

**NATIONAL COLLEGE (AUTONOMOUS), TIRUCHIRAPPALLI-1**  
**B.Sc., MATHEMATICS - COURSE STRUCTURE UNDER CBCS PATTERN**  
(For the candidates admitted from the Academic year 2025 onwards)

S. No.	COURSE CODE	PART	COURSE TITLE	COURSE KIND	COURSE TYPE	INSTRUCTION HOURS /WEEK	CREDIT	EXAM HOURS	MARKS		TOTAL
									Internal	External	
<b>SEMESTER - I</b>											
1.	U25T1/H1/S1	I	Tamil-1/Hindi-1/Sanskrit-1	Language	Theory	6	3	3	25	75	100
2.	U25E1	II	General English I	English	Theory	6	3	3	25	75	100
3.	U25MS1	III	Differential Calculus and Trigonometry	Core 1	Theory	5	5	3	25	75	100
4.	U25MS2P	III	Integral Calculus and Fourier Series	Core 2	Theory	3	-	-	-	-	-
5.	U25APH1	III	Allied Physics-1	Allied	Theory	5	3	3	25	75	100
6.	U25APH2P	III	Allied Physics-2	Allied	Practical	3	-	-	-	-	-
7.	U25ES	IV	Environmental Studies		Theory	2	2	3	25	75	100
<b>SEMESTER - II</b>											
8.	U25T2/H2/S2	I	Tamil-2/Hindi-2/Sanskrit-2	Language	Theory	6	3	3	25	75	100
9.	U25E2	II	General English II	English	Theory	6	3	3	25	75	100
10.	U25MS2P	III	Integral Calculus and Fourier Series	Core 2	Theory	3	5	3	25	75	100
11.	U25MS3	III	Analytical Geometry (3D) & Vector Calculus	Core 3	Theory	5	5	3	25	75	100
12.	U25APH2P	III	Allied Physics-2	Allied	Practical	3	3	3	25	75	100
13.	U25APH3	III	Allied Physics-3	Allied	Theory	5	3	3	25	75	100
14.	U25SBEMS1	IV	Quantitative Aptitude -I	SBE	Theory	2	2	3	25	75	100
<b>SEMESTER - III</b>											
15.	U25T3/H3/S3	I	Tamil-3/Hindi-3/Sanskrit-3	Language	Theory	6	3	3	25	75	100
16.	U25E3	II	General English III	English	Theory	6	3	3	25	75	100
17.	U25MS4	III	Differential Equations	Core 4	Theory	4	4	3	25	75	100
18.	U25MS5P	III	Classical Algebra	Core 5	Theory	3	-	-	-	-	-

19.	U25AST4	III	Mathematical Statistics- I	Allied	Theory	5	3	3	25	75	100
20.	U25AST5P	III	Mathematical Statistics -II with R Programming	Allied	Practical	2	-	-	-	-	-
21.	U25SBEMS2	IV	Quantitative Aptitude -II	SBE	Theory	2	2	3	25	75	100
22.	U25SBEMS3	IV	Verbal & non-Verbal Reasoning	SBE	Theory	2	2	3	25	75	100
<b>SEMESTER - IV</b>											
23.	U25T4/H4/S4	I	Tamil-4/Hindi-4/Sanskrit-4	Language	Theory	6	3	3	25	75	100
24.	U25E4	II	General English IV	English	Theory	6	3	3	25	75	100
25.	U25MS5P	III	Classical Algebra	Core 5	Theory	2	5	3	25	75	100
26.	U25MS6	III	Sequence and Series	Core 6	Theory	4	4	3	25	75	100
27.	U25AST5P	III	Mathematical Statistics -II with R Programming	Allied	Practical	3	3	3	25	75	100
28.	U25AST6	III	Mathematical Statistics -III	Allied	Theory	5	3	3	25	75	100
29.	U25NMEMS1	IV	Quantitative Aptitude -I	NME	Theory	2	2	3	25	75	100
30.	U25VE	IV	Value Education		Theory	2	2	3	25	75	100
<b>SEMESTER - V</b>											
31.	U25MS7	III	Abstract Algebra	Core 7	Theory	5	5	3	25	75	100
32.	U25MS8	III	Real Analysis	Core 8	Theory	5	5	3	25	75	100
33.	U25MS9	III	Statics	Core 9	Theory	6	5	3	25	75	100
34.	U25MS10	III	Operations Research	Core 10	Theory	5	5	3	25	75	100
35.	U25MS11E1/E2	III	Discrete Mathematics / Astronomy	Core Elective 11	Theory	5	4	3	25	75	100
36.	U25NMEMS2	IV	Quantitative Aptitude -II	NME	Theory	2	2	3	25	75	100
37.	U25SS	IV	Soft-Skills		Theory	2	2	3	25	75	100
<b>SEMESTER - VI</b>											
38.	U25MS12	III	Theory of Transforms	Core 12	Theory	6	6	3	25	75	100
39.	U25MS13	III	Complex Analysis	Core 13	Theory	6	6	3	25	75	100
40.	U25MS14	III	Dynamics	Core 14	Theory	6	6	3	25	75	100
41.	U25MS15	III	Numerical Methods	Core 15	Theory	6	6	3	25	75	100
42.	U25MS16 E1/E2	III	Graph Theory / Stochastic Processes	Core Elective 16	Theory	5	4	3	25	75	100
43.	U25GS	V	Gender Studies		Theory	1	1	3	25	75	100
44.		V	Extension Activities			-	1	-	-	-	-
	<b>Total</b>					180	140				

## THE REVISED BLOOM'S TAXONOMY

- K1 : Remember
- K2 : Understand
- K3 : Apply
- K4 : Analyze
- K5 : Evaluate
- K6 : Create

## EVALUATION PATTERN

CIA	
Scholastic	20
Non-Scholastic	5
Total	25

SCHOLASTIC			NON-SCHOLASTIC	MARKS		
C1	C2	C3	C4	CIA	ESE	Total
4	10	6	5	25	75	100

CIA COMPONENTS	Nos.	MARKS
C1-Test I (CIA I)	1	4
C2-Test II (CIA II)	1	10
C3-ASSIGNMENT	2	6
C4-ATTENDANCE	1	5
		25