the article has been divided into two parts - topics covered in Class 11 and topics covered in Class 12. The National Testing Agency (NTA) will conduct NEET 2022 for admission to MBBS, BDS, AYUSH, and BSc nursing courses. Read the article on NEET 2022 syllabus, subject-wise topics, [best books for NEET](#), and other details here.

NEET Syllabus 2022

The NEET 2022 Syllabus by MCI is made as per the curriculum of NCERT books. Specifically, class XI and XII NCERT books play a vital role in clear major concepts and topics. Now, the mentioned table shows the detailed **NEET 2022** marking scheme for every subject.

Examination	National Eligibility Entrance Test (NEET)
NEET Syllabus Issuing Authority	National Testing Agency
NEET Syllabus 2022 Official website	neet.nta.nic.in
Physics	45 questions
Chemistry	45 questions
Biology	Botany Section: 45 questions and Zoology Section: 45 questions

Last year although the NEET exam syllabus had remained the same, the structure of the NEET question paper has been changed. Each subject will consist of two sections. Section A will consist of 35 Questions and Section B will have 15 questions, out of these 15 Questions, candidates can choose to attempt any 10 Questions. So, the total number of questions and utilization of time will remain the same. The below table will help candidates understand better.

Sections	Number of Questions	Total Marks
Physics Section A	35	140
Physics Section B	15	40
Chemistry Section A	35	140
Chemistry Section B	15	40
Botany Section A	35	140
Botany Section B	15	40
Zoology Section A	35	140
Zoology Section B	15	40

NEET Physics Syllabus 2022

NEET Physics Section consists of 50 questions and this covers two major portions of Class 11th and 12th Physics. **NEET Physics Syllabus** of a total of 19 units from both 11th and 12th grade which covers 25% weightage. Some of the major questions of this section come from topics like Thermodynamics, Mechanics, Optics, and Current Electricity. The rest all the topics for Physics are mentioned below.

NEET 2022 Physics Class 11 Syllabus

The NEET 2022 Physics - Class 11 syllabus will have a total of 10 topics. Candidates must check the number of questions being asked from each topic of NEET 2022 Physics-Class 11 Syllabus and weightage. That will help candidates to plan and devote time to NEET subjects accordingly. Below is the list of the topics of the class 11 Physics syllabus for NEET 2022.

- Physical-world and measurement
- Kinematics
- Laws of Motion
- Work, Energy, and Power
- The motion of System of Particles and Rigid Body
- Gravitation
- Properties of Bulk Matter
- Thermodynamics
- Behavior of Perfect Gas and Kinetic Theory
- Oscillations and Waves

Units

Topics

Sub Topics

Unit 1	Physical World and Measurement	Physics: Scope and Nature of Physics, Technology, and Society. Needs of Measurement Dimensions of Physicals quantities
Unit 2	Kinematics	Motion and its types Position-time graph, speed and velocity, Uniform and Non-Uniform motion Elementary concepts of differentiation and integration for motion Scalar and Vector Quantities Unit Vectors, Product of Vectors Projectile Motion and Uniform Circular Motion
Unit 3	Laws of Motion	Concept of Inertia, force, Newton's law of motion Equilibrium of concurrent forces Kinetics and Static Friction Laws of Friction Dynamics of Uniform Circular motion
Unit 4	Work, Energy, and Power	Potential Energy Work Done by a constant force Conservation of Mechanical Energy Kinetic and Potential Energy Elastic and inelastic Collisions in two dimensions.
Unit 5	Motion of System of Particles and Rigid Body	Moment of force Centre of Mass Momentum Torque, Conservation of Angular Momentum Equilibrium of Rigid Bodies, Linear and rotational motions, moment of Inertia
Unit 6	Gravitation	Gravitational Potential Energy, Escape Velocity, Kepler's Law of Planetary Motion, Acceleration due to gravity and its variation with altitude and depth. Kepler's Laws of Planetary Motion, Geostationary satellite
Unit 7	Properties of Bulk Matter	Viscosity, Reynold's Number, Turbulent and Streamline flow, Critical Velocity, Bernoulli's theorem, and its application Elastic Behaviour: Hooke's Law, Modulus of Rigidity, Poisson's Ratio, Elastic Energy, Stress-Strain relationship, Young's Modulus Heat, Thermal Expansion, Temperature: Specific Heat Capacity, thermal expansion of solids, liquids, and gases, change of state- latent heat. Surface Tension and Surface Energy: Application of Surface tension, ideas to drops, bubbles, and capillary rises. Heat Transfer: Thermal conductivity, radiation and convection, Wein's Displacement law, Green House Effect, Newton's Cooling Law, and Stefan's Law.
Unit 8	Thermodynamics	Thermal Equilibrium Laws of Equilibrium Isothermal, Adiabatic, and Isochoric Process Heat, Work, and Internal Energy Second Law of Thermodynamics Heat Engines, Carnot Engines Reversible and Irreversible Process
Unit 9	Behaviour of Perfect Gas and Kinetic Theory	Kinetic theory of gases, Kinetic energy, and temperature, Equation of state of a perfect gas, ideal gas, application to specific heat capacities of gases, concept of mean path.
Unit 10	Oscillations and Waves	Periodic motion, Simple harmonic motion, simple pendulum derivation, free, forced, and damped

oscillations, resonance. Wave motion: transverse and Longitudinal waves, Displacement relation, Principle of superposition of waves, reflection of waves, fundamental mode, Doppler's effect.

