



## Scheme of Examination

### B. Sc. COMPUTER SCIENCE

#### Programme Code: UCS

(Applicable to the students admitted during the year 2025-2026 onwards)

Semester	Part	Sub. Code	Name of the Subject	Instruction hours	Duration of Examination	Examination Marks			Credits
						CIA	ESE	Total	
I	I	25U1TAM101/ 24U1HIN101/ 24U1MAL101/ 24U1FRN101	Elanthamizh Rachnathmak Hindi Kadha, Samskaaram, Vivarthanam Français general - I	3	3	20	55	75	3
	II	24U2ENG101	Professional English - I	3	3	20	55	75	3
	III	25U3CJC101	Core Paper I: Problem Solving using C and C++	5	3	25	75	100	4
		23U3CKC102	Core Paper II: Digital Fundamentals and Computer Architecture	5	3	25	75	100	4
		25U3CSP101	Core Paper III: Practical in C and C++ programming	6	3	30	45	75	3
		25U3MIA101	Allied Paper I: Mathematics for Computer Science	5	3	20	55	75	3
	IV	21U4ENV101	*@ Ability Enhancement Compulsory Course Environmental Studies	2	3	50	-	50	2
		25U4HVY201	@ Value Education: Human Values and Yoga Practice	1	-	-	-	-	-
				<b>30</b>				<b>550</b>	<b>22</b>
II	I	23U1TAM202/ 24U1HIN202/ 23U1MAL202/ 24U1FRN202	Pynthamizh Sanchar Hindi Novalum Bhashaapadanavum Français general - II	3	3	20	55	75	3
	II	24U2ENG202	Professional English - II	3	3	20	55	75	3
	III	23U3CKC203	Core Paper IV: Java Programming	5	3	25	75	100	4
		23U3CKC204	Core Paper V: Data Structures	5	3	25	75	100	4
		25U3CSP202	Core Paper VI: Practical in Java Programming and Bio-Computing	6	3	30	45	75	3
		25U3MIA202	Allied Paper II: Discrete Mathematics	5	3	20	55	75	3
	IV	25U4HRC202	@ Ability Enhancement Compulsory Course Human Rights and Constitution of India	1	2	25	-	25	1
		25U4HVY201	@ Value Education: Human Values and Yoga Practice	1	2	50	-	50	2
		24U4SEC201	Skill Enhancement Course I – Career Foundation Skills	2	2	25	-	25	1
		25U4IKS202	@ Value Education: Fundamentals of Indian Knowledge System	1	2	25	-	25	1
				<b>30+2</b>				<b>625</b>	<b>25</b>

III	III	25U3CKC305	Core Paper VII: Operating Systems	4	3	25	75	100	4
		25U3CJC303	Core Paper VIII: Python Programming	4	3	25	75	100	4
		25U3CSP303	Core Paper IX: Practical in Case Tools	4	3	40	60	100	4
		25U3CSP304	Core Paper X: Practical in Python Programming	5	3	40	60	100	4
		25U3CST301	Institutional Training	-	-	-	-	25	1
		25U3MIA303	Allied Paper III: Operations Research	4	3	20	55	75	3
	IV	25U4CSZ301	Skill Enhancement Course II - Practical in Agile Software Development	4	3	20	30	50	2
		22U4NM3BT1/ 22U4NM3AT1/ 22U4NM3CAF/ 22U4NM3GST/ 22U4NM3WRT	# @Basic Tamil - I / ##Advanced Tamil- I / * NME: Consumer Affairs / Gender Sensitization/ Women's Rights	2	2	50		50	2
		SBOEC	Skill Enhancement Course III - Extra Departmental Elective Course	2	3	-	50	50	2
		24U4SEC302	Skill Enhancement Course IV – Employability Enhancement Training	-	-	25	-	25	1
			25U4HWE403	@Value Education: Health and Wellness	1	-	-	-	-
				<b>30</b>				675	27
IV	III	25U3CKC407	Core Paper XI: RDBMS and MySQL	4	3	25	75	100	4
		25U3CKC408	Core Paper XII: R Programming	4	3	25	75	100	4
		25U3CSP405	Core Paper XIII: Practical in RDBMS and MySQL	5	3	40	60	100	4
		25U3CSP406	Core Paper XIV: Practical in R Programming	4	3	40	60	100	4
		23U3BTA404	Allied Paper IV: Fundamentals of Bioinformatics	4	3	20	55	75	3
	IV	25U4CSZ402	Skill Enhancement Course V Practical in Android Programming	3	3	20	30	50	2
		22U4NM4BT2/ 22U4NM4AT2/ 22U4NM4GEN	# @Basic Tamil- II / ##Advanced Tamil- II / General Awareness	2	2	50		50	2
		VBOEC	Value Based Open Elective Courses – Intra School Course	2	3	-	50	50	2
	IV	25U4HWE403	@Value Education: Health and Wellness	1	2	25	-	25	1
		25U4EDI404	@Value Education: Entrepreneurship Development and Innovation	1	2	25	-	25	1
		22U4CSVALC	Skill Enhancement Course VI Value Added Course – Institute Industry Linkage	-	-	-	-	50	2
					<b>30</b>				725

