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Deleted syllabus of class 11 applied mathematics

The Central Board of Secondary Education (CBSE) has introduced a new subject from the year 2020-21. Those candidates who will be entering the Class 11th and those who are in the CBSE Class 12 can take up the CBSE Applied Mathematics subject (Code 241). CBSE Class 12 Applied Mathematics is available as a main or an academic elective subject. The CBSE Maths subject that is available now will not change. CBSE Class 12 Applied Mathematics 2021 The present CBSE Mathematics subject for Class 11 and 12 is designed for the Science Stream students of Class 11 and 12. The new curriculum or subject for Commerce and Arts students under CBSE Applied Mathematics (Subject code (241) is released by the board. It will be applicable for those students who wish to choose Economics, Commerce, and Social Science Subjects. Applied Mathematics is designed to cater to the students of the Commerce and Humanities stream. This subject focuses on the fundamentals of Business, Finance, Economics, etc. Also, check CBSE Class 12 Time Table 2021, CBSE Class 12 Applied Mathematics Syllabus 2021 The topics involved in Applied Mathematics are number theory, interpretation of data, commercial mathematics, set theory, algebra, relation & function, etc. The detailed CBSE Class 12 Applied Mathematics Syllabus is as follows: Unit I Numbers, Quantification, and Numerical Applications Modulo Arithmetic Congruence modulo Simple arithmetic functions Allegation or Mixture Numerical problems on boats and streams; partnership, pipes and cisternaces and games, scheduling Numerical inequalities Unit II Algebra A solution of simultaneous linear equations using the elimination method (up to 3 variables) Matrices and types of matrices Algebra of matrices Determinants The inverse of a matrix Cramer's rule and its application Simple applications of matrices and determinants including Leontief input-output model for two variables Unit III Calculus Application of derivatives Increasing/Decreasing functions Maxima and Minima Marginal cost and marginal revenue using derivatives Integration Indefinite integral as a family of curves Definite integral as area under the curve Integration of simple algebraic functions (primitive, by substitution, by parts) Application of Integration (consumer surplus-producer surplus) The differential equation (definition, order, degree) Formulating and solving a linear differential equation Application of differential equation (Growth and Decay Model) Unit IV Probability Probability Distribution Mathematical Expectation Variance Binomial Distribution Poisson distribution Normal distribution Basic applications and inferences Unit V Inferential Statistics Population and sample Parameter, statistic, and statistical inferences The t-Test (one-sample t-test and two independent groups t-test) Unit VI Index numbers and Time-based data Index numbers use of index numbers Construction of index numbers (simple and weighted) Tests of the adequacy of index numbers (unit test and time-reversal test) Time series, Time series analysis for univariate data sets Trend analysis by moving average method Trend analysis by the fitting of linear trend line using the least squares Unit VII Financial Mathematics Perpetuity, Sinking funds Valuation of Bonds (Present value approach and Relative price approach) Calculation of EMI Calculation of returns, nominal rate of return, effective rate of interest The compound annual growth rate Stock, shares, and debentures Linear method of depreciation Unit VIII Linear Programming Introduction and related terminologies (constraints, objective function, optimization) A mathematical formulation of linear programming problems Different types of linear programming problems (Transportation and assignment problem) Graphical method of solution for problems in two variables Feasible and infeasible regions (bounded and unbounded) Feasible and infeasible solutions, optimal feasible solutions (up to three nontrivial constraints) CBSE Class 12 Applied Mathematics Marking Scheme 2021 No. Units No. of Periods Marks I. Numbers, Quantification and Numerical Applications 20 06 II. Algebra 20 10 III. Inferential Statistics 10 06 IV. Index Numbers and Time-based data 30 10 V. Calculus 60 15 VI. Financial Mathematics 40 15 VII. Linear Programming 25 08 VIII. Probability 35 10 Total 240 80 Internal Assessment 20 CBSE Class 12 Applied Mathematics FAQs Q. Can a candidate opt for both 'Mathematics (041)' and 'Applied Mathematics' subjects? A. No, the candidates have to choose one option among the two subjects. Q. Will, there be any changes in the existing Mathematics Subject? A. No, the existing CBSE Mathematics Subject will not be changed. Q. If a candidate doesn't clear Mathematics (041) in the Board Exa, will he/she be eligible to take up the Applied Mathematics(241) or vice versa in the exam? A. No, the candidate will not be eligible to do so. These two subjects are totally separate and the candidates cannot interchange them. Q. Can a candidate who passed Standard Mathematics in Class X apply for Applied Mathematics in Class 11? A. Yes, the candidate can do so, but the choice completely depends on the courses chosen by the candidate. Q. Which are the topics involved in CBSE Class 12 Applied Mathematics? A. The CBSE Class 12 Applied Mathematics topics involve, Numbers, Quantification and Numerical Applications, Algebra, Inferential Statistics, Index Numbers, and Time-based data, Calculus, Financial Mathematics, Linear Programming, & Probability. School students | Representational image | Commons Text Size: New Delhi: The Central Board of Secondary Education (CBSE) will bring in Applied Mathematics for Classes 11 and 12 in all schools affiliated to it from the 2020-21 academic session. CBSE already offers two levels of Mathematics – basic (easy) and standard (tough) – for students at the level of Class 10. Basic is for those who do not want to continue studying Maths after Class 10 and standard is for those who want to continue with the subject. This was introduced last year on the basis of recommendations from experts. For the session that is about to begin, students in higher classes will have the option to choose between 'Mathematics' and 'Applied Mathematics', which will be for those who have opted for social sciences in Class 11. Applied Mathematics is more about practical application of the subject. The idea behind introducing this subject is to make it relevant for those who do not want to study core Mathematics but use