NEET 2022 Physics Class 12 Syllabus

Class 12 Physics syllabus for NEET 2022 exam will have a total of nine topics. Candidates must check the number of questions being asked from each topic of the NEET 2022 Physics-Class 12 Syllabus. Below is the list of the topics in the Class 12 physics syllabus for NEET.

- Electrostatics
- Current Electricity
- Magnetic Effects of Current and Magnetism
- Electromagnetic Induction and Alternating Currents
- Electromagnetic Waves
- Optics
- Dual Nature of Matter and Radiation
- Atoms and Nuclei
- Electronic Devices

Units of Class 12th Physics

Sub Topics

Unit 1	Electrostatics	<p>Electric flux, Gauss's theorem, and its application related to uniformly charged infinite plane sheet, infinitely long straight wire, and uniformly charged thin spherical shell. Electric Charges and conservation: Coulomb's Law, superposition principle, and continuous charge distribution Electric field, electric dipole, torque on a dipole in a uniform electric field. Conductors and insulators, Electric Polarization, capacitance, Dielectrics, and, capacitors. Combination of capacitors in series and parallel, Van de Graaff generator Electric potential, a dipole, and system of charges: equipotential surfaces, potential difference, the electrical potential energy of electric dipoles in an electrostatic field, and a system of two point charges.</p> <p>Potentiometer-principle: its application to measure potential difference, measurement of internal resistance of a cell Internal resistance of a cell: emf and potential difference of a cell, combination of cells in series and in parallel connection. Kirchhoff's Law and its applications, Metre Bridge and Wheatstone Bridge Carbon</p>
Unit 2	Current Electricity	

Unit 3	Magnetic Effects of Current and Magnetism	<p>Resistors: parallel and series combination of resistors, temperature dependence of resistors.Electric Current, Ohm's Law, Electrical resistance, drift velocity, flow of charges in metallic conductor, drift velocity.</p> <p>Force on a current-carrying conductor :Torque experienced by a current loop in a magnetic field; Force between two parallel current-carrying conductors,Concept of magnetic field, Oersted's experiment: Force on a moving charge in uniform magnetic and electric fields. Biot-Savart law and its application to current carrying circular loop. Ampere's law and its applications,Cyclotron.Magnetic dipole moment of a revolving electron. Current loop as a magnetic dipolePara-, dia-and ferro-magnetic substances, with examples. Electromagnetism and Permanent magnets.Torque on a magnetic dipole; Earth's magnetic field and magnetic elements, bar magnet</p>
Unit 4	Electromagnetic Induction and Alternating Currents	<p>Electromagnetic induction; Lenz's Law ,Alternating currents, peak. Self and mutual inductance. Faraday's law, reactance and impedance; LC oscillations, LCR series circuit, AC generator and transformer, Eddy currents, wattles current, resonance</p>
Unit 5	Electromagnetic Waves	<p>Electromagnetic wavesElectromagnetic spectrum: radio waves, microwaves, infrared, visible, ultraviolet, x-rays, gamma rays.Transverse and longitudinal nature of electromagnetic waves</p>
Unit 6	Optics	<p>Refraction of light, refraction at spherical surfaces, lens formula,Reflection of light, spherical mirrors, mirror formula. total internal reflection and its applications Magnification,.Combination of thin lenses in contact combination of a lens and a mirror. lens-maker's formula. power of a lens, Dispersion and Refraction through a prism.Optical Instruments: Human eye and its components, image formationScattering of Light: Appearance of reddish sun at sunrise and sunset, Blue colour of sky, white colour of sky, Astronomical Telescopes, MicroscopesWave optics: Reflection and refraction of plane wave at plane surfaces, Wavefront and Huygen's principle.Diffraction, Resolving power of astronomical telescopes and Microscopes, Polarisation, Brewster's Law,</p>

		Polaroids Interference, Coherent sources. Young's double hole experiment and interference of light.
Unit 7	Dual Nature of Matter and Radiation	Einstein's photoelectric equation - particle nature of light. Photoelectric effect , Lenard's and Hertz observations; Matter waves - Davisson-Ger, wave nature of particles, de Broglie relation. Rutherford's model of atom ; Alpha- particle scattering experiments; hydrogen spectrum, Bohr model, energy levels. Radioactivity - alpha, beta and gamma particles/ rays and their properties
Unit 8	Atoms and Nuclei	decay law. Composition and size of nucleus, isotopes, isobars; isotones, atomic masses Mass-energy relation ; binding energy per nucleon, nuclear fission and fusion, mass defect and its variation with mass number Junction transistor , characteristics of a transistor; transistor action, transistor as an amplifier and oscillator. Logic gates (OR, AND, NOT, NAND and NOR), Transistor as a switch. Energy bands in solids , conductors, semiconductors; diode as a rectifier; Zener diode; solar cell, semiconductor diode- I-V characteristics in forward and reverse bias,
Unit 9	Electronic Devices	

NEET chapter-wise weightage for Physics

The following table brings the topics from the NEET Physics syllabus along with their weightage.

