

## ANNUAL PEDAGOGICAL PLAN : (GRADE X - MATHEMATICS)

Sr. No.	What are the problems	Compilation of problems	Categorisation of Problems (Subjective & Behavioural)
1. Real Numbers	<p>Problems :</p> <ul style="list-style-type: none"> <li>• Students face problem in identifying which concept is to be applied (HCF/LCM) in solving word problems.</li> <li>• They find it difficult to prime factorise big numbers.</li> </ul>	<p>Students face problems in applying the concept and analysing. They face problem in calculation part.</p>	<p><b>Subjective :</b> Students find it difficult to understand the language of the question and apply the proper concept to solve it.</p> <p><b>Behavioural :</b> Lack of visualising and understanding</p>
2 Polynomials	<ul style="list-style-type: none"> <li>• Students face difficulty in polynomials containing irrational coefficients.</li> <li>• They face difficulty in evaluating values of different combinations of zeroes of quadratic polynomials.</li> </ul>	<p>Students face problems in Computation part and applying suitable algebraic identity.</p>	<p><b>Subjective :</b> Lack of computation skill</p> <p><b>Behavioural :</b> Lack of understanding.</p>
3. Pair of Linear Equations in Two Variables	<p>Problems :</p> <ul style="list-style-type: none"> <li>• Students face problem in elimination method while subtracting the II equation from the I equation not</li> </ul>	<p>These minor mistakes lead to wrong answers or deduction in marks.</p>	<p><b>Subjective :</b> Conceptual and Representational Mistakes</p> <p><b>Behavioural :</b> Lack of concentration.</p>

	<p>changing the signs.</p> <ul style="list-style-type: none"> <li>• Error in plotting points, marking axes, sometimes not mentioning the point of intersection as the solution</li> <li>• Not writing final answers with proper units.</li> </ul>		
4. Quadratic Equations	<p>Problem :</p> <ul style="list-style-type: none"> <li>• Some students find difficulty in factorization of quadratic equation.</li> <li>• Some students struggle to frame equations according to given information.</li> </ul>	<p>Not studied the concept of factorisation properly in previous classes. Understanding the language of the question</p>	<p><b>Subjective :</b> Not able to frame quadratic equations. <b>Behavioural :</b> Not giving proper attention in classroom teaching-learning process..</p>
5. Arithmetic Progressions	<p>Problem :</p> <ul style="list-style-type: none"> <li>• Students find difficulty in finding <math>n^{\text{th}}</math> term from the last.</li> <li>• They face problem in solving word problems.</li> </ul>	<p>Logical understanding and Applying the concept in real life</p>	<p><b>Subjective :</b> Not able to solve word problems. <b>Behavioural :</b> Lack of understanding and logical thinking.</p>
6. Triangles	<p>Problem :</p> <ul style="list-style-type: none"> <li>• Students face problem in identifying corresponding</li> </ul>	<p>Lack of observation and understanding</p>	<p><b>Subjective :</b> Not able to identify corresponding parts and use proper criterion of similarity. <b>Behavioural :</b></p>

	<p>parts in two triangles</p> <ul style="list-style-type: none"> <li>• They face problem in applying proper criterion of similarity..</li> </ul>		Lack of observation while attending class.
7. Coordinate Geometry	<p>Problems :</p> <ul style="list-style-type: none"> <li>• Students face problem in substituting values of coordinates in distance formula or section formula properly.</li> <li>• They commit mistakes in calculation part.</li> </ul>	Observation and Calculation	<p><b>Subjective :</b> Wrong substitution of values or wrong calculations lead to wrong answers</p> <p><b>Behavioural :</b> Lack of concentration.</p>
8. Introduction to Trigonometry	<p>Problems :</p> <ul style="list-style-type: none"> <li>• Students face problem in distinguishing definitions of different trigonometric ratios.</li> <li>• They find difficulty in solving questions based on trigonometric identities.</li> </ul>	Observation and logical reasoning	<p><b>Subjective :</b> Most of the students can not solve questions from this topic.</p> <p><b>Behavioural :</b> Pre-mind-set about new things or concepts.</p>