

ANNUAL PEDAGOGICAL PLAN (Class:XI & Subject:Applied Math

S.no.	What are the problems	Compilation of problems
1	Lack of motivation	<p>Some students simply don't care about their grades. They may not see the point in working hard, or they may be more interested in other things, such as sports, social activities, or their jobs. Some students have learning disabilities that make it difficult for them to learn in the traditional way. These disabilities can include dyslexia, dyscalculia, and attention deficit hyperactivity disorder (ADHD). Students who are dealing with problems at home, such as poverty, abuse, or neglect, may not be able to focus on their schoolwork. Some students don't know how to study effectively. They may not know how to break down large tasks into smaller ones, or they may not know how to manage their time effectively. Some students experience anxiety when they take tests. This anxiety can lead to poor performance on tests, even if the student knows the material.</p>
2	Poor study habits	
3	Irregularity in classes	
4	Lack of regular practice which is required for concept building	
5	Inadequate revision	
6	Hesitate to ask questions because of peer pressure	
7	Few students were having a habit of not taking notes properly in notebook.	
8	Few students do not follow the dead lines for their submissions.	
9	Test anxiety	

QUANTITATIVE APTITUDE		
1	Lack of basic concepts.	<p>Many students do not have a strong foundation in the basic concepts of mathematics, which can make it difficult to learn QA. Some students are simply afraid of numbers, and this can make it difficult for them to focus on QA. QA requires good problem-solving skills, and students who lack these skills may struggle to</p>
2	Fear of numbers	
3	Poor problem-solving skills	

4	Time management issues	solve QA problems. The best way to improve in QA is to practice solving problems. However, many students do not practice enough, which can hinder their progress. QA questions can be time-consuming, and students who have poor time management skills may not be able to finish all of the questions in the allotted time.
5	Lack of practice	
CALCULUS		
1	Lack of understanding of basic concepts	Calculus is a complex subject that builds on a foundation of basic concepts from algebra and trigonometry. If students don't have a strong and Calculus requires students to be able to manipulate mathematical symbols in a precise and efficient way. This can be difficult for students who are not comfortable with
2	Difficulty with symbolic manipulation.	
3	Difficulty with problem solving	
4	Lack of practice	
(a) FUNCTIONS		
1	Abstraction. Functions are abstract concepts, which can make them difficult to understand. They are not concrete objects that can be seen or touched, so they can be hard to visualize.	A function is a mathematical object that maps each element of a set to exactly one element of another set. This can be a difficult concept for students to grasp, especially if they have not had a strong foundation in set theory. There are many different types of functions, such as linear functions, quadratic functions, and exponential functions. Each type of function has its own unique properties, and students need to be able to recognize and distinguish between different types of functions. Function problems are often challenging for students because they require them to think abstractly and to use their knowledge of functions to solve real world problems. Graphing functions
2	Variety of types. There are many different types of functions, each with its own unique properties. This can make it difficult to keep track of all the different types and their properties.	
3	Complexity. Functions can be very complex, with many different variables and parameters. This can make them difficult to understand and work with.	

4	<p>Applications. Functions are used in many different areas of mathematics, science, and engineering. This can make it difficult to learn about functions in isolation, without understanding how they are used in other contexts.</p>	<p>solve real-world problems. Graphing functions is a visual way to represent the relationship between two variables. This can be a helpful tool for students to understand functions, but it can also be challenging for students who are not comfortable with graphing.</p>
(b) Continuity		
1	<p>Understanding the concept of a derivative. A derivative is a measure of how much a function changes at a given point. This can be a difficult concept for students to grasp, especially if they have not had a strong foundation in calculus.</p>	
2	<p>Applying the rules of differentiation. There are a number of rules that students need to know in order to differentiate functions. These rules can be complex and difficult to remember.</p>	<p>Differentiability is a complex topic in mathematics that can be challenging for students to understand. Below are some of the most common problems that students face when studying differentiability. A derivative is a measure of how much a function changes at a given point. This can be a difficult concept for students to grasp, especially if they have not had a strong foundation in calculus.</p>
3	<p>Solving differentiation problems. Differentiation problems can be challenging for students because they require them to think abstractly and to use their knowledge of differentiation to solve real-world problems.</p>	<p>There are a number of rules that students need to know in order to differentiate functions. These rules can be complex and difficult to remember. Problem-solving is an essential skill in mathematics, and it is especially important when studying differentiability. Students need to be able to</p>

4	<p>Graphing the derivative of a function. The graph of the derivative of a function can provide valuable information about the function. This can be a helpful tool for students to understand differentiation, but it can also be challenging for students who are not comfortable with graphing.</p>	<p>differentiability. Students need to be able to apply the rules of differentiation to solve real-world problems.</p>
LOGARITHMS		
1	<p>Not having a strong foundation in exponential functions. Logarithms are the inverse of exponential functions, so it is important to have a good understanding of exponential functions before you can start studying logarithms.</p>	<p>Logarithms are the inverse of exponential functions, and this can be a difficult concept for some students to grasp. There are a number of important properties of logarithms that students need to memorize in order to solve problems. Many logarithm problems are presented in word form, and students need to be able to translate these problems into mathematical form in order to solve them. Solving logarithm equations and inequalities can be a challenging task, and students need to have a strong understanding of the properties of logarithms in order to do this effectively.</p>
2	<p>Finding the concept of logarithms difficult to grasp. The concept of logarithms can be difficult to understand for some students, as it is a reversal of the exponential concept. This can make it difficult to visualize how logarithms work and how they can be used to solve problems.</p>	
3	<p>Having difficulty with the notation used for logarithms. The notation used for logarithms can be confusing for some students, as it is different from the notation used for other mathematical concepts. This can make it difficult to read and understand logarithm problems.</p>	

Not having enough practice solving logarithm problems. The best way to learn logarithms is by practicing solving problems. However, many students do not get enough practice solving logarithm problems, which can make it difficult for them to master the material.

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**Categorisation of Problems
(Subjective & Behavioural)**

Behavioural Issues



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Subjective

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