Name of the chapter	A number of questions asked (Approx.)	Weightage in percent
Alternating current	1	4
Atoms	0-1	1.5
Current electricity	2	8
Dual Nature of Radiation and Matter	2	6
Electric Charges and Fields	1	4.5
Electromagnetic induction	1	4
Electromagnetic waves	1	5
Electrostatic Potential and Capacitance	1	4.5
Gravitation	0-1	2
Kinetic theory	1	3
Laws of Motion	1	3
Magnetism and Matter	1	2.5
Mechanical Properties of Fluids	0-1	2

Mechanical Properties of Solids	0-1	2
Motion in a Plane	0-1	1.5
Motion in a Straight Line	0-1	1.5
Moving Charges and Magnetism	1	2.5
Nuclei	0-1	1.5
Oscillations	0-1	1.5
Physical World, Units and Measurements	0-1	2
Ray optics and optical instruments	1	5
Semiconductor Electronics: Materials, Devices and Simple Circuits	2	6
System of Particles and Rotational Motion	1	5
Thermal Properties of Matter	0-1	2
Thermodynamics	2	9
Wave optics	1	5
Waves	0-1	1.5
Work, Energy and Power	1	4
Total	45	100

NEET Chemistry Syllabus 2022

Total Units are 30 in **NEET Chemistry Syllabus** from both class 11th and class 12th. The Chemistry Section of NEET consists of 50 questions. NEET Chemistry consists of a total of 30 units from both 11th and 12th grade which covers 25% weightage. Some of the major questions of this section come from topics like Periodicity, p-block elements, chemical bonding and Hydrogen, carbonyl compounds, Aromatic Compounds, IUPAC Nomenclature, Electrochemistry, Ionization, Mole Concept, and so on. To score good marks in this section, candidates must follow a strict **preparation plan for chemistry**.

NEET 2022 Chemistry Class 11 Syllabus

- Some Basic Concepts of Chemistry
- Structure of Atom
- Classification of Elements and Periodicity in Properties
- Chemical Bonding and Molecular Structure
- States of Matter: Gases and Liquids
- Thermodynamics
- Equilibrium
- Redox Reactions
- Hydrogen
- s-Block Element (Alkali and Alkaline earth metals)
- Some p-Block Elements
- Organic Chemistry- Some Basic Principles and Techniques
- Hydrocarbons

- Environmental Chemistry

Units	Topics	Topics
Unit 1	Some Basic Concepts of Chemistry	General Introduction and scope of chemistry. Dalton's atomic theory : concept of elements, Atomic and molecular masses. Laws of chemical combination, Atoms and molecules , percentage composition Mole concept and molar mass; molecular and empirical formula; stoichiometry and its based calculations.
Unit 2	Structure of Atom	Heisenberg uncertainty principle , De Broglie's relationship, Atomic number, isotopes and isobars, Concept of shells and subshells, Quantum numbers, shapes of s, p and d orbitals , rules for filling electrons in orbitals- Pauli exclusion principles Aufbau principle, and Hund's rule Stability of half filled and completely filled orbitals, the concept of orbital, electronic configuration of atoms, dual nature of matter and light.
Unit 3	Chemical Bonding and Molecular Structure	VSEPR theory , Valence electrons, Lewis structure, covalent bond, polar character of covalent bond, concept of hybridization involving s, p and d orbitals, ionic bond, bond parameters, resonance, geometry of molecules, shapes of some simple molecules, valence bond theory, Hydrogen bond
Unit 4	Classification of Elements and Periodicity in Properties	Modern periodic law and long form of periodic table , ionic radii, electron gain enthalpy, electronegativity, ionization enthalpy, Periodic trends in properties of elements, atomic radii, valence.
Unit 5	States of Matter: Gases and Liquids	Charle's law, Gay Lussac's law , Boyle's law, Avogadro's law, ideal behaviour of gases, Avogadro number Three states of matter , intermolecular interactions, empirical derivation of gas equation, melting and boiling points, Kinetic energy and molecular speeds (elementary idea), Liquid State - Vapour pressure, surface tension, viscosity, liquefaction of gases, critical temperature, role of gas laws of elucidating the concept of the molecule
Unit 6	Thermodynamics	First law of thermodynamics - specific heat, measurement of U and H, internal energy and enthalpy, Hess's law of constant heat summation, atomization, ionization, combustion, and dilution. Second law of thermodynamics , Introduction of entropy as state function, criteria for equilibrium and spontaneity. Third law of thermodynamics - Brief introduction.
Unit 7	Equilibrium	Equilibrium in physical and chemical processes, law of chemical equilibrium, factors affecting equilibrium-

