

NERIST NEE Syllabus 2016

NERIST NEE Syllabus 2016 is available here. Candidates who are searching for the NERIST Entrance Examination Syllabus can reach the right place. National Eastern Regional Institute of Science & Technology has released the notification for the candidates to provide admissions into the various certificate, Diploma, Engineering Courses at NERIST University. Students who wish to apply for the NERIST Entrance Exam will be looking for the NERIST NEE Exam Syllabus. Candidates can check the NERIST NEE 2016 Syllabus on our recruitment.guru website. Students can get the NERIST NEE Syllabus 2016 through the direct link provided below. Bookmark our page for latest updates regarding NERIST NEE Syllabus 2016, Previous Papers, Exam Pattern.

NERIST NEE Notification

NERIST

National Eastern Regional Institute of Science & Technology is abbreviated as NERIST. The NERIST University was established on 04th March 2016. It was a Deemed University entirely controlled by Ministry of Human Resource Department. NEE Exam is conducted for the candidates who wish to complete their Engineering in NERIST. Interested candidates can apply for this NERIST Entrance Exam 2016 on or before the last date. NERIST Releases Notification for the candidates. Students who will apply for the NERIST Entrance exam can check the NERIST NEE Syllabus 2016 after applying to the NEE Exam. NERIST NEE Syllabus 2016 is provided below for the guidance of the candidates.

NERIST Entrance Exam Pattern 2016

Students who are going to appear in the NERIST Entrance Exam can check the Exam Pattern along with the NERIST NEE Syllabus 2016 Provided below. NERIST will conduct NEE Exam in three sections namely NEE-I and NEE-II and NEE-III. Candidates can analyze the NEE Exam Paper with the help of NERIST Exam Pattern. We will update soon the latest information related to the NERIST NEE 2016 Exam according to the NERIST Board at its official site.

NERIST NEE I Exam Pattern

NERIST NEE Syllabus 2016 NERIST Entrance Exam Pattern www.nerist.ac.in NEE-I Exam consists of objective type Multiple Choice Questions For 150 Marks.

NERIST NEE Syllabus 2016 NERIST Entrance Exam Pattern www.nerist.ac.in Duration of the NERIST NEE-I Exam will be 3 hours.

NERIST NEE Syllabus 2016 NERIST Entrance Exam Pattern www.nerist.ac.in 0.25 will be deducted for each wrong answer.

NERIST NEE Syllabus 2016 NERIST Entrance Exam Pattern www.nerist.ac.in NERIST NEE-I Exam Paper consists of four Sections.

S. No	Section	Subject	Marks	No Of Questions
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1.	Section A	Physics	25 marks	25 questions of 1 mark
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2.	Section B	Chemistry	25 marks	25 questions of 1 mark
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3.	Section C	Biology	25 marks	25 questions of 1 mark
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4.	Section D	Mathematics	75 marks	
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25 questions of 1 mark

25 questions of 2 mark

NERIST NEE-II Exam Pattern

NEE-II Exam consists of Objective type Multiple Choice Questions For 150 Marks.

Duration of the NERIST NEE-II Exam will be 3 hours.

0.25 will be deducted for each wrong answer.

NERIST NEE-II Exam Paper consists of four Sections.

There shall be different question papers for three streams.

S.NO	Course	Subject	Marks	No of Questions
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1.	10+2 PCM	Physics	45	25 questions of 1-mark 10 questions of 2-marks
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2.	Chemistry		45	25 questions of 1-mark 10 questions of 2-marks
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3.	Mathematics		60	30 questions of 1-mark 15 questions of 2-marks each
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4.	10+2 PCB	Physics	45	25 questions of 1-mark 10 questions of 2-marks
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5.	Chemistry		45	25 questions of 1-mark 10 questions of 2-marks
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6.	Biology		60	30 questions of 1-mark 15 questions of 2-marks each
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S.NO	Course	Subject	Marks	No of Questions
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1.	10+2 (Vocational) / ITI / NERIST Certificate			in any trade
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Physics 25 25 questions of 1-mark

2. Chemistry 25 25 questions of 1-mark

3. mathematics 30 30 questions of 1-mark

4. Vocational Subject 70 30 questions of 1-mark

20 questions of 2-mark

NERIST NEE-III Exam Pattern

NEE III Exam consists of Objective type Multiple Choice Questions For 150 Marks.

Duration of the NERIST NEE-III Exam will be 3 hours.

0.25 will be deducted for each wrong answer.

NERIST NEE-III Exam Paper consists of four Sections.

S.NO	Section	Subject	Marks	Marks/Question
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1.	A	Physics	25	25 questions of 1 mark
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2.	B	Chemistry	25	25 questions of 1 mark
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3.	C	Mathematics	30	30 questions of 1 mark
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4.	D	Brach Subject	70	30 questions of 1 mark
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20 questions of 2 mark

NERIST NEE Syllabus 2016

NERIST NEE-I Syllabus

SECTIONS

Section-A Physics 35 Marks.

Section-B Chemistry 35 Marks.

Section-C Mathematics 80 Marks.

