

Reduced Syllabus of NEET 2024

In the new syllabus of NEET 2024, NMC has removed certain chapters from each subject. The complete list of chapters removed in NEET syllabus 2024 is updated here for your reference. The detailed report of what has been removed and what has been added is based on the comparison of the new 2024 syllabus PDF by NMC with the 2023 syllabus. **[Source of Compilation: Old NEET syllabus PDF by NMC vs New NEET Syllabus PDF 2024]**

Chapters Deleted from NEET Chemistry Syllabus 2024

While some units have been completely removed from the syllabus, only a few chapters/ topics have been deleted from and added to the remaining units. The list of chapters deleted and added from class 11 and class 12 NEET chemistry syllabus 2024 are provided below. **Also, 4 units have been clubbed this year-**

- **Redox Reactions and Electrochemistry clubbed as 1 unit**
- **Alcohols, Phenols & Ethers and Aldehydes, Ketones & Carboxylic Acids are clubbed as 1 unit under Organic Compounds Containing Oxygen**

Units Removed from Chemistry NEET Syllabus

Inorganic Chemistry	Organic Chemistry	Physical Chemistry
Hydrogen	Polymer	Solid State
S-block elements	Environmental Chemistry	Surface Chemistry
General Principles and Processes of Isolation of Elements	Chemistry in Everyday Life	States of Matter

Note: Earlier p-block elements were divided into class 11 (group 13 and 14) and class 12 (group 15-18). In the 2024 syllabus, these have been clubbed as 1 unit.

2 New Units Added in NEET Chemistry Syllabus

1) Principles Related to Practical Chemistry

NMC has also introduced a new unit on 'Principles Related to Practical Chemistry'. This unit is added to test the application skills of the candidates in these concepts and experiments of chemistry:

- Detection of extra elements (nitrogen, sulphur, halogens) in organic compounds
- Detection of the functional groups- hydroxyl (alcoholic and phenolic), carbonyl (aldehyde and ketones) carboxyl, and amino groups in organic compounds.
- The chemistry involved in the titrimetric exercises: bases, acids, and the use of indicators; oxalic-acid vs KMnO_4 ; Mohr's salt vs KMnO_4

- The chemistry involved in the preparation of:
 - Inorganic compounds: Mohr's salt, potash alum
 - Organic compounds: Acetanilide, p-nitro acetanilide, aniline yellow, iodoform
- Chemical principles involved in the qualitative salt analysis of
 - Cations
 - Anions (excluding insoluble salts)
- Chemical principles involved in the following experiments:
 - Enthalpy of solution of CuSO_4
 - Enthalpy of neutralization of strong acid and strong base
 - Preparation of lyophilic and lyophobic sols
 - Kinetic study of the reaction of iodide ions with hydrogen peroxide at room temperature.

2) Organic Compounds Containing Halogens (earlier Haloalkanes and Haloarenes)

- General methods of preparation, properties, and reactions;
- **Nature of C-X bond:** Mechanisms of substitution reactions
- Uses
- Environmental effects of chloroform, iodoform, freons, and DDT

Topics Deleted from NEET Class 11 Chemistry Chapters

NEET UG deleted syllabus 2024 for chemistry class 11 is provided below:

Unit	Deleted Topics
Some Basic Concepts of Chemistry	General Introduction: Important and scope of chemistry
Atomic Structure	Atomic number, isotopes and isobars. Concept of shells and subshells, dual nature of light
Chemical Thermodynamics	Third law of thermodynamics- Brief introduction

Topics Deleted from NEET Class 12 Chemistry Syllabus

NEET UG deleted syllabus 2024 for chemistry class 12 is provided below:

Unit	Deleted topics
Organic Compounds	Cyanides and Isocyanides- will be mentioned at relevant places

Containing Nitrogen	
---------------------	--

Topics Added in NEET Chemistry Syllabus 2024

Unit	Topics Added
Atomic Structure	Nature of electromagnetic radiation, photoelectric effect; Spectrum of the hydrogen atom.
	Bohr model of a hydrogen atom - its postulates, derivation of the relations for the energy of the electron and radii of the different orbits, limitations of Bohr's model
Chemical Bonding and Molecular Structure	<ul style="list-style-type: none"> • Kossel - Lewis approach to chemical bond formation • Concept of ionic and covalent bonds • Elementary idea of metallic bonding • Fajan's rule
Chemical Thermodynamics	Fundamentals of thermodynamics: System and surroundings, extensive and intensive properties' state functions, types of processes
Redox Reactions and Electrochemistry	Electrolytic and metallic conduction, conductance and their in electrolytic solutions, molar conductivities variation with concentration: Kohlrausch's law and its applications
	Electrochemical cells- Electrolytic and Galvanic cells, different types of electrodes, electrode potentials including standard electrode potential, half-cell and cell reactions, emf of a Galvanic Cell and its measurement: Nernst equation and its applications, Relationship between cell potential and Gibbs' energy change: Dry cell and lead accumulator, Fuel cells
Chemical Kinetics	Pressure, collision theory of bimolecular gaseous reactions (no derivation)
d and f Block Elements	Transition Elements
Purification and Characterization	Purification: Crystallisation. sublimation, distillation, differential extraction, chromatography - principles and their applications

of Organic Compounds	Quantitative analysis: Estimation of carbon. hydrogen. nitrogen. halogens. sulphur. phosphorus.
	Qualitative analysis: Detection of nitrogen, sulphur, phosphorus and halogens
	Calculations of empirical formula and molecular formulae: Numerical problems in organic quantitative analysis
Hydrocarbons	Classification of isomerism. IUPAC nomenclature, general methods of preparation, properties, and reactions

