

**NATIONAL COLLEGE (AUTONOMOUS), Tiruchirappalli – 620 001**  
**Nationally Re-accredited with “A” Grade by NAAC**  
**Under Graduate Programme Structure under CBCS**  
**(For candidates admitted from the year 2025 Onwards)**  
**B.Sc. - COMPUTER SCIENCE**

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-I	Theory	6	3	3	25	75	100
2.	U25E1	II	English -1	Language-I	Theory	6	3	3	25	75	100
3.	U25CS1TP	III	Python Programming	Core 1	Theory & Practical	8	6	2 (T) 2 (P)	15+ 10= 25	45+ 30= 75	100
4.	U25AMS1C	III	Allied Mathematics – 1	Allied I	Theory	5	5	3	25	75	100
	U25AMS2C	III	Allied Mathematics –2 *	Allied II	Theory	3	-		-	-	-
5.	U25ES	IV	Environmental Studies		Theory	2	2	3	25	75	100
<b>SEMESTER – II</b>											
6.	U25T2/H2/S2	I	Tamil–2/Hindi-2/Sanskrit–2	Language-II	Theory	6	3	3	25	75	100
7.	U25E2	II	English - 2	Language-II	Theory	6	3	3	25	75	100
8.	U25CS2	III	Data Structure and Algorithms	Core 2	Theory	5	5	3	25	75	100
9.	U25CS3P	III	Data Structure and Algorithms Lab	Core 3	Practical	3	2	3	25	75	100
10.	U25AMS2C	III	Allied Mathematics – 2 *	Allied II	Theory	3	5	3	25	75	100
11.	U25AMS3C	III	Allied Mathematics –3	Allied III	Theory	5	5	3	25	75	100
12.	U25CSSBE1	IV	Web Development Programming Tool	SBE	Theory	2	2	3	25	75	100

SEMESTER - III											
13.	U25T3/H3/S3	I	Tamil-3/Hindi-3/Sanskrit-3	Language-III	Theory	6	3	3	25	75	100
14.	U25E3	II	English - 3	Language-III	Theory	6	3	3	25	75	100
15.	U25CS4	III	Database Systems	Core 4	Theory	5	4	3	25	75	100
16.	U25CS5P	III	RDBMS Lab	Core 5	Practical	2	2	3	25	75	100
17.	U25APH1C	III	Applied Physics for Computer Science-I	Allied IV	Theory	5	4	3	25	75	100
	U25APH3CP	III	Applied Physics for Computer Science Practicals	Allied V	Practical	2	-	-	-	-	-
18.	U25CSSBE2	IV	Java Script	SBE	Theory	2	2	3	25	75	100
19.	U25CSSBE3P	IV	HTML and Java Script Lab	SBE	Practical	2	2	3	25	75	100
SEMESTER - IV											
20.	U25T4/H4/S4	I	Tamil-4/Hindi-4/Sanskrit-4	Language-IV	Theory	6	3	3	25	75	100
21.	U25E4	II	English - 4	Language-IV	Theory	6	3	3	25	75	100
22.	U25CS6	III	Open Source Technology	Core 6	Theory	4	4	3	25	75	100
23.	U25CS7P	III	Open Source Lab	Core 7	Practical	2	2	3	25	75	100
24.	U25APH2C	III	Applied Physics for Computer Science -II	Allied VI	Theory	5	4	3	25	75	100
25.	U25APH3CP	III	Applied Physics for Computer Science Practicals	Allied V	Practical	3	5	3	25	75	100
26.	U25CSNME1	IV	Fundamentals of Computer Technology	NME 1	Theory	2	2	3	25	75	100
27.	U25VE	IV	Value Education		Theory	2	2	3	25	75	100
			<i>Extra Credit Course I : MOOC COURSE</i>			-	4*		25	75	100*
			Extra Credit Course II: Multimedia Technology.			-	4*		25	75	100*

SEMESTER - V											
28.	U25CS8	III	Programming in Java	Core 8	Theory	5	5	3	25	75	100
29.	U25CS9P	III	Programming in Java Lab	Core 9	Practical	5	5	3	25	75	100
30.	U25CS10	III	Computer Networks	Core 10	Theory	5	5	3	25	75	100
31.	U25CS11E1 U25CS11E2 U25CS11E3	III	<b>Elective – I:</b> A. Introduction to Artificial Intelligence B. Introduction to Data Science C. Network Essentials & Management	Elective 1	Theory	6	5	3	25	75	100
32.	U25CS12E1 U25CS12E2 U25CS12E3	III	<b>Elective – II:</b> A. Computer Graphics B. Principles of Animation C. Visual Effects	Elective 2	Theory	5	5	3	25	75	100
33.	U25CSNME2	IV	Introduction To ICT	NME 2	Theory	2	2	3	25	75	100
34.	U25SS	IV	Soft Skill	SS	Theory	2	2	3	25	75	100
			<i>Extra Credit Course III: BPO (Business Process Outsourcing).</i>			-	4*		25	75	100*
SEMESTER - VI											
35.	U25CS13TP	III	Cloud Computing & Corporate Computing Lab	Core 11	Theory & Practical	11	6	2 (T) 2 (P)	15+ 10= 25	45+ 30= 75	100
36.	U25CSP14	III	Project Work	Core 12	Project	6	4	Viva	75	25	100
37.	U25CS15	III	Operating Systems	Core 13	Theory	6	5	3	25	75	100
38.	U25CS16E1 U25CS16E2 U25CS16E3	III	<b>Elective – III:</b> A. Software Engineering B. System Analysis and Design C. Software Testing	Elective 3	Theory	6	5	3	25	75	100
39.	U25GS	V	Gender Studies	GS	Theory	1	1	3	25	75	100
40.		V	<i>Extension Activity</i>			-	1		25	75	100*
			<i>Extra Credit Course IV: Cloud Computing.</i>			-	4*		25	75	100*
			<b>GRAND TOTAL</b>			<b>180</b>	<b>140</b>		-	-	<b>3900</b>

## 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

Signature of the HOD

Signature of Science Dean