NERIST NEE I 2016 Exam Syllabus – Physics

Measurement in science and technology.

Structure of atom.

Motion.

Gravitation.

Work, energy and power.

Heat.

Wave Motion and Sound.

Light reflection and refraction.

Optical instruments.

Electricity, its heating and chemical effects.

Magnetic effects of electric current.

Nuclear fission and fusion.

The universe.

NERIST NEE I 2016 Exam Syllabus – Chemistry

Matter around us.

Atomic Structure.

Classification of Elements.

Chemical Bonding.

Chemical reactions and Some basic concepts.

Energetics.

Non – Metals.

Bio Mass.

Environmental Pollution.

NERIST NEE I 2016 Exam Syllabus – Mathematics

Algebra.

Polynomials.

Rational Expressions.

Linear Equations in one & two variables.

Quadratic Equations.

Arithmetic Progression.

Geometry.

Lines, Angles and Triangles.

Parallelograms.

Circles.

Trigonometry.

Mensuration.

Statistics and Probability.

Coordinate Geometry.

NERIST NEE-II Syllabus

SECTIONS

Section – A Physics 45 marks. (Common for 10+2 PCM as well as PCB Candidates)

Section – B Chemistry 45 marks. (Common for 10+2 PCM as well as PCB Candidates)

Section – C Mathematics 60 marks. (For 10+2 PCM Candidates)

Section – D Biology 60 marks. (For 10+2 PCB Candidates)

NERIST NEE-II 2016 Syllabus – Physics

Physical World and Measurement.

Kinematics.

Laws of Motion.

Work, Energy and Power.

Motion of system of particles and Rigid Body.

Gravitation.

Mechanics of Solids and Fluids.

Heat and Thermodynamics.

Oscillations.

Waves.

Electrostatics.

Current Electricity.

Magnetic effects of current & magnetism.

Electromagnetic Induction & Alternating currents.

Electromagnetic Waves.

Optics.

Dual Nature of Matter and Radiation.

Atomic Nucleus.

Solid and Semi – conductor Devices.

NERIST NEE II 2016 Chemistry Syllabus

Some Basic concepts of chemistry.

Structure of Atoms and Chemical Bonding.

States of Matter.

Solutions.

Chemical Thermodynamics.

Chemical Equilibrium.

Chemical Kinetics.

Surface Chemistry.

Redox Reactions.

Electrochemistry.

s – Block Elements.

p – Block Elements.

d – & f – Block Elements.

Co – ordination and Organo – metallic Compounds.

Organic Chemistry.

Chemistry in Everyday life.

NERIST NEE-II 2016 Mathematics Syllabus (For PCM Candidates)

Algebra.

Relations and functions.

Complex Numbers.

Theory of quadratic equation.

Sequences and series.

Permutations and combinations.

Mathematical Induction.

Binomial theorems.

Mathematical logic.

Matrices and determinants.

Boolean Algebra.

Trigonometry.

Coordinate Geometry.

Circles.

Geometry of Three Dimension.

Calculus.

Differentiation.

Application of Derivatives.

Indefinite integrals.

Definite Integrals.

Differential Equations.

Statics and Dynamics.

Elementary Dynamics.

Probability.

NERIST NEE-II 2016 Biology Syllabus (For PCB Candidates)

Origin and Evolution of life.

Cell biology.

Physiology of plants and animals.

Ecology and Environment.

Morphology of plants and animals.

Application of biology.

NERIST NEE II 2016 Vocational

Section – A Physics 25 marks.

Section – B Chemistry 25 marks.

Section – C Mathematics 30 marks.

Section – D Vocational Subject 70 marks.

NERIST NEE-II 2016 Vocational Physics Syllabus

Units and dimensions.

Laws of motion.

Work, Energy and Power.

Rotational motion.

Gravitation.

Properties of matter.

Heat and thermodynamics.

Oscillations and waves.

Electrostatics.

Magnetic effect of current.

Magnetism.

Electromagnetic induction and alternating current.

Ray Optics and Optical Instruments.

NERIST NEE-II Vocational Chemistry Syllabus

Structure of Atom.

Chemical Bonding.

Periodic Properties of Elements.

Gaseous State.

Chemical Equilibrium.

Redox Reactions.

Organic chemistry.

Organic compounds with one functional group.

NERIST NEE-II Vocational Mathematics Syllabus

Trigonometry.

Algebra.

Coordinate Geometry (2D).

Coordinate Geometry (3D).

Vector Algebra.

Differential Calculus.

Integral Calculus.

Statistics.

NERIST NEE II Vocational Subject

AE (FE) – Agricultural Engineering (Farm Equipment Trade)

Common Engineering Sciences

Engineering Drawing.

Work Shop.

Mechanics.

Electricity.

Farm Equipment Trade

Tractors and power tillers.

Farm machinery.

AE (FE) – Agricultural Engineering (Food Processing Trade)

Common Engineering Sciences

Engineering Drawing.

Work Shop.

Mechanics.

Electricity.

Food Processing Trade.

Civil Engineering Construction Technology or Draftsman / Surveyor Trade

Common Engineering Sciences

Engineering Drawing.