		<p>Le Chatelier's principle; ionization of acids and bases, degree of ionization, ionization of polybasic acids, Henderson equation Dynamic nature of equilibrium, Hydrolysis of salts, solubility product, buffer solutions, ionic equilibrium- strong and weak electrolytes, concept of pH.</p>
Unit 8	Hydrogen	<p>Preparation, properties and uses of hydrogen, Occurrence, isotopes, covalent and interstitial, physical and chemical properties of water, uses and structure. heavy water; hydrogen peroxide-preparation,</p> <p>Group 1 and group 2 elements: electronic configuration, occurrence, anomalous properties</p>
Unit 9	s-Block Elements	<p>General introduction, diagonal relationship, trends in the variation of properties ,trends in chemical reactivity with oxygen, Preparation and Properties of Some important Compounds: sodium hydroxide ,Sodium carbonate, sodium chloride, and biological importance of sodium and potassium. Industrial use of limestone and lime, biological importance of Mg and Ca.</p>
Unit 10	Redox Reactions	<p>Concept of and oxidation and reduction, balancing redox reactions</p>
Unit 11	Some p-Block Elements	<p>Introduction to p-Block Elements. Group 13 and 14 elements: General introduction, electronic configuration, occurrence, variation of properties, oxidation states, trends in chemical reactivity, Group 13: Boron, some important compounds: borax, boric acids, boron hydrides. Aluminium: uses, reactions with acids and alkalis. Group 14 Elements: uses of some important compounds: oxides. Important compounds of silicon and a few uses: silicon tetrachloride, silicones, silicates and zeolites, their uses.</p>
Unit 12	Hydrocarbons	<p>Alkanes- Nomenclature, isomerism, conformations ,mechanism of halogenation, combustion and pyrolysis. Alkenes-Nomenclature, the structure of double bond (ethene), methods of preparation: chemical reactions: halogen, ozonolysis, oxidation, mechanism of electrophilic addition, water, hydrogen halides (Markovnikov's addition and peroxide effect). Alkynes-Nomenclature, the structure of triple bond (ethyne), methods of preparation, physical properties, chemical reactions: acidic character of alkynes, halogens, addition reaction of- hydrogen, hydrogen halides, and water. Aromatic hydrocarbons- Introduction, Benzene; resonance, aromaticity; IUPAC nomenclature; chemical properties: mechanism of electrophilic substitution- halogenation, Nitration sulphonation, Friedel Craft's alkylation and acylation; carcinogenicity and toxicity.</p>

Unit 13	Organic Chemistry- Some Basic Principles and Techniques	<p>General introduction: classification and IUPAC nomenclature of organic compounds. methods of purification qualitative and quantitative analysis. Homolytic and heterolytic fission of a covalent bond: carbocations, free radicals, carbanions; electrophiles and nucleophiles. Electronic displacements in a covalent bond: electromeric effect, hyperconjugation, resonance, and inductive effect.</p> <p>Environmental pollution: Air, water, and soil pollution, major atmospheric pollutants; acid rain ozone and its reactions, green chemistry as an alternative tool for reducing pollution, effects of depletion of the ozone layer, strategy for control of environmental pollution, chemical reactions in the atmosphere.</p>
Unit 14	Environmental Chemistry	<p>General introduction: classification and IUPAC nomenclature of organic compounds. methods of purification qualitative and quantitative analysis. Homolytic and heterolytic fission of a covalent bond: carbocations, free radicals, carbanions; electrophiles and nucleophiles. Electronic displacements in a covalent bond: electromeric effect, hyperconjugation, resonance, and inductive effect.</p> <p>Environmental pollution: Air, water, and soil pollution, major atmospheric pollutants; acid rain ozone and its reactions, green chemistry as an alternative tool for reducing pollution, effects of depletion of the ozone layer, strategy for control of environmental pollution, chemical reactions in the atmosphere.</p>

NEET 2022 Chemistry Class 12 Syllabus

- Solid State
- Solutions
- Electrochemistry
- Chemical Kinetics
- Surface Chemistry
- General Principles and Processes of Isolation of Elements
- p- Block Elements
- d and f Block Elements
- Coordination Compounds
- Haloalkanes and Haloarenes
- Alcohols, Phenols and Ethers
- Aldehydes, Ketones and Carboxylic Acids
- Organic Compounds Containing Nitrogen
- Biomolecules
- Polymers
- Chemistry in Everyday Life

Units of Class 12th Chemistry

Topics

Unit 1	Solid State	<p>Classification of solids based on different binding forces; ionic covalent, molecular, and metallic solids, amorphous, unit cell in two dimensional and three-dimensional lattices, electrical and magnetic properties, packing in solids, calculation of density of unit cell, packing efficiency, point defects, number of atoms per unit cell in a cubic unit cell, voids, Band theory of metals, conductors, semiconductors and insulators.</p>
Unit 2	Solutions	<p>Types of solutions, solubility of gases in liquids, expression of concentration of solutions of solids in liquids, solid solutions. Colligative</p>

