

**NAVY EDUCATION SOCIETY**  
**CONDUCT OF COMMON ANNUAL EXAMINATION FOR AY 2024 – 25**  
**FOR NAVY CHILDREN SCHOOLS**

MONTH	CHAPTER NO	CHAPTER NAME	NO.OF TEACHING PERIODS	UNIT (MARK)	LAB ACTIVITIES
March - May	1	Relations and Functions	15	UNIT I (8)	1. To verify that the relation R in the set L of all lines in a plane, defined by $R = \{(l, m) : l \perp m\}$ is symmetric but neither reflexive nor transitive. 2. To demonstrate a function which is not one -one but is onto.
	2	Inverse Trigonometric Functions	15		
	3	Matrices	25	UNIT II (10)	
June	4	Determinants	25	UNIT III (35)	3. To explore the principal value of the function $\sin^{-1}x$ using a unit circle. 4. To find analytically the limit of a function $f(x)$ at $x = c$ and also to check the continuity of the function at that point.
	5	Continuity & Differentiability	20		
July	6	Application of Derivatives	10	UNIT III (35)	5. To verify that amongst all the rectangles of the same perimeter, the square has the maximum area.
	7	Integrals	20		
August	8	Application of Integrals	15	UNIT III (35)	6. To verify geometrically that $\vec{c} \times (\vec{a} + \vec{b}) = \vec{c} \times \vec{a} + \vec{c} \times \vec{b}$
	9	Differential Equations	15		
	10	Vector Algebra	15		
September	11	3 D Geometry	15	UNIT IV (14)	7. To locate the points to given coordinates in space, measure the distance between two points in space and then to verify the distance using distance formula. 8. To understand the concepts of local maxima, local minima and point of inflection. 9. To measure the shortest distance between two skew lines and verify it analytically.

October	12	Linear Programming	20	UNIT V (05)	
November	13	Probability	30	UNIT VI (08)	10. To explain the computation of conditional probability of a given event A, when event B has already occurred, through an example of throwing a pair of dice.
December		Revision			
January		Revision			
February		Revision			