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Greetings dear aspirant Modern Physics is the most important and interesting branch of physics. It is the easiest and scoring part. Really you would find it really simple and easy. The NCERT book is the most worthy and best. Following are the chapters that come under Modern Physics : 1. Dual nature of radiation and matter 2. Atoms 3. Nuclei 4. Semiconductors and electronic devices 5. Communication You can have a more detailed look at the syllabus for EAMCET examination from the above link. Hope this helps!! All the best for your future endeavours Share — copy and redistribute the material in any medium or format for any purpose, even commercially. Adapt — remix, transform, and build upon the material for any purpose, even commercially. The licensor cannot revoke these freedoms as long as you follow the license terms. Attribution — You must give appropriate credit , provide a link to the license, and indicate if changes were made . You may do so in any reasonable manner, but not in any way that suggests the licensor endorses you or your use. ShareAlike — If you remix, transform, or build upon the material, you must distribute your contributions under the same license as the original. No additional restrictions — You may not apply legal terms or technological measures that legally restrict others from doing anything the license permits. You do not have to comply with the license for elements of the material in the public domain or where your use is permitted by an applicable exception or limitation . No warranties are given. The license may not give you all of the permissions necessary for your intended use. For example, other rights such as publicity, privacy, or moral rights may limit how you use the material. Get answers from students and experts Ask Hello aspirant, Following are the chapters that are coming under modern physics : Dual nature of radiation and matter. Atoms. Nuclei. Semiconductors and electronic devices. Communication. Further, I would like to mention some of the important chapters that will be coming in JEE mains 2022 for PHYSICS paper and their Chapter wise weightage as well, which also contains the chapters in Modern physics. Modern Physics:- 20 marks Heat and Thermodynamics :- 12 marks Optics:- 12 marks Current Electricity :- 12 marks Electrostatics :- 12 marks Magnetics :- 8 marks Unit, Dimension and Vector:- 4 marks Kinematics :- 4 marks Laws of motion :- 4 marks Work, Power and Energy :- 4 marks Centre Of Mass, Impulse and Momentum :- 4 marks Rotation :- 4 marks Gravitation :- 4 marks Simple Harmonic Motion :- 4 marks Solids and Fluids :- 4 marks Waves :- 4 marks Electromagnetics Induction and AC :- 4 marks FOR MATHEMATICS : Coordinate Geometry :- 20 marks Limits, Continuity and Differentiability :- 12 marks Integral Calculus :- 12 marks Complex numbers and Quadratic Equation :- 8 marks Matrices and Determinants :- 8 marks Statistics and Probability :- 8 marks Vector Algebra :- 8 marks Sets, Relation and Function:- 4 marks Permutations and Combinations :- 4 marks Binomial Theorem and Its Application:- 4 marks Sequences and Series:- 4 marks Trigonometry :- 4 marks Mathematical Reasoning :- 4 marks Differential Equation :- 4 marks Statics and Dynamics :- 4 marks Differential Calculus :- 4 marks FOR CHEMISTRY : Transition Elements and Coordination Chemistry :- 12 marks Periodic table and Representative Elements :- 12 marks Thermodynamics And Gaseous State:- 8 marks Atomic Structure:- 8 marks Chemical Bonding:- 8 marks Chemical And Ionic Equilibrium:- 8 marks Solid State And Surface Chemistry :- 4 marks Nuclear Chemistry And Environment:- 8 marks Mole Concept :- 4 marks Redox Reaction :- 4 marks Electrochemistry :- 4 marks Chemical Kinetics:- 4 marks Solution and Colligative Properties :- 4 marks General Organic Chemistry:- 4 marks Stereochemistry:- 4 marks Hydrocarbon :- 4 marks Alkyl Halides :- 4 marks Carboxylic Acid and their Derivatives:- 4 marks Carbohydrates,amino acid and Polymers :- 4 marks Aromatic Compounds :- 4 marks Further, to know more about the JEE mains syllabus and also the chapter wise weightage in JEE mains, click the link below : I hope that this will help. Dear aspirant hope you are doing well.. Thee JEE Mains syllabus PDF of Physics link is Section A Physics and measurement Rotational motion Thermodynamics Kinematics Work, energy and power Properties of solids and liquids Gravitation Laws of motion