

TELANGANA BOARD OF INTERMEDIATE EDUCATION: HYDERABAD

ANNUAL ACADEMIC PLAN 2025-2026

MATHEMATICS-I (A)

I YEAR

Month/No. of Working days & Periods	Topics to be covered Unit tests/ Exams/EAPCET classes to be conducted	Periods allotted for each topic
June 23	Syllabus and pre-requisites	01
	01. Functions: -	
	1.1 Types of functions – Definitions	05
	1.2 Inverse functions and Theorems	05
	1.3 Domain, Range, Inverse of real valued Functions	03
	02. Mathematical Induction	
	2.1 Principle of Mathematical Induction & Theorems	03
July 25	2.2 Applications of Mathematical Induction	02
	EAPCET weekly one Class	03
	Test on EAPCET	01
	2.3 Problems on divisibility	02
	03. Matrices:	
	3.1 Types of matrices	02
	3.2 Scalar multiple of a matrix and multiplication of Matrices	03
August 22	3.3 Transpose of a matrix	02
	3.4 Determinants	03
	3.5 Adjoint and Inverse of a matrix	03
	3.6 Consistency and inconsistency of Equations- Rank of a matrix	03
	3.7 Solution of simultaneous linear equations	02
	UNIT TEST-I	01
	EAPCET weekly one Class	03
Test on EAPCET	01	
August 22	3.7 Solution of simultaneous linear equations	02
	TRIGONOMETRY	
	6. Trigonometric Ratios up to Transformations:	
	6.1 Graphs and Periodicity of Trigonometric functions	03
	6.2 Trigonometric ratios and Compound angles	04
6.3 Trigonometric ratios of multiple and sub-multiple angles	04	
6.4 Transformations - Sum and Product rules	04	

	UNIT TEST-II	01
	EAPCET weekly one Class	03
	Test on EAPCET	01
September 22	7. Trigonometric Equations:	
	7.1 General Solution of Trigonometric Equations	02
	7.2 Simple Trigonometric Equations – Solutions	02
	8. Inverse Trigonometric Functions:	
	8.1 To reduce a Trigonometric Function into a Bijection	02
	8.2 Graphs of Inverse Trigonometric Functions	01
	8.3 Properties of Inverse Trigonometric Functions	02
	9. Hyperbolic Functions:	
	9.1 Definition of Hyperbolic Function Graphs	02
	9.2 Definition of Inverse Hyperbolic Functions – Graphs	01
	9.3 Addition formulas of Hyperbolic Functions	01
	10. Properties of Triangles:	
	10.1 Relation between sides and angles of a Triangle	04
	UNIT TEST-III	01
	EAPCET weekly one Class	03
	Test on EAPCET	01
FIRST TERM HOLIDAYS FROM 28-09-2025 TO 05-10-2025		
October 21	10.2 Sine, Cosine, Tangent and Projection rules	03
	10.3 Half angle formulae and areas of a triangle	03
	10.4 In-circle and Ex-circle of a Triangle	02
	04 Addition of Vectors	
	4.1 Vectors as a triad of real numbers	02
	4.2 Classification of vectors	02
	4.3 Addition of vectors	02
	4.4 Scalar multiplication	02
	4.5 Angle between two non- zero vectors	02
	EAPCET weekly one Class	02
	Test on EAPCET	01
November 23 (17P)	4.6 Linear combination of vectors	02
	4.7 Component of a vector in three dimensions	02
	4.8 Vector equations of line and plane including their Cartesian equivalent forms	02

	05 Product of Vectors: -	
	5.1 Scalar Product - Geometrical Interpretations orthogonal projections	02
	5.2 Properties of dot product	02
	5.3 Expression of dot product in i, j, k system - Angle between two vectors	03
	5.4 Geometrical Vector methods	02
	EAPCET weekly one Class	01
	Grand Test on EAPCET	01
HALF YEARLY EXAMINATIONS FROM 10-11-2025 TO 15-11-2025		
December 24	5.5 Vector equations of plane in normal form	03
	5.6 Angle between two planes	01
	5.7 Vector product of two vectors and properties	02
	5.8 Vector product in i, j, k system	02
	5.9 Vector Areas	03
	5.10 Scalar Triple Product	04
	5.11 Vector equations of plane in different forms	04
	UNIT TEST-IV	01
	EAPCET weekly one Class	03
	Test on EAPCET	01
January 19 (13P)	5.12 Vector Triple Product – Results	05
	EAPCET weekly one Class	02
	Grand Test on EAPCET	01
	REVISION	05
SECOND TERM HOLIDAYS FROM 11-01-2026 TO 18-01-2026		
PRE-FINAL EXAMINATIONS FROM 19-01-2026 TO 24-01-2026		
February 24	REVISION	24
	DATE OF COMMENCE MENT OF PRACTICAL EXAMS 1ST WEEK OF FEB-2026	
March 23	DATE OF COMMENCE MENT OF THEORY EXAMS 1ST WEEK OF MARCH-2026	23
	LAST WORKING DAY :31-03-2026	

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