		<p>properties- relative lowering of vapour pressure, elevation of boiling point, depression of freezing point, Raoult's law, Van Hoff factor. determination of molecular masses using colligative properties abnormal molecular mass.</p> <p>Laws of electrolysis, kohlrausch's Law, electrolysis, Redox reactions, specific and molar conductivity variation of conductivity with concentration. Dry cell- electrolytic cells and Galvanic cells; lead accumulator, EMF of a cell, standard electrode potential, Relation between Gibbs energy change and EMF of a cell, fuel cells</p>
Unit 3	Electrochemistry	
Unit 4	Chemical Kinetics	<p>Rate of a reaction ,factors affecting rates of reaction, order and molecularity of a reaction; concentration, temperature, catalyst; rate law and specific rate constant, integrated rate equations and half life ,concept of collision theory ,Activation energy, Arrhenious equation</p>
Unit 5	General Principles and Processes of Isolation of Elements	<p>Principles and methods of extraction: reduction electrolytic method and refining; oxidation, concentration, occurrence and principles of extraction of aluminium, iron, zinc and copper.</p> <p>Adsorption-physisorption and chemisorption; catalysis homogeneous and heterogeneous, distinction between true solutions, colloids and suspensions; factors affecting adsorption of gases on solids, Tyndall effect, coagulation; Brownian movement, emulsions- types of emulsions, electrophoresis, colloidal state: properties of colloids; lyophillic, lyophobic multimolecular and macromolecular colloids.</p>
Unit 6	Surface Chemistry	<p>Group 15 elements: General introduction, occurrence, electronic configuration, oxidation states, preparation and properties of ammonia and nitric acid, trends in physical and chemical properties; oxides of nitrogen (structure only); Phosphorous- allotropic forms; preparation and properties of phosphine, compounds of phosphorous: halides (PCl₃, PCl₅) Group 16 elements: General introduction, oxidation states, occurrence, electronic configuration, trends in physical and chemical properties; preparation, dioxygen: properties and uses; ozone ,classification of oxides. Sulphur – allotropic forms; preparation, preparation,</p>
Unit 7	p- Block Elements	

Unit 8	d and f Block Elements	<p>compounds of sulphur: uses and properties of sulphur dioxide</p> <p>Group 17 elements: General introduction, oxidation states, occurrence, electronic configuration, trends in physical and chemical properties; compounds of halogens: preparation, uses and properties of chlorine and hydrochloric acid.</p> <p>Group 18 elements: General introduction, occurrence, electronic configuration, trends in physical and chemical properties and uses of some important compounds.</p> <p>General introduction, , characteristics of transition metals, electronic configuration general trends in properties of the first row transition metals- ionization enthalpy, oxidation states, metallic character, ionic radii, catalytic property, colour, magnetic properties, alloy formation interstitial compounds. Preparation and properties of KMnO_4 and $\text{K}_2\text{Cr}_2\text{O}_7$</p> <p>Lanthanoids- electronic configuration, chemical reactivity, oxidation states, and lanthanoid contraction and its consequences. Actinoids: Electronic configuration, oxidation states.</p>
Unit 9	Coordination Compounds	<p>Coordination compounds: Introduction, coordination number, ligands, colour, magnetic shape and properties ,IUPAC nomenclature of mononuclear coordination compounds, Werner's theory VBT,CFT, isomerism (structural and stereo) bonding.</p>
Unit 10	Haloalkanes and Haloarenes	<p>Haloalkanes: Nomenclature, physical and chemical properties, nature of C –X bond, Optical rotation ,mechanism of substitution reactions. Haloarenes: Nature of C-X bond, substitution reactions .Uses and environment effects of –trichloromethane, dichloromethane, iodoform, tetrachloromethane, DDT, freons,</p>
Unit 11	Alcohols, Phenols and Ethers	<p>Alcohols: Nomenclature, physical and chemical properties, methods of preparation, identification of secondary, primary, and tertiary alcohols; mechanism of dehydration and uses of methanol and ethanol.</p> <p>Phenols: Nomenclature, physical and chemical properties, methods of preparation, electrophilic substitution reactions, acidic nature of phenol, uses of phenols.</p> <p>Ethers: Nomenclature, physical and chemical properties uses ,methods of preparation.</p>