Oscillations and waves Electronic devices Kinetic theory of gases Current electricity Communication systems Electromagnetic induction and alternating currents Magnetic effects of current and magnetism Optics Electromagnetic waves Atoms and nuclei Electrostatics For detailed syllabus of jee mains of physics/chemistry/ maths . Click on the link below Hope it's helpful thank you Get answers from students and experts Ask Link Copied Thanks! Your report is submitted, the author will be informed about it Photoelectric effect. Matter waves. Atomic structure. X-RAYS. Nuclear physics. Radioactivity. Atomic theory and the evolution of the atomic model in general. Black-body radiation. Franck–Hertz experiment. Geiger–Marsden experiment (Rutherford’s experiment) Gravitational lensing. Michelson–Morley experiment. Photoelectric effect. Quantum thermodynamics. The course covers Special Relativity, Quantum Mechanics, Atomic Physics, Statistical Physics, Solid State Physics, Nuclear Physics, Particle Physics, and Cosmology. The course text is “Modern Physics” 3rd ed. by Serway, Moses and Moyer. Is modern physics easy? Modern physics is an important constituent of jee advanced physics. Questions asked in jee mains exam are easy and anyone who have prepared well for board exams can easily solve them at one go but for jee advance you must understand the topic as the problems can get tricky. See also Which is better Oswaal or Xam idea for Class 12? One of the big dilemmas arising from 20th century physics is that so much of modern physics is based on two pillars that came up in the early part of the last century,” he says. “One of them is relativity and the other is quantum mechanics. Relativity is a theory of gravity. Is NEET physics easier than Jee? Newton, Galileo and Einstein have all been called “Fathers of Modern Physics.” Newton was called this because of his famous law of motion and gravitation, Galileo for his role in the scientific revolution and his contributions on observational astronomy, and Einstein for his groundbreaking theory of relativity. Q. How can I score 180 in physics NEET without coaching? Physics asked in NEET exam is very calculative but not that difficult as of JEE. JEE physics is tricky as you cannot expect it to be easy. JEE Physics requires thorough knowledge of every concept of physics. Complete the paper by NCERT only. More than 95% of the NEET is prepared from NCERT only. If you’re reading the NCERT notes line by line, you will score 180/180 in NEET Physics. Is HC Verma enough for JEE mains? Hence, it is highly unlikely that Physics would be entirely scrapped. 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Answer. Modern physics is a survey of relativity, quantum mechanics, and a little particle physics. Quantum physics is a specific course in quantum mechanics and goes into much greater detail and more math. Who is known as the mother of physics? 1. Marie Curie. Is considered to this day, to be the Mother of Modern Physics. In 1898, together with her husband Pierre, she discovered the elements of polonium and radio for which she received a first Nobel Prize in Physics in 1903. Page 3 Photoelectric effect. Matter waves. Atomic structure. X-RAYS. Nuclear physics. Radioactivity. Atomic theory and the evolution of the atomic model in general. Black-body radiation. Franck–Hertz experiment. Geiger–Marsden experiment (Rutherford’s experiment) Gravitational lensing. Michelson–Morley experiment. Photoelectric effect. Quantum thermodynamics. 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Improve your time & pressure management skillsLearn in the language you are most comfortable with. Choose from any of our 8 languagesAIR 1|Delhi Judicial 2024Start your learning journey now!LearnPracticeImproveSucceed Sign Up Now &Daily Live Classes3000+ TestsStudy Material & PDFQuizzes With Detailed Analytics+ More BenefitsGet Free Access Now Physics is a prominent field of science that is filled with a number of remarkable and astonishing experiments, facts and discoveries which have been life-changing contributions. Modern Physics is a subfield of Physics and consists of a variety of ground-breaking inventions and concepts. Dealing with post-Newtonian concepts, Modern Physics is based on two major milestones of the 20th century, i.e. Relativity and Quantum Mechanics. Oftentimes students preparing for class 12th boards or competitive exams like JEE Mains, JEE Advanced etc have to cover