Work Shop.

Mechanics.

Electricity.

Construction Technology or Draftsman ship / Surveyor Trade

Construction and Maintenance.

Construction Material.

Surveying.

Water Supply and Sanitation.

Civil Engineering Drawings.

Estimation and Quantity Surveying.

Electronics and Communication Engineering: Electronics Technology or Electronics Maintenance Trade

Common Engineering Sciences

Engineering Drawing.

Work Shop.

Mechanics.

Electricity.

Electronics Technology or Electronics Maintenance Trade

Circuits and Devices.

Fundamentals of Communication & Radio Engineering.

V. and Audio System.

Circuits and Devices.

Instruments.

Electrical Engineering: Electrical Technology or Electrical Maintenance Trade

Common Engineering Sciences

Engineering Drawing.

Work Shop.

Mechanics.

Electricity.

Electrical Technology or Electrical Maintenance Trade

Basic Electricity.

Electrical Machine.

Instruments.

Electrical Appliances.

House Wiring.

Electrical Drawing.

Mechanical Engineering: Mechanical Craftsmanship Trade

Common Engineering Sciences

Engineering Drawing.

Work Shop.

Mechanics.

Electricity.

Mechanical Craftsmanship Trade.

Mechanical Engineering: Automobile Technology Trade

Common Engineering Sciences

Engineering Drawing.

Work Shop.

Mechanics.

Electricity.

Automobile Technology Trade.

Mechanical Engineering: Refrigeration & Air Conditioning Trade

Common Engineering Sciences

Engineering Drawing.

Work Shop.

Mechanics.

Electricity.

Refrigeration & Air Conditioning Trade.

NERIST NEE III 2016 Syllabus

SECTIONS

Section-A Physics 25 marks.

Section-B Chemistry 25 marks.

Section-C Mathematics 30 marks.

Section-D Branch Subject 70 marks.

NERIST NEE III 2016 Syllabus – Physics

Units.

Mechanics.

Properties of Solids.

Properties of Liquids.

Heat & Thermodynamics.

Sound.

Light.

Electrostatics.

Current Electricity.

Magnetic Properties of Materials.

Electromagnetism.

Electromagnetic Induction.

Modern Physics.

Radio-activity.

Semiconductors.

NERIST NEE III 2016 Syllabus – Chemistry

Physical Chemistry.

States of Matter.

Solution and Colloidal solution.

Colloidal solutions.

Thermodynamics and Thermochemistry.

Kinetics and Chemical Equilibrium.

Atomic Structure and Chemical Bonding.

Inorganic Chemistry.

Ionic Bonds.

Metallic bonds.

Periodic Properties of Elements.

Metallurgy.

Ferrous metallurgy.

Non-ferrous metallurgy.

Alloys.

The chemistry of some chemicals.

Organic Chemistry.

Introduction.

Hydrocarbons.

Compounds with functional groups containing oxygen.

Industrial Chemistry.

Fuels.

Water.

Corrosion and its protection.

Environmental Pollution.

NERIST NEE III 2016 Syllabus – Mathematics

Algebra.

Trigonometry.

Coordinate Geometry (2D).

Differential Calculus.

Integral Calculus.

Differential Equation.

Coordinate Geometry (3D).

Vector Calculus.

Coordinate Geometry (3D).

Probability.

NERIST NEE III 2016 Syllabus – Branch Subject

Agricultural Engineering

General Engineering Science.

Properties of fluids.

Measurement of distance and areas.

Farm Power and Machinery.

Soil and Water Conservation Engineering.

Hydrology.

Post Harvest / Process, Food Engineering and Farm Structures.

Civil Engineering

Strength of Materials & Theory of Structures.

Water Resources Engineering: Hydrology.

Fluid Mechanics.

Geotechnical Engineering.

Highway and Railway Engineering.

Railways.

Surveying.

Structural Design.

Environmental Engineering.

Computer Science and Engineering

Operating System & System Software.

Digital Electronics & Elements of Logic Design.

Microprocessor, Computer Architecture & Organization.

Programming Language Concepts.

Data Structures.

Electronics & Communication Engineering

Electronic Devices and Circuits.

Devices.

Circuits.

Digital Devices and Circuits.

Microprocessors.

Semi Conductor Memories.

Electronic Instrumentation and Measurements.

Networks-Filters And Microwave Engineering.

Filters.

Communication Engineering.

Electrical Engineering

Electrical Circuits.

Electrical Engineering Materials.

Electrical Instruments and Measurements.

Electrical Machines.

Transformers.

Three phase induction machines.

Three Phase Synchronous Machines.

Generation, Transmission and Distribution.

Generation.

Transmission.

Substation.

Electrical Estimation and Costing.

Electrical Power Utilization.

Power Electronics.

Digital Electronics.

Computer Programming.

Mechanical Engineering

Engineering Mechanics & Strength Of Materials.

Engineering Materials.

Design of Machine Element.

Hydraulics and Hydraulic Machines.

Thermal Engineering.

Theory of Machines.

Production and Industrial Engineering.