Unit 12	Aldehydes, Ketones and Carboxylic Acids	<p>Aldehydes and Ketones: Nomenclature, methods of preparation, nature of carbonyl group, physical and chemical properties; and mechanism of reactivity of alpha hydrogen in aldehydes, nucleophilic addition. Carboxylic Acids: Nomenclature, methods of preparation, physical and chemical properties acidic nature; uses</p>
Unit 13	Organic Compounds Containing Nitrogen	<p>Amines: Nomenclature, methods of preparation, classification, structure, uses, physical and chemical properties, identification of primary secondary and tertiary amines. Cyanides and Isocyanides Diazonium salts: Preparation Method, chemical reactions and importance in synthetic organic chemistry. Carbohydrates- Classification, monosaccharide, D.L. configuration, oligosaccharides, polysaccharides importance. Vitamins and their Classification and function. Proteins- Elementary introduction of – amino acids, polypeptides, peptide bond, proteins, secondary structure, primary structure, tertiary structure and quaternary structure, denaturation of proteins; enzymes. Hormones- Elementary idea Nucleic Acids: Deoxyribonucleic acid and Ribo nucleic Acid.</p>
Unit 14	Biomolecules	<p>Classification- Natural and synthetic, copolymerization, methods of polymerization (addition and condensation). Some important polymers: natural and synthetic like polyesters, rubber, bakelite; Non- Biodegradable and Biodegradable polymers.</p>
Unit 15	Polymers	<p>Chemicals in medicines- tranquilizers, analgesics, antiseptics, antimicrobials, disinfectants, antifertility drugs, antacids, antibiotics, antihistamines. Chemicals in food- preservatives, elementary idea of antioxidants, artificial sweetening agents, Cleansing agents- detergents and soaps, cleansing action.</p>
Unit 16	Chemistry in Everyday Life	

NEET Chapter-wise weightage for Chemistry

The following table brings the topics from the Chemistry section in NEET along with their weightage.

Name of the chapter	Number of Questions asked (Approx.)	Weightage in per cent
Alcohols, Phenols and Ethers	2	4
Aldehydes, Ketones and Carboxylic Acids	2	4
Bio-Molecules	1	3
Chemical bonding	2	5
Chemical Kinetics	1	3
Chemistry in everyday life	1	2
Coordination Chemistry	4	9
d-and f-block elements	2	4
Electrochemistry	1	2
Environmental Chemistry	1	2
Equilibrium	3	6
General Principles and Process of Isolation elements	1	2
Halo alkanes and Haloarenes; Amines	1	3
Hydrocarbons	1	3
Hydrogen	1	3
N containing Organic Compounds	1	3
Organic chemistry some basic principles and techniques - 1	1	2
Organic chemistry some basic principles and techniques - 2	1	2
p-block elements(13 14)	2	3.5
p-block elements(15 16 17 18)	2	3.5
Periodic table	1	2
Polymers	1	3
Redox reactions	1	3
s-block elements	1	2
Solutions	2	5
States of Matter	1	2
Structure of Atom	1	2
Surface Chemistry	1	2
The Solid State	1	2
Thermodynamics	4	8
Total	45	100

NEET Biology Syllabus 2022

Total units in **NEET Biology Syllabus** are 10 units. The Biology section of NEET consists of 100 questions, including both Botany and Zoology and this covers two

major portions of Class 11th Biology and Class 12th Biology. NEET Biology consists of a total of 10 units from both 11th and 12th grade which covers 50% weightage. Some of the major questions of this section are from topics like Cell Structure & Function, Human Physiology, Plant Physiology, Genetics, and Evolution.

NEET 2022 Biology Class 11 Syllabus

- Diversity in Living World
- Structural Organisation in Animals and Plants
- Cell Structure and Function
- Plant Physiology
- Human physiology

Units	Topics	Subtopics
Unit 1	Diversity in Living World	<p>The Living World? Biodiversity, Domains of Life, Diversity in the Living World, Taxonomic Categories, Need of Classification, Taxonomy & Systematics, Binomial Nomenclature, Tools of Taxonomy- Botanical gardens, Zoos, Museums.Biological Classification: Monera, Protista, Plantae, Animalia and Fungi and their characteristics, Lichens, Viroids Viruses.Plant Kingdom: Classification of Plants and their Salient features: Algae, Bryophytes, Pteridophytes, Gymnosperms, and Angiosperms: Their basis of Classification, Characteristics Features and Examples. Plant Life Cycles and Alternation of Generations.Animal Kingdom: Classification of Animals and their Salient Features: Chordates and Notochords, Amphibians and so on.</p>
Unit 2	Structural Organisation in Plants and Animals	<p>Morphology of Flowering Plants: Roots, Stem, Leaf, Inflorescence, Flower, Fruit, Seed, Description of Flowering Plant, Description of Important Families.Anatomy of Flowering Plants: Tissues and Tissue System, Anatomy of Monocotyledonous plant and Dicotyledonous plant, Secondary Growth.Structural Organisation in Animals: Animal Tissues, organ and organ system, Earthworm, cockroach, Frogs</p>
Unit 3	Cell Structure and Functions	<p>Cell: The Unit of Life: Cell, Cell Theory, Overview of cell, a Prokaryotic Cell, Eukaryotic Cells.Biomolecules: Analyses of Chemical Composition, Metabolic Basis for Living, Concept of Metabolism, Enzymes, Primary and secondary metabolites, Biomacromolecules, Proteins, Polysaccharides, Nucleic Acids, Structure of Proteins, Cell Cycle and Cell Division: Cell Cycle, M Phase, Significance of Mitosis, Meiosis, Significance of Meiosis</p>
Unit 4	Plant Physiology	<p>Transport in Plants: Means of Transport, Plant- Water Relations, Transpiration, Long Distance Transport of Water, Uptake and transport of Mineral Nutrients, Phloem Transport.Mineral Nutrition: Study of the Mineral</p>