this topic. Here is a blog that aims to elucidate important topics, formulas and concepts of modern physics. Must Read: Basic Physics Formulas & Notes for Competitive Exams Being a vital part of the physics syllabus for Class 12, modern physics consists of a variety of foundational topics and some of these have been mentioned below: Black-Body Radiation Atomic Theory and the Evolution of the Atomic Model in General Michelson- Morley Experiment Geiger-Marsden Experiment (Rutherford’s Experiment) Quantum Thermodynamics Photoelectric Effect Radioactive Phenomena in General Wave-Particle Duality Perihelion Precession of Mercury SolidStern-Gerlach ExperimentFrank-Hertz Experiment Gravitational Lensing Check Out: Class 12th Physics Electrostatics Notes In order to cover different topics of modern physics, it is important to go through the formulas which you must remember as they will help you solve numerical problems in competitive exams. There are different formulas required to crack derivations and concept-based questions. Here are the major formulas of Modern Physics that you must know about: Quantity Formula Mass-EnergyE = mc2Photoelectric Effecthf=Φ+EkRadioactive Half-Life Rydberg Equation 1/λ = RZ2(1/n12 – 1/n22)Relativistic Energy Length Contraction Δl=Δl01−√−(vc)2Relative VelocityV_{AB} = V_{A}– V_{B}Time Dilation t = t0/(1-v2/c2)1/2 You might be interested in: Physics Syllabus for Class 12 While gearing up for engineering entrance exams or any other rigorous competitive exams, you must learn about the basic core concepts of modern physics. Making notes while practising a subject will also help you in the last-moment revision. Mentioned below are important notes for this topic: Effect of Collector’s Potential on Photoelectric Current Current for zero value potential reflects that the electrons are ejected from the given surface of the emitter with random energy.Due to a change in potential, the electrons gradually changing in number reflects that the ejected electrons possess a variety of velocities.For a negative potential of the collector, the current is reduced to zero indicating that is some upper limit of the energy that electrons emit.The stopping potential does not depend on the intensity of the light. The current is dependent on the intensity of the incident light. Laws of Photoelectric Effect Referred to as an instantaneous process, the photoelectric effect is explained as a phenomenon which occurs when electrons are emitted from a metal surface when the light of an adequate frequency is incident upon.The photoelectric current is independent of the frequency of light and is directly proportional to the intensity of light.The maximum velocity of the electrons (stopping potential) is dependent on the frequency of the incident light.Threshold Frequency is the minimum frequency below which the emission of electrons stops. Bohr’s Atomic Model The nucleus which is the central part of the atom contains a positive charge and almost the entire mass of the atom. Also, the electrons revolve around the nucleus in a fixed circular orbit.Stationery Orbits/Permitted Orbits are the fixed circular paths in which electron revolves without radiating any energy.The electrons possess an angular momentum (L= mvr) while revolving in the stationery which is an integral multiple of h/2 L= mvr= nh/2 In the above-mentioned formula, h is Planck’s constant and n is an integer While moving, the electron can change their orbits. When they absorb the energy they move into a higher other orbit and the emission of energy takes place whenever an electron moves into a lower orbit. If f is the frequency of radiant energy, Source: Encyclopedia Britannica Laws of Radioactivity Radioactivity takes place due to the disintegration of a nucleusThe law of conservation of charge is also interconnected with the laws of radioactivity. External conditions like Temperature, Pressure etc. do not affect the rate of disintegration.Each of the product disintegrations is a new element which has chemical and physical properties distinct from that of the parent atom. Take a look at the Top 10 Toughest Exams in India There have been a number of different experiments which have marked the history of Modern Physics. There are several that help in providing a deeper understanding of the structure of matter and atoms. A few examples of these discoveries are: Wilhelm Röntgen in 1895 discovered the existence of X-rays.Max Planck was a German