Chapters Deleted from NEET Physics Syllabus 2024

No unit has been deleted from NEET physics syllabus 2024. Only a few topics have been deleted from the syllabus.

Topics Deleted from NEET Class 11 Physics Syllabus

NEET UG deleted syllabus 2024 for physics class 11 is provided below:

Unit	Topics Deleted
Physical World and Measurement	Physics: Scope and excitement; nature of physical laws; Physics, technology, and society. Need for measurement: Length, mass, and time measurements, accuracy and precision of measuring instruments.
Kinematics	Elementary concepts of differentiation and integration for describing motion Scalar and vector quantities: Position and displacement vectors, general vectors, general vectors and notation, equality of vectors, multiplication of vectors by a real number
Laws of Motion	Equilibrium of concurrent forces: Lubrication
Rotational Motion	<ul style="list-style-type: none"> • Momentum conservation • Center of mass uniform rod
Gravitation	Geostationary satellites
Properties of Solids and Liquids	Shear , modulus of rigidity, poisson's ratio , elastic energy Reynold's number

	Qualitative ideas of Black Body Radiation , Wein's displacement law, and GreenHouse effect, Cp, Cv Newton's law of cooling and Stefan's law
Thermodynamics	Refrigerators and Heat Engines
Oscillations and Waves	<ul style="list-style-type: none"> ● Doppler effect ● Resonance ● Free, forced and damped oscillations (qualitative ideas only)

Topics Deleted from NEET Class 12 Physics Syllabus

NEET UG deleted syllabus 2024 for physics class 12 is provided below:

Unit	Topics Deleted
Electrostatics	Van de Graaff generator
	Free charges and bound charges inside a conductor
Current Electricity	Carbon resistors , color code for carbon resistors,
	Potentiometer-principle and applications to measure potential difference, and for comparing emf of two cells; measurement of internal resistance of a cell
	The flow of electric charges in a metallic conductor
Magnetic Effects of Current and Magnetism	<ul style="list-style-type: none"> ● Concept of magnetic field ● Oersted's experiment ● Cyclotron ● Magnetic dipole moment of a revolving electron ● Earth's magnetic field and magnetic elements ● Permanent magnets
Electromagnetic Induction and Alternating Currents	LC Oscillations (qualitative treatment only)
Optics	Reflection and refraction of plane wave at a plane surface using wavefronts

	<p>Optical instruments: Human eye, image formation and accommodation, correction of eye defects (myopia and hypermetropia) using lenses</p>
	<p>Scattering of light: blue color of the sky and reddish appearance of the sun at sunrise and sunset</p>
	<p>Microscopes and astronomical telescopes (reflecting and refracting) and their magnifying powers.</p>
Dual Nature of Matter and Radiation	<p>Davisson-Germer experiment (experimental details are to be omitted; only conclusion needs to be explained)</p>
Atoms and Nuclei	<p>Radioactivity: alpha, beta and gamma particles/ rays and their properties decay law</p>
	<p>Isotopes, Isobars, Isotones</p>
Electronic Devices	<p>Energy bands in solids (qualitative ideas only), Conductors and Insulators Junction transistor, transistor action, characteristics of a transistor; transistor as an amplifier (common emitter configuration) and oscillator Transistor as a switch</p>

Topics Added in NEET Physics Syllabus 2024

Unit	Topics Added
Kinematics	Resolution of Vector
Gravitation	Motion of a satellite , time period and energy of a satellite
Properties of Bulk Matter	Pressure due to a fluid column; Pascal's law and its applications. Effect of gravity on fluid pressure.
Behavior of Perfect Gas and Kinetic Theory	RMS speed of gas molecules: Degrees of freedom. Avogadro's number.
Magnetic Effects of Current and Magnetism	Effect of temperature on magnetic properties.



