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IIT JAM Study Plan for Mathematics

When you prepare for the JAM Exam, the most important question comes to your mind - How can I crack the exam? To get good marks in [IIT JAM Mathematics](#), you need to make a study schedule to start your preparation in a good way.

IIT JAM Preparation Strategy for 1st Month		
Weeks	Topics	Expected Time
Week-1	Differential Equations-I: Bernoulli's Equation, Exact Differential Equations, Integrating Factor	3-4 Hours Daily
Week-2	Differential Equations-II: Orthogonal Trajectories, Homogeneous Differential Equations, Variable Separable Method	3-4 Hours Daily
Week-3	Differential Equations-III: Linear Differential Equations of Second Order with Constant Coefficients, Method of Variation of Parameters, Cauchy-Euler Equation	4-5 Hours Daily
Week-4	Functions of One Real Variable: Limit, Continuity, Intermediate Value Property, Differentiation, Rolle's Theorem, Mean Value Theorem, L'Hospital Rule, Taylor's Theorem, Maxima and Minima.	4-5 Hours Daily

IIT JAM Study Plan for 2nd Month		
Weeks	Topics	Expected Time
Week-5	Functions of Two or Three Real Variables: Limit, Continuity, Partial Derivatives, Differentiability, Maxima and Minima	3-4 Hours Daily
Week-6	Sequences and Series of Real Numbers: convergence of sequences, bounded and monotone sequences, Cauchy sequences, Bolzano-Weierstrass theorem, absolute convergence, tests of convergence for series – comparison test, ratio test, root test; Power series (of one real variable), radius and interval of convergence, term-wise differentiation and integration of power series.	3-4 Hours Daily
Week-7	Integral Calculus-I: Double and Triple Integrals, Change of Order of Integration	4-5 Hours Daily
Week-8	Integral Calculus-III: Calculating Surface Areas and Volumes Using Double Integrals, Calculating Volumes Using Triple Integrals	4-5 Hours Daily