

Lesson plan MIC Maths 1st Semester 2025-26

Month	Topics
Aug-25	Correlation for Bivariate Data: Concept and types of correlation, Karl Pearson Coefficient of correlation and rank correlation coefficient.
Sep-25	Linear Regression: Concept of regression, principle of least squares and fitting of straight line, properties of regression coefficients, standard error of estimate obtained from regression line, Angle between two lines of regression. Difference between correlation and regression.
Oct-25	Sample population, characteristics of good sample. Types of sampling techniques, Sampling Errors, Testing of Hypothesis-Meaning, Type -I and Type-II Errors
Nov-25	Level of significance, Definition of Chi-Square statistic test, Definitions of t-test and F- test.



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BCom 1st EVS Lesson Plan 2025-26

Month	Topics
Aug-25	Basic concepts: Environment definition and significance; habitat and ecological niche; biosphere; atmosphere; lithosphere and hydrosphere Factors affecting environment: A biotic factors _ light,; temperature, humidity, topography; Biotic factors - microorganisms, animals, plants and humans, Sources of energy: Renewable and non-renewable sources
Sep-25	Ecosystem: Desinition, types and functions; energy flow - ood chains, food webs, trophic structure; concept of productivity. Biogeochemical cycles: Hydrological, gaseous and sedimentary cycles. Biological invasion and its impact on environment.
Oct-25	Concept of population, population density, natality, mortality, carrying capacity, growth forms. Human population: National and international concerns, Indian efforts to control the growing population; Sustainable development.
Nov-25	Environmental pollution: Air pollution; Water pollution; Soil pollution; Noise pollution; Plastic pollution and Marine pollution Solid waste management; Ozone depletion; Global warming and climate change.

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Lesson Plan MDC Maths 3rd Semester 2025-26

<u>Month</u>	<u>Topics</u>
Jul-25	Introduction of Statistics, Basic knowledge of various types of data.
Aug-25	Collection, classification, and tabulation of data. Presentation of data: histograms, frequency polygon, frequency curve and ogives.
Sep-25	Measures of Central Tendency: Mean, median, mode, partition values. Measures of Dispersion: Absolute and relative measures of range, quartile deviation, mean deviation, standard deviation, coefficient of variation
Oct-25	Correlation for Bivariate Data: Concept and types of correlation, Karl Pearson Coefficient of correlation and rank correlation coefficient. Linear Regression: Concept of regression, principle of least squares and fitting of straight line, properties of regression coefficients, standard error of estimate obtained from regression line, Angle between two lines of regression. Difference between correlation and regression.
Nov-25	Sample population, characteristics of good sample. Types of sampling techniques, Sampling Errors, Testing of Hypothesis-Meaning, Type -I and Type-II Errors, Level of significance, Definition of Chi-Square statistic test, Definitions of t-test and F-test.


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Lesson Plan for MDC Mathematics 1st Semester

Month	Topics
August	An introduction to matrices and their types, Operations on matrices.
September	Complex numbers, Operations on complex numbers, polar form of the complex numbers, Modulus and argument of a complex number.
October	Arithmetic progression, Geometric progression, Harmonic progression, Arithmetic mean (A.M.), Geometric mean (G.M.), Relation between A.M. and G.M.
November	Straight lines: Slope of a line and angle between two lines, Different forms of equation of a line: parallel to co-ordinate axes, point-slope form, slope-intercept form, two-point form, general form; distance of a point from a straight line.



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Lesson Plan for SEC Maths 1st Sem 2025-26

Month	Topics
Aug-25	History of Vedic Mathematics and introduction to its Sutras and Upsutras. Addition in Vedic Mathematics: Without Carrying, Dot Math method; subtraction in Vedic Mathematics: Nikhilam Navatashcaramam Dashatah (All from 9 and last from 10). Fraction: Addition and Subtraction.
Sep-25	Multiplication of two numbers of two digits (Ekadhikena Purvena method), Multiplication of two numbers of three digits, (Ekanyunena Purvena method, Urdhva Tiryagbhyam method, Nikhilam Navatashcaramam Dashatah method), Combined Operations, Generating Tables (Nikhilam).
Oct-25	Division: Nikhilam Navatashcaramam Dashatah (two digits divisor), ParavartyaYojyet Method (three digits divisor). Divisibility: Ekadhikena Purvena Method (two digits divisor), Eknunen Purvena Method (two digits divisor) LCM, HCF.
Nov-25	Squares of any two digits numbers: Base method; Squares of numbers ending in 5: Ekadhikena Purvena Method. Square Roots: Dwandwa Yoga (Duplex) Method, Square root (four digit number). Cubing: Yavadunam Method, Cube root (six digit numbers)



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