

WEST BENGAL COUNCIL OF HIGHER SECONDARY EDUCATION

SYLLABUS FOR CLASS XI AND XII

SUBJECT : MATHEMATICS (MATH)

Course Objectives

The Mathematics curriculum has undergone periodic revisions in response to the field's expansion and the changing demands of society. The senior secondary stage serves as a springboard for students to pursue professional programs in engineering, physical and biological science, commerce, or computer applications, or to pursue higher education in mathematics. In order to address the evolving demands of all student categories, the current revised syllabus has been created. More focus has been placed on the application of certain principles, drawing inspiration for the issues from real-world scenarios and other academic disciplines.

The following are the main goals of teaching mathematics to senior school students:

- To develop general interest in Mathematics as a discipline.
- To gain critical insight and knowledge of fundamental terminology, concepts, principles, symbols, and skills, especially through motivation and visualization, as well as mastery of underlying procedures and abilities.
- To experience the logic flowing while demonstrating an outcome or resolving an issue.
- To use the gained information and abilities to solve issues, using many approaches where feasible.
- To familiarize students with the various applications of mathematics in everyday life.
- Developing a sense of appreciation and respect for notable mathematicians and their contributions to mathematics is important.
- To cultivate an optimistic outlook in order to reason, evaluate, and speak coherently.
- To cultivate curiosity for the topic by taking part in competitions related to it.

Course Outcomes

At the end of the course the students are expected to develop expertise in various areas of the subject and gain critical insights into the background dynamics of the problem solving process.

The following are the major course outcomes. A student is expected to:

- Develop problem solving skills and apply mathematical concepts to real life situations.
- Cultivate critical thinking and analytical skills in mathematical context.
- Collaborate with peers to solve complex mathematical problems.
- Make predictions and draw conclusions based on statistical data.
- Get a preliminary idea of using technology, like calculators in problem solving.
- Effectively communicate mathematical ideas and solutions both verbally and in writing.
- Present mathematical arguments and justifications.
- Prepare for standardized examinations based on the curriculum.
- Understand the relevance of mathematics in real-world applications.

Wbchse Syllabus Of Mathematics

**Joseph Yeo, Keng Seng Teh, Cheng Yee
Loh, Ivy Chow**



Wbchse Syllabus Of Mathematics:

Quality in School Education Manju Narula, 2006 Over the years the Boards of Secondary Education have undergone a process of functional change from being examination Boards to Secondary Education Boards and finally to Boards of School Education This has resulted in many modifications in the working of the Boards Even then the Boards are facing many challenges The main challenge before the Boards are that there is a constant threat of knowledge getting obsolete day by day on the other the requirement for updating the existing facilities remains a financial challenge The Boards need to widen the sphere of their operations and increasingly support schools in undertaking innovative activities and in offering high quality education They need to adopt several measures for instance concerning academic guidance and supervision preparation of quality teaching learning material adoption of progressive modes of evaluating students performance training of teachers principals and other personnel and evaluation of the performance of schools affiliated to them In addition revolutionary advancements in communications technology have broken the national boundaries As a consequence globalization has created several avenues and possibilities for educational sector Therefore there is exigency to see how Boards of Secondary Education are prepared for facing these challenges The Boards must think constantly about the ways and means to absorb the changes The present book deals with role of Boards in managing change and quality of Secondary Education in four states of India i e Himachal Pradesh Madhya Pradesh West Bengal and Andhra Pradesh

Mathematics in Practice Syllabus, 1989 **Syllabus of Mathematics** Society for the Promotion of Engineering Education (U.S.). Committee on the Teaching of Mathematics to Students of Engineering, 1914 **New Syllabus Additional Mathematics Textbook** Dr Joseph Yeo, Teh Keng Seng, Loh Cheng Yee, Ivy Chow, 2013-01-01 New Syllabus Additional Mathematics NSAM is an MOE approved textbook specially designed to provide valuable learning experiences to engage the hearts and minds of students sitting for the GCE O level examination in Additional Mathematics Included in the textbook are Investigation Class Discussion Thinking Time and Alternative Assessment such as Journal Writing to support the teaching and learning of Mathematics Every chapter begins with a chapter opener which motivates students in learning the topic Interesting stories about mathematicians real life examples and applications are used to arouse students interest and curiosity so that they can appreciate the beauty of Mathematics in their surroundings and in the sciences The use of ICT helps students to visualise and manipulate mathematical objects more easily thus making the learning of Mathematics more interactive Ready to use interactive ICT templates are available at <http://www.shinglee.com.sg/StudentResources> The chapters in the textbook have been organised into three strands Algebra Geometry and Trigonometry and Calculus The colours purple green and red at the bottom of each page indicate these

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