Dual Nature of Matter and Radiation	Dual nature of radiation
-------------------------------------	--------------------------

New Unit Added in NEET Physics Syllabus- Experimental Skills

NMC has introduced a new unit in NEET physics syllabus this year. It is named 'Experimental Skills'. **This unit is added to test the candidate's familiarity with the basic approach and observations of 18 experiments and activities.** The list of 18 topics included in this unit include:

- Vernier calipers- its uses to measure the internal and external diameter and depth of a vessel.
- Screw gauge-its uses to determine thickness diameter of thin sheet/wire.
- Simple pendulum-dissipation of energy by plotting a graph between the square of amplitude and time.
- Metre Scale - the mass of a given object by the principle of moments.
- Young's modulus of elasticity of the material of a metallic wire.
- Surface tension of water by capillary rise and effect of detergents.
- Coefficient of Viscosity of a given viscous liquid by measuring terminal velocity of a given spherical body.
- Speed of sound in air at room temperature using a resonance tube.
- Specific heat capacity of a given solid and liquid by method of mixtures.
- The resistivity of the material of a given wire using a meter bridge.
- The resistance of a given wire using Ohm's law.
- Resistance and figure of merit of a galvanometer by half deflection method.
- 13. The focal length of Convex mirror, Concave mirror, and Convex lens using the parallax method.
- The plot of the angle of deviation vs angle of incidence for a triangular prism.
- Refractive index of a glass slab using a traveling microscope.
- Characteristic curves of a p-n junction diode in forward and reverse bias.
- Characteristic curves of a Zener diode and finding reverse breakdown voltage.
- Identification of Diode. LED, Resistor. A capacitor from a mixed collection of such item

Chapters Deleted from NEET Biology Syllabus 2024

The number of units are the same. In 7 out of the 10 units, some chapters have been deleted this year. Also, 6 topics have been added to NEET 2024 syllabus for biology.

Topics Deleted from NEET Class 11 Biology Syllabus

NEET UG deleted syllabus 2024 for biology class 11 is provided below:

Unit	Topics Deleted
Diversity in Living World	Three domains of life, Tools for study of Taxonomy – Museums, Zoos, Herbaria, Botanical gardens, Angiosperms,

	Angiosperms classification up to class, characteristic features and examples
Structural Organization in Animals and Plants	Morphology, anatomy and functions of different systems (digestive, circulatory, respiratory, nervous and reproductive) of an insect (cockroach).
Human Physiology	Digestion and absorption; Alimentary canal and digestive glands; Role of digestive enzymes and gastrointestinal hormones; Peristalsis, digestion, absorption and assimilation of proteins, carbohydrates and fats; Caloric value of proteins, carbohydrates and fats; Egestion; Nutritional and digestive disorders – PEM, indigestion, constipation, vomiting, jaundice, diarrhea
	Reflex action; Sense organs; Elementary structure and function of eye and ear
Plant Physiology	<p>Transport in plants: Movement of water, gases and nutrients</p> <p>Cell to cell transport-Diffusion, facilitated diffusion, active transport</p> <p>Plant – water relations: Imbibition, water potential, osmosis, plasmolysis</p> <p>Long distance transport of water: Absorption, apoplast, symplast, transpiration pull, root pressure and guttation;</p> <p>Transpiration: Opening and closing of stomata</p> <p>Uptake and translocation of mineral nutrients:Transport of food, phloem transport, Mass flow hypothesis Diffusion of gases (brief mention)</p>

	<p>Seed dormancy; Vernalisation; Photoperiodism</p>
	<p>Mineral nutrition: Essential minerals, macro and micronutrients and their role; Deficiency symptoms; Mineral toxicity; Elementary idea of Hydroponics as a method to study mineral nutrition; Nitrogen metabolism-Nitrogen cycle, biological nitrogen fixation</p>

Topics Deleted from NEET Class 12 Biology Syllabus

NEET UG deleted syllabus 2024 for biology class 12 is provided below:

Unit	Topics Deleted
Reproduction	<p>Reproduction in organisms: Reproduction, a characteristic feature of all organisms for continuation of species; Modes of reproduction – Asexual and sexual; Asexual reproduction; Modes-Binary fission, sporulation, budding, gemmule, fragmentation; vegetative propagation in plants.</p>
Biology and Human Welfare	<p>Improvement in food production; Plant breeding, tissue culture, single cell protein, Biofortification; Apiculture and Animal husbandry.</p>
	<p>Tobacco Abuse</p>
Ecology and Environment	<p>Organisms and environment: Habitat and niche; Population and ecological adaptations</p>
	<p>Biodiversity and its conservation: Sacred Groves.</p>

	<p>Environmental issues: Air pollution and its control; Water pollution and its control; Agrochemicals and their effects; Solid waste management; Radioactive waste management; Greenhouse effect and global warming; Ozone depletion; Deforestation; Any three case studies as success stories addressing environmental issues.</p>
	<p>Nutrient cycling (carbon and phosphorous); Ecological succession; Ecological Services fixation, pollination, oxygen release.</p>

Topics Added in NEET Biology Syllabus 2024

Surprisingly, frogs have been included under the anatomy of an insect. Under human diseases, chikungunya and dengue have been included for the first time in NEET syllabus.

Unit	Topics Added
Structural Organization in Animals and Plants	Family (malvaceae, Cruciferae, leguminosae, compositae, gramineae)
	Morphology, anatomy and functions of different systems (digestive, circulatory, respiratory, nervous and reproductive) of an insect (frog). (Brief account only)
Cell Structure and Function	Classification and nomenclature of enzymes
Genetics and Evolution	Protein biosynthesis
Biology and Human Welfare	Dengue, Chikungunya