physicist. In the year 1900, he proposed that the energy charged by the electromagnetic field can be quantified. In 1905, Albert Einstein, through the theory of relativity explained and showed that references move at very high speeds. That speed is close to the speed of light propagation. Also, check out 15 Must Read Bestselling Quantum Physics Books Is current physics a class 11 or a class 12? Particle-Wave Duality, Atomic Theory, Thermodynamics, and Oscillations and Waves are among the topics covered in class 11. Modern Physics chapters in class 12 are as follows: There is a photoelectric effect. What are the themes covered by modern physics? It mostly consists of special relativity, relativistic quantum mechanics, the Dirac equation and Feynman diagrams, quantum fields, and general relativity. The goal of modern physics is to cover these issues thoroughly. Is current physics in class 12 simple? It depends on the student; some of the most difficult and conceptual parts of Physics require time and patience to learn. Hopefully, these notes and formulas of modern physics have helped you in getting a stronghold over the concept. Confused about how to make the right career choice after class 12th? Book an online session with our Leverage Edu experts and let us help in making an informed decision to soar towards your dream career! Atomic theory and the evolution of the atomic model in general. Black-body radiation. Franck–Hertz experiment. Geiger–Marsden experiment (Rutherford’s experiment) Gravitational lensing. Michelson–Morley experiment. Photoelectric effect. Quantum thermodynamics. The course covers Special Relativity, Quantum Mechanics, Atomic Physics, Statistical Physics, Solid State Physics, Nuclear Physics, Particle Physics, and Cosmology. The course text is “Modern Physics” 3rd ed. by Serway, Moses and Moyer. What are the modern physics chapters in class 11 and 12? Photoelectric effect. Matter waves. Atomic structure. X-RAYS. Nuclear physics. Radioactivity. See also What forces act on a fishing rod?Is modern physics easy? Modern physics is an important constituent of jee advanced physics. Questions asked in jee mains exam are easy and anyone who have prepared well for board exams can easily solve them at one go but for jee advance you must understand the topic as the problems can get tricky. One of the big dilemmas arising from 20th century physics is that so much of modern physics is based on two pillars that came up in the early part of the last century,” he says. “One of them is relativity and the other is quantum mechanics. Relativity is a theory of gravity. Is HC Verma enough for JEE mains? H.C. Verma is indeed a good book for JEE preparation and it contains an in-depth explanation of the topics. Candidates can use it to gain a deeper understanding of the concepts. However, for numerical and to practice solving problems, you can make use of additional books like D.C. Pandey, etc. Why is it called modern physics? It is based on two significant twentieth-century breakthroughs: relativity and quantum theory. The word “modern physics” refers to current physics. This name alludes to the breakthrough that occurred following Newton’s laws, Maxwell’s equations, and thermodynamics, which are all considered “classical” physics. Rotational Motion. Experimental Physics and Instruments. Center of Mass and Conservation of Momentum. Laws of Motion. Let us look at the below-mentioned concepts from the Laws of Motion. Principles of Communication. Centre of Mass and Collisions. Circular Motion. Heating and Chemical Effects of Current. See also Is SL Arora good for JEE theory? Newton, Galileo and Einstein have all been called “Fathers of Modern Physics.” Newton was called this because of his famous law of motion and gravitation, Galileo for his role in the scientific revolution and his contributions on observational astronomy, and Einstein for his groundbreaking theory of relativity. Q. Is physics important for NEET? The chapters encompass kinematics, fluid mechanics, gravitation, friction, laws of motion, light waves, optics, work and energy, circular motion, etc. How many questions are asked from modern physics in NEET? Students must prioritize Modern Physics from the Class 12 syllabus for NEET 2022. Electrostatics, Optics, Magnetism, and Current Electricity also carry good weightage so you should focus on these topics. Basically, there are two types of Physics, Modern Physics and Classical Physics. Is modern physics difficult for JEE? NEET Physics Exam Pattern 2022 Total Marks: The total Marks in NEET Physics are 180 and the total number of questions to be attempted are 45. Type of Questions: NEET Physics will consist of Objective type or Multiple Choice Questions. Is JEE Mains physics easy? Modern Physics is a very high scoring subject from the JEE Advanced syllabus. Many aspirants tend to ignore it as they think this segment has very little weightage in the exam. 