V	III	25U3CSC507	Core Paper XV: Data Communication and Networks	4	3	25	75	100	4
		25U3CJC506	Core Paper XVI: Artificial Intelligence	4	3	25	75	100	4
		25U3CSP508	Core Paper XVII: Practical in Networking	5	3	40	60	100	4
		25U3CSP509	Core Paper XVIII: Practical in IoT	5	3	30	45	75	3
		25U3CKE501/ 25U3CKE502/ 25U3CKE503/ 25U3CKE504	Discipline Specific Elective - I	4	3	25	75	100	4
		25U3CSE501/ 25U3CSE502/ 25U3CSE503/ 25U3CSE504	Discipline Specific Elective - II Practical	5	3	25	75	100	4
	25U3CST502	Summer Internship	-	3	50	-	50	2	
	IV	25U3CSP513	Skill Enhancement Course VII Practical in HTML, CSS, Java Script	3	3	20	30	50	2
		24U4SEC503	Skill Enhancement Course VIII – Campus to Corporate	-	2	25	-	25	1
			<b>30</b>				<b>700</b>	<b>28</b>	
VI	III	25U3CSC610	Core Paper XIX: Full Stack Development	4	3	25	75	100	4
		25U4CSP611	Core Paper XX: Practical in Data Visualization using Power BI	6	3	30	45	75	3
		25U3CSV612	Project and Viva-Voce	10	-	40	60	100	4
		25U3CSE609/ 25U3CSE610/ 25U3CSE611/ 25U3CJE612	Discipline Specific Elective - III	6	3	25	75	100	4
	IV	25U4CSZ604	Skill Enhancement Course IX: Practical in Full Stack Development and Bio Perl	4	3	20	30	50	2
	V	25U5EXT601	Extension Activities - Community Engagement	-	-	50	-	50	2
			<b>30</b>				<b>475</b>	<b>19</b>	
Total							<b>3750</b>	<b>150</b>	
Additional Credit (Optional)		Semester II - VI						<b>6\$</b>	

# **Basic Tamil** -Students who have not studied Tamil upto 12th standard.

##**Advanced Tamil** – Students who have studied Tamil language upto 12th standard and chosen other languages under part I of the programme but would like to advance their Tamil language skills.

\* **NME** – Student shall choose any one course out of three courses.

@ No End Semester Examinations. Only Continuous Internal Assessment (CIA)

\$ - Not included in total Marks and CGPA calculation

### Distribution of Credits and Marks

Semester	Marks	Credits
I	550	22
II	625	25
III	700	28
IV	725	29
V	675	27
VI	475	19
<b>Total</b>	<b>3750</b>	<b>150</b>

### List of Elective papers (Choose any one of the papers)

Elective Papers	Course Code	Group	Name of the Course
Discipline Specific Elective- I	25U3CKE501	A	Blockchain Technology
	25U3CKE502	B	Next Generation Networks
	25U3CKE503	C	Internet of Things
	25U3CKE504	D	Big Data Analytics
Discipline Specific Elective- II	25U3CSE501	A	Practical in Cloud Computing
	25U3CSE502	B	Practical in Computer Graphics
	25U3CSE503	C	Practical in Cyber Forensics
	25U3CSE504	D	Practical in Ethical Hacking
Discipline Specific Elective- III	25U3CSE609	A	Data Mining and Warehousing
	25U3CSE610	B	Machine Learning Techniques
	25U3CSE611	C	PC Hardware & Troubleshooting
	25U3CJE612	D	Digital Marketing

### Extra Departmental Course offered by the Department to other Department Students

S. No.	Subject Code	Name of the Subject
1	24U4CS3ED1	Practical in Multimedia Technologies
2	24U4CS3ED2	Practical in Web Designing

- Students need to opt a Course other than the Course offered by their department.

### Intra-School Courses offered by the Department to other Department Students (within the School)

S. No.	Subject Code	Name of the Subject
1.	22U4VBOE01	Design Ecosystem
2.	22U4VBOE02	Design Thinking
3.	25U4VBOE03	Disaster Risk Reduction and Management
4.	22U4VBOE04	Environmental Pollution and Waste Management
5.	22U4VBOE05	History of Ancient India

6.	25U4VBOE06	Introduction to Sustainable Development Goals
7.	22U4VBOE07	Principles of Intellectual Property Rights
8.	22U4VBOE08	Science, Society and Culture
9.	22U4VBOE09	Community Engagement
10.	22U4VBOE10	Emotional Intelligence
11.	22U4VBOE11	Fundamentals of Tourism
12.	22U4VBOE12	Health Education
13.	22U4VBOE13	Media and Politics
14.	22U4VBOE14	Positive Psychology and Work Life
15.	22U4VBOE15	Professional Ethics
16.	22U4VBOE16	The Science of Happiness
17.	NCC	

- Students shall opt any course within their Schools.
- NCC – Students who qualify NCC B Certificate Examination need not appear for these open Electives. The Credits shall be transferred.

### **Self-Study Paper offered by Computer Science and Data Science**

<b>S. No.</b>	<b>Semester</b>	<b>Course code</b>	<b>Course Title</b>
1	II to IV	22UCSSS01	Libre Office
2		22UCSSS02	Management Information System

**Chairman**  
**Board of Studies in Computer Science**  
**Nehru Arts and Science College**  
**Coimbatore**