Requirement of plants, Essential mineral Elements, Translocation of Solutes, Soil as Reservoir of Essential Elements, Metabolism of Nitrogen. **Photosynthesis of Higher Plants:** Early Experiments of photosynthesis, Location of Photosynthesis, Pigments involved in Photosynthesis, Light Reaction, The Electron Transport, Use of ATP and NADPH, C4 Pathways, Photorespiration, Factors affecting Photosynthesis. **Respiration in Plants:** Breathing Process of Plants, Glycolysis, Fermentation, Aerobic Respiration, The Respiratory Balance Sheet, Amphibolic Pathway, Respiratory Quotient. **Plant Growth and Development Plant Physiology:** Growth, Development, Differentiation, Dedifferentiation and Redifferentiation, Plant Growth Regulators, Photoperiodism, Vernalisation

Digestion and Absorption: Digestive System, Digestion of Food, Absorption of Digested products, Disorders of Digestive System. **Breathing and exchange of Gases:** Respiratory Organ, Mechanism of Breathing, Exchange of Gases, Transport of Gases, Regulation of Respiration, Disorders of Respiratory System. **Body Fluids and Circulation:** Blood, Lymph, Circulatory Pathways, Double Circulation, Regulation of Cardiac Activity, Disorders of Circulatory System. **Excretory Products and their Elimination:** Human Excretory system, Urine Formation, Function of the Tubules, Regulation of Kidney Function, Micturition, Disorders of Excretory System. **Locomotion and Movement:** Muscles, Types of Movements, Skeletal System, Joints, Disorders of Skeletal and Muscular System. **Neural Control and Coordination:** Neural System, Neurons, Central Neural System, Reflex Action and Reflex Arc, Sensory Reception and Processing. **Chemical Coordination and Integration:** Endocrine Glands and Hormone, Human Endocrine Systems, Hormones from Kidney, Heart and Gastrointestinal Tract, Mechanism of Hormone Action.

Unit 5 Human Physiology

NEET 2022 Biology Class 12 Syllabus

- Reproduction
- Genetics and Evolution
- Biology and Human Welfare
- Biotechnology and Its Applications
- Ecology and environment

Units	Topics	Subtopics
Unit 1	Reproduction	Reproduction in Organisms: Types of Reproduction: Asexual and Sexual. Sexual Reproduction in Flowering Plants: Flowers, Pre-Fertilisation, Double Fertilisation, Post

		<p>Fertilisation, Apomixis and Polyembryony. Human Reproduction: Male and Female Reproductive system, Gametogenesis, Menstrual Cycle, Fertilisation and Implantation, Pregnancy and Embryonic Development, Parturition and Lactation. Reproductive Health: Reproductive Health, Population Explosion and Birth Control, Medical termination of Pregnancy, Sexually Transmitted Diseases, Infertility.</p> <p>Principles of Inheritance and Variation: Mendel's Laws of inheritance, Inheritance of One Gene, Inheritance of Two Genes, Sex Determination, Mutation, Genetic Disorders. Molecular Basis of Inheritance: DNA, Genetic Material, RNA World, Replication, Transcription, Translation, Genetic Code, Regulation of Gene Expression, Human Genome Project, DNA Fingerprinting. Evolution: Origin of life, Evolutions of Life Forms, Adaptive Radiation, Biological Evolutions, Hardy-Weinberg Principle, Evolution of Man.</p> <p>Human Health and Disease: Common Diseases in Humans, Immunity, AIDS, Cancer, Drugs and Alcohol Abuse. Strategies for Enhancement in Food Production: Plant Breeding, Animal Husbandry, Single Cell Proteins, Tissue culture. Microbes in Human Welfare: Microbes in Household products, Industrial products, Sewage Treatment, Production of Biogas, Biocontrol Agents.</p> <p>Biotechnology: Principles and Processes: Principles of Biotechnology, Tools, and Process of Recombinant DNA Technology. Biotechnology and its Applications: Biotechnological Applications in Medicine, Agriculture, Transgenic Animals, Ethical issues.</p> <p>Organisms and Populations: Organisms and its Environment, Populations. Ecosystem: Structure and Function of Ecosystem, Productivity, Decomposition, Energy Pyramids, Energy Flow, Ecological Succession, Nutrient Cycling, Ecosystem Services. Biodiversity and Conservation: Biodiversity and Biodiversity Conservation. Environmental Issues: Air Pollution, Water Pollution, and their Control, Solid Wastes, Agrochemicals, and their Effects, Radioactive Wastes, Greenhouse Effect and Global Warming, Ozone Depletion, Degradation due to Improper Resource Utilisation, Deforestation.</p>
Unit 2	Genetics and Evolutions	
Unit 3	Biology in Human Welfare	
Unit 4	Biotechnology	
Unit 5	Ecology	

NEET chapter-wise weightage for Biology

The following table brings the topics from the NEET Biology syllabus in NEET along with their weightage.