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But in 12th physics you need only to learn the formula and you can easily solved the numerical. And electric current is main part of the 12th . What is the difference between quantum physics and modern physics? Most often classical physics refers to pre-1900 physics, while modern physics refers to post-1900 physics which incorporates elements of quantum mechanics and relativity. What are the 5 branches of physics? The Classical mechanics. Statistical mechanics and Thermodynamics. Electronics and Electromagnetism. The Relativity theory. Quantum mechanics. Page 3 Atomic theory and the evolution of the atomic model in general. Black-body radiation. Franck–Hertz experiment. Geiger–Marsden experiment (Rutherford’s experiment) Gravitational lensing. Michelson–Morley experiment. Photoelectric effect. Quantum thermodynamics. The course covers Special Relativity, Quantum Mechanics, Atomic Physics, Statistical Physics, Solid State Physics, Nuclear Physics, Particle Physics, and Cosmology. 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NEET Physics Exam Pattern 2022 Total Marks: The total Marks in NEET Physics are 180 and the total number of questions to be attempted are 45. Type of Questions: NEET Physics will consist of Objective type or Multiple Choice Questions. Is JEE Mains physics easy? Modern Physics is a very high scoring subject from the JEE Advanced syllabus. Many aspirants tend to ignore it as they think this segment has very little weightage in the exam. But if you go through the entire JEE Advanced syllabus, you will understand the chapter-wise weightage of Modern Physics. Modern physics. Current electricity. Newton’s laws of motion. Oscillations and sound. Heat and thermodynamics. See also What is science still model? The Physics section comes with application-based questions that are easy to solve but difficult to interpret. Students need to have a grip over the basic concepts to attempt such JEE Main Physics questions. According to experts, the difficulty level of Physics is moderate to easy. How can I score 180 in Physics NEET without coaching? You must not skip preparing for Physics for the NEET exam. In NEET, Physics makes up 25% of the exam. 50% is for Biology, and the other 25% is from Chemistry. Is NEET Physics easier than Jee? Complete the paper by NCERT only. More than 95% of the NEET is prepared from NCERT only. If you’re reading the NCERT notes line by line, you will score 180/180 in NEET Physics. Physics asked in NEET exam is very calculative but not that difficult as of JEE. JEE physics is tricky as you cannot expect it to be easy. JEE Physics requires thorough knowledge of every concept of physics. Which are the easiest chapters in physics for NEET? Hence, it is highly unlikely that Physics would be entirely scrapped. Students shall get more clarity on these two pressing issues once NTA releases the NEET 2022 information brochure. Is class 11 or 12 physics difficult? I have answered earlier that the most easiest chapter in physics is thermodynamics which cover 5-6 question of physics in neet ug. And thermodynamics is fully formula based chapter. Another easy chapter is modern physics and wave optics which is also formula based chapter. See also What is an echo for Class 9? The physics of 12 the is very easier than the 11th. Because in 11th physics you need many concept in mechanics or waves. But in 12th physics you need only to learn the formula and you can easily solved the numerical. And electric current is main part of the 12th . What is the difference between quantum physics and modern physics? Most often classical physics refers to pre-1900 physics, while modern physics refers to post-1900 physics which incorporates elements of quantum mechanics and relativity. What are the 5 branches of physics? The Classical mechanics. Statistical mechanics and Thermodynamics. Electronics and Electromagnetism. The Relativity theory. Quantum mechanics.