it for data interpretation, business, finance, graphical representation and other similar things. "Mathematics is widely used in higher studies in the field of Economics, Commerce, Social Sciences and many others. It has been observed that the existing syllabus of Mathematics aligns well with Science subjects, but does not align well with Commerce or Social Science-based subjects in university education. Keeping this in mind, one more elective course in Mathematics syllabus will be offered for Sr. Secondary classes with an aim to provide students relevant experience in Mathematics which can be used in the fields other than Physical Sciences," a circular sent Wednesday to all CBSE affiliated schools, reads. According to the CBSE circular, the objectives behind introducing Applied Mathematics is "to develop an understanding of basic mathematical and statistical tools and their applications in the field of commerce (business/finance/economics) and social sciences; to model real world experiences/problems into mathematical expressions using numerical/algebraic/graphical representation and make sense from the data by organizing, representing, interpreting, analysing it". The board also said that in the future, all subjects could be offered at two levels with the students doing at least two to three of the six subjects at the standard level and the rest at the higher level. The board further explained that the students who want to opt for higher studies in Mathematics at the University level or want to take admission in Mathematics Honours course or Engineering course may take Mathematics. The Applied Mathematics course is designed to enhance the knowledge and skills of Mathematics that are required to be successful in different fields of their future career. The board has also advised teachers and parents to be mindful of the difference between two subjects before helping students opt for the subject. Also read: Modi govt wants CBSE, NCERT, colleges to revise academic calendar due to Covid-19 lockdown Subscribe to our channels on YouTube & Telegram Why news media is in crisis & How you can fix it India needs free, fair, non-hyphenated and questioning journalism even more as it faces multiple crises. But the news media is in a crisis of its own. There have been brutal layoffs and pay-cuts. The best of journalism is shrinking, yielding to crude prime-time spectacle. ThePrint has the finest young reporters, columnists and editors working for it. Sustaining journalism of this quality needs smart and thinking people like you to pay for it. Whether you live in India or overseas, you can do it here. Support Our Journalism this story is from April 01, 2020The Central Board of Secondary Education (CBSE) on Wednesday released announced introduction of 'Applied Mathematics (241)' as an academic elective subject at senior secondary level. NEW DELHI: The Central Board of Secondary Education (CBSE) on Wednesday released announced introduction of 'Applied Mathematics (241)' as an academic elective subject at senior secondary level. The course can be opted for the class XI students from this Academic year (2020-21) as an Academic elective. The CBSE notification states, "Mathematics is widely used in higher studies in the field of Economics, Commerce, Social Sciences and many others. It has been observed that the existing syllabus of Mathematics aligns well with Science subjects, but does not align well with Commerce or Social Science-based subjects in university education. By keeping this in mind, one more elective course in Mathematics syllabus will be offered for Sr. Secondary classes with an aim to provide students relevant experience in Mathematics which can be used in the fields other than Physical Sciences." Students who want to opt for higher studies in Mathematics at the University level as an Elective or want to take admission in Mathematics Honours course or Engineering course may take Mathematics (041). The Applied Mathematics (241) course is designed to enhance the knowledge and skills of Mathematics that are required to be successful in different fields of their future career. Therefore this course may be selected by students keeping this aspect in mind. The students who have passed Basic Mathematics (241) in class X are now allowed to offer the new academic elective Applied Mathematics (241) at Senior Secondary Level. Accordingly, the students who have passed Basic Mathematics (241) as well as Standard Mathematics (041) in Class X of CBSE exam are eligible for this course. However, it is once again clarified that students who have passed Mathematics-Basic (241) at Secondary level are not eligible to opt for Mathematics (041) at Sr. Secondary Level. The detailed modalities for opting this subject shall be made available at the time of registration for this course at class XI. It may be noted that those students who have earlier offered Applied Mathematics as a Skill Elective will offer Applied Mathematics as an Academic Elective in the current year 2020-21 for class XII. They have to follow the syllabus of Applied Mathematics offered as an Academic subject. Applied Mathematics Course will not be available from the current Academic Session 2020-21 as Skill subject. Here are some of the frequently asked questions about CBSE Applied Mathematics (241) subject: What is the difference between 'Mathematics' and 'Applied Mathematics'?The existing Mathematics (041) for Senior Secondary is a course meant for students to pursue pure Mathematics/Physical Sciences/Engineering at University Level. Whereas, 'Applied Mathematics' is meant for those students who want to learn Mathematics which is useful for better performance in their selected subjects. Can a student opt for both 'Mathematics' and 'Applied Mathematics'?No. There is only one option, either Mathematics or Applied Mathematics. Can I apply for Applied Mathematics as a skill subject in class 11 in the 2020-21 academic session?No one will be able to offer Applied Mathematics as skill subject in class XI from the academic session 2020-21. What is the difference between earlier Applied Mathematics(840) as skill subject and this newly introduced Applied mathematics(241) as an Academic Elective?The focus of any skill subject is on a particular job role. However Applied Mathematics as an elective focus on Mathematics as a discipline with special emphasis on its applications. The students are advised to visit the official website of the CBSE Board to get more details about Applied mathematics(241) subject. 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