NAVY CHILDREN SCHOOL (KOCHI)
SPLITUP SYLLABUS
SESSION 2024-25
CLASS XI
SUBJECT: MATHEMATICS (041)

S.NO.	MONTH	NAME OF CHAPTERS	NO. OF PERIODS REQUIRED	LAB ACTIVITIES
1	JUNE	1. Sets	20	1. To represent set theoretic operations using Venn diagrams.
		2. Relation & Function	20	2. To distinguish between a relation and function.
2	JULY	3.Trigonometric Functions.	20	3.To find the values of sine and cosine functions in second, third and fourth quadrants using their given values in first quadrant.
		4.Complex numbers	10	4. To interpret geometrically the meaning of $i = \sqrt{-1}$ and its integral powers.
3	AUGUST	5. Linear Inequalities	10	
		5. Permutations & Combinations.	10	5. To find the number of ways in which three cards can be selected from given five cards.
		6. Binomial Theorem	10	
4	SEPTEMBER	7. Sequence & Series Revision	10	
Mid-term Examination				
5	OCTOBER	7. Sequence & Series Contd. 8. Straight Line	15	6. To demonstrate that the Arithmetic mean of two different positive numbers is always greater than the Geometric mean.

6	NOVEMBER	9. Conic Section 10. Introduction to Three-Dimensional Geometry. 11. Limits and Derivatives	25 10 40	7. To construct as ellipse when two fixed points are given. 8. To explain the concepts of octants by three mutually perpendicular planes in space.
7	DECEMBER	11. Limits and Derivatives Contd.		9. Verification of the geometrical significance of derivative.
8	JANUARY	12. Statistics 13. Probability	20 20	10. To write the sample space, when a coin is tossed once, two times, three times, four times.
9	FEBRUARY	Revision		

Note: Teachers have to arrange Periods as per the availability of time.