



NEHRU ARTS AND SCIENCE COLLEGE

(Affiliated to Bharathiar University Reaccredited with “A+” Grade by NAAC,
ISO Certified, Recognized by UGC with 2(f) & 12(B), Under Star College
Scheme by DBT, Govt. of India)

Nehru Gardens, Thirumalayampalayam, Coimbatore - 641 105, Tamil Nadu.



LOCF - Scheme of Examination

Programme : B. Sc. Computer Science

Programme Code: UCS

(Applicable to the students admitted during the Academic year 2026-2027 onwards)

Semester	Part	Sub. Code	Name of the Subject	Instruction hours	Duration of Examination	Examination Marks			Credits
						CIA	ES E	Total	
I	I	26U1TAM10/ 26U1HIN101/ 26U1MAL101 26U1FRN101	AEC I: Elanthamizh / Rachnathmak Hindi/ Kadha, Samskaaram, Vivarthanam/ Français general - I	4	3	20	55	75	3
	II	26U2ENG101	AEC II: Professional English - I	4	3	20	55	75	3
	III	26U3CKC101	DSC I: Problem Solving using C	5	3	25	75	100	4
		26U3CKC102	DSC II: Digital Fundamentals and Computer Architecture	4	3	25	75	100	4
		26U3CSP101	DSC III: Practical in C Programming	5	3	40	60	100	4
	25U3MJA101	GEC I: Mathematics for Computer Science	5	3	20	55	75	3	
	IV	26U4ENV101	AEC III: Environmental Studies and SDG	1	3	50	-	50	2
		26U4BCS102	AEC IV: Introduction to Cyber Security	1	3	25	-	25	1
		26U4HVY201	VAC II:: Human Values and Yoga Practice	1	-	-	-	-	-
				30				600	24
II	I	26U1TAM202 / 26U1HIN202/ 26U1MAL202 / 26U1FRN202	AEC V: Pynthamizh / Sanchar Hindi Novalum Bhashaapadanavum/ Français general - II	4	3	20	55	75	3
	II	26U2ENG202	AEC VI: Professional English - II	4	3	20	55	75	3
	III	26U3CKC203	DSC IV: Java Programming	5	3	25	75	100	4
		26U3CKC204	DSC V: Data Structures	5	3	25	75	100	4
		26U3CSP202	DSC VI: Practical in Data Structures using Java	5	3	40	60	100	4
	25U3MIA202	GEC II: Discrete Mathematics	4	3	20	55	75	3	
	IV	26U4HRC202	VAC I: Human Rights and Constitution of India	1	2	25	-	25	1
		26U4HVY201	VAC II: Human Values and Yoga Practice	1	2	50	-	50	2
		26U4SEC201	AEC VII: – Career Foundation Skills	-	2	25	-	25	1

		26U4IKS202	VAC III : : Fundamentals of Indian Knowledge System	1	2	25	-	25	1
				30				650	26

III	III	26U3CKC305	DSC VII: Relational Database Management System	5	3	25	75	100	4	
		26U3CKC306	DSC VIII: Python Programming	5	3	25	75	100	4	
		26U3CSP303	DSC IX: Practical in RDBMS and MySQL	4	3	40	60	100	4	
		26U3CSP304	DSC X: Practical in Python Programming	4	3	30	45	75	3	
		25U3MIA303	GEC III: Operations Research	4	3	20	55	75	3	
		26U3CSZ301	SEC I : Practical in AI - Driven Low Code No Code Platform	3	3	20	30	50	2	
	IV	26U4NM3BT1/ 26U4NM3AT1/ 26U4NM3CAF/ 26U4NM3GST/ 22U4NM3WRT		AEC VIII : Basic Tamil - I / Advanced Tamil- I / NME: Consumer Affairs / Gender Sensitization/ Women's Rights	2	2	50		50	2
		26U4CST301		SEC II: Institutional Training		2	-	-	25	1
		SBOEC		SEC III : Extra Departmental Elective Course	2	3	-	50	50	2
		26U4SEC302		AEC IX: Employability Enhancement Training	-	2	25	-	25	1
26U4HWE403		VAC V: Health and Wellness	1	-	-	-	-	-		
				30				650	26	
IV	III	26U3CKC407	DSC XI: Operating System	4	3	25	75	100	4	
		26U3CSC405	DSC XII: R Programming	5	3	30	45	75	3	
		26U3CKE401 26U3CKE402 26U3CKE403	DSE I: Blockchain Technology Digital Marketing Internet of Things	4	3	25	75	100	4	
		26U3CKE402	DSC XIII: Practical in R Programming	4	3	40	60	100	4	
		26U3CKE403	GEC IV: Fundamentals of Bioinformatics	4	3	20	55	75	3	
		26U3CSZ402	SEC IV: Practical in Operating Systems	3	3	20	30	50	2	
	IV	26U4NM4BT2/ 26U4NM4AT2/ 26U4NM4GEN		AEC X : # @Basic Tamil- II / ##Advanced Tamil- II / General Awareness	2	2	50		50	2
		VBOEC		VAC IV – Intra School Open Elective Course	2	3	-	50	50	2
		26U4HWE403		VAC V: Health and Wellness	1	2	25	-	25	1
		26U4EDI404		VAC VI: Entrepreneurship Development and Innovation	1	2	25	-	25	1
26U4CSVALC		SEC V: Value Added Course	-	-	-	-	50	2		
				30				700	28	