Name of the chapter	Number of questions asked (Approx.)	Weightage in percent
Anatomy of Flowering Plants	0-1	2
Animal Kingdom	2	7
Biodiversity and Conservation	1	3
Biological Classification	0-1	2
Biomolecules	1	4
Biotechnology and its Applications	1	3
Biotechnology: Principles and Processes	1	3
Body Fluids and Circulation	0-1	1
Breathing and Exchange of Gases	0-1	2
Cell Cycle and Cell Division	0-1	2
Cell: The Unit of Life, Biomolecules	0-1	2
Chemical Coordination and Integration	1	4
Digestion and Absorption	1	3
Ecosystem	0-1	2
Environmental Issues	0-1	2
Evolution	0-1	2
Excretory Products and their Elimination	0-1	2
Human Health and Disease	1	3
Human Reproduction	1	3
Locomotion and Movement	0-1	2
Microbes in Human Welfare	0-1	2
Mineral Nutrition	0-1	1
Molecular Basis of Inheritance	2	6
Morphology of Flowering Plants	1	5
Neural Control and Coordination	0-1	2
Organisms and Populations	0-1	2
Photosynthesis in Higher Plants	0-1	2
Plant Growth and Development	0-1	1
Plant Kingdom	1	4
Principles and Inheritance and Variation	1	5
Reproduction in Organisms	0-1	1
Reproductive Health	0-1	2
Respiration in Plants	0-1	1
Sexual Reproduction in Flowering Plants	1	5

Strategies for Enhancement in Food Production	0-1	2
Structural Organisation in Animals	0-1	2
The Living World	0-1	2
Transport in Plants	0-1	1
Total	90	100

Best books for NEET Physics

1. 40 Days Physics for NEET by S B Tripathi
2. Concepts of Competition Physics for CBSE PMT by Agarwal
3. Concepts of Physics by H C Verma
4. Fundamental Physics by Pradeep
5. Fundamentals of Physics by Halliday, Resnick, and Walker
6. NCERT Physics by Anil Aggarwal
7. Objective Physics By DC Pandey
8. Objective Physics by Prof. Satya Prakash Arya (MTG Publishers)
9. Physics for NEET by C P Singh
10. Problems in General Physics by I E Irodov

Best books for NEET Chemistry

1. 40 Days Chemistry for NEET by Sudhanshu Thakur
2. Boyd for Organic Chemistry
3. Concise Inorganic Chemistry by J D Lee
4. Modern's ABC of Chemistry (Part 1 & 2)
5. Objective Chemistry (Volume I, II & III)
6. Objective Chemistry by R K Gupta
7. Organic Chemistry by Himanshu Pandey (GRB Publication)
8. Organic Chemistry by Morrison
9. Physical Chemistry by OP Tandon (G R Bathla Publications)
10. Practice books
 - Inorganic Chemistry – V K Jaiswal
 - Organic Chemistry – M S Chauhan
 - Physical Chemistry - N Awasthi

Best books for NEET Biology

1. 40 Days Biology for NEET by S Chakravarty
2. Exploring Biology (Vol 1 & 2) by Sanjay Sharma & Sudhakar Banerjee (Arihant Publications)
3. GR Bathla publications for Biology
4. Medical Entrances Biology (Vol 1, 2 & 3) by Mamta R Solanki & Lalita Ghotik (Target Publications)
5. Moderns ABC of Biology for XI & XII (B B Arora and A K Sabharwal - Modern Publishers)
6. Objective Biology (Vol 1, 2 & 3), Dinesh Publications

7. Objective Botany by Ansari
8. Pradeep's Publication Biology
9. True man's Objective Biology for NEET by M P Tyagi

NEET Syllabus FAQs

Is it possible to crack NEET Exam on the first attempt?

Yes, it is possible to crack NEET Exam in the first attempt, if the candidate is careful enough to complete the required syllabus with insufficient time along with proper practice over objective questions.

How many chapters are there in total in NEET 2022 syllabus?

NEET syllabus comprises 97 chapters in total. NEET Physics has 29 chapters combined from class 11 and class 12, NEET Chemistry has 30 chapters combined from class 11 and class 12 and NEET Biology has 38 chapters combined from class 11 and class 12.

Is NCERT chemistry enough for NEET?

Yes, students can prepare chemistry from the NCERT chemistry for NEET examination as the questions asked in NEET are mostly NCERT Based.

Is Physics hard in NEET?

Sometimes, Physics is considered to be the most difficult part of the NEET question paper.

Which subject covers the maximum part of the NEET Syllabus?

Biology (including both Botany and Zoology) covers the maximum part of the NEET Syllabus. This covers 50% of the exam and covers topics from Class 11th Biology and Class 12th Biology. A total of 10 units are mentioned under NEET Syllabus.