V	III	26U3CKC508	DSC XIV: Software Engineering	4	3	25	75	100	4
		26U3CJC503	DSC XV: Full Stack Development	5	3	25	75	100	4
		25U3CSP506	DSC XVI Practical in Full Stack Development	5	3	40	60	100	4
		26U3CKC509	DSC XVII: Computer Networks	4	3	25	75	100	4
		26U3CKE504 26U3CKE505 26U3CKE506	DSE II: Practical in UI/UX Design Practical in Data Visualization Practical in DevOps	4	3	40	60	100	4
		26U3CKE507 26U3CJE508 26U3CKE509	DSE -III: Sustainable Green Computing Machine Learning Mobile Application Development	4	3	25	75	100	4
		26U3CSZ503	SEC VI: Practical in IoT	4	3	20	30	50	2
	IV	26U4CST502	SEC VII: Internship	-	3	50	-	50	2
		26U4SEC503	AEC XI – Campus to Corporate	-	2	25	-	25	1
			30				725	29	
VI	III	26U3CKC610	DSC XVIII: Data Mining	5	3	20	55	75	3
		26U3CSV607	DSC XIX: Project and Viva-Voce	5	3	40	60	100	4
		26U3CKE610 26U3CKE611 26U3CKE612	DSE -IV AI Ethics and Governance Next Generation Networks AI Data Cloud	4	3	25	75	100	4
		26U3CSZ604	SEC VIII: Practical in Full Stack Development and Bio Perl	4	3	20	30	50	2
	IV		AEC XII : Self Study/ Credit Transfer SWAYAM	-	3	-	50	50	2
	V	26U5EXT601	VAC VII : Extension Activity - Community Engagement - NCC/ NSS/YRC/ RRC/Sports/ Clubs	-	-	50	-	50	2
			18+12				425	17	
Total								3750	150
Additional Credit (Optional)		Semester II - VI							6\$

Distribution of Credits and Marks

Part No.	Group	Distribution of Courses	No. of Courses	Credit per sub.	Marks	Credits
I/II/III/ IV	1	AEC	12	3/2/1	600	24
III	2	DSC	19	4/3	1825	73
III	3	DSE	4	4	400	16
III	4	GEC	4	3	300	12
III/IV	5	SEC	8	2/1	375	15
IV	6	VAC	8	2/1	250	10
Total			55		3750	150

I. ABILITY ENHANCEMENT COURSES (AEC)

S.No	Course Code	Subject	Sem.	Hours	Marks	Credits
1	26U1TAM101/ 26U1HIN101/ 26U1MAL101/ 26U1FRN101	AEC I: Elanthamizh / Rachnathmak Hindi/ Kadha, Samskaaram, Vivarthanam/ Français general - I	I	4	75	3
2	26U2ENG101	AEC II: Professional English I	I	4	75	3
3	26U4ENV101	AEC III: Environmental Studies and SDG	I	1	50	2
4	26U4BCS102	AEC IV: Introduction to Cyber Security	I	1	25	1
5	26U1TAM202/ 26U1HIN202/ 26U1MAL202/ 26U1FRN202	AEC V : Pynthamizh / Sanchar Hindi Novalum Bhashaapadanavum/ Français general - II	II	4	75	3
6	26U2ENG202	AEC VI: Professional English II	II	4	75	3
7	26U4SEC201	AEC VII: – Career Foundation Skills	II	-**	25	1
8	26U4NM3BT1/ 26U4NM3AT1/ 26U4NM3CAF/ 26U4NM3GST/ 22U4NM3WRT	AEC VIII : Basic Tamil - I / Advanced Tamil- I / NME: Consumer Affairs / Gender Sensitization/ Women's Rights	III	2	50	2
9	26U4SEC302	AEC IX: : Employability Enhancement Training	III	-**	25	1
10	26U4NM4BT2/ 26U4NM4AT2/ 26U4NM4GEN	AEC X : # @Basic Tamil- II / ##Advanced Tamil- II / General Awareness	IV	2	50	2
11	26U4SEC503	AEC XI – Campus to Corporate	V	-**	25	1
12		AEC XII : Self Study/ Credit Transfer SWAYAM	VI	-	50	2

Total		22 + 6**	600	24
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** To be handled by NCPIR for 30 hours per semester

II. Discipline Specific Courses (DSC)(19 Courses) – Part III

S.No	Course Code	Subject	Sem.	Hours	Marks	Credits
1	26U3CKC101	DSC I: Problem Solving using C	I	5	100	4
2	26U3CKC102	DSC II: Digital Fundamentals and Computer Architecture	I	4	100	4
3	26U3CSP101	DSC III: Practical in C Programming	I	5	100	4
4	23U3CKC203	DSC IV: Java Programming	II	5	100	4
5	23U3CKC204	DSC V: Data Structures	II	5	100	4
6	26U3CSP202	DSC VI: Practical in Data Structures using Java	II	5	100	4
7	26U3CKC305	DSC VII: Relational Database Management System	III	5	100	4
8	25U3CJC303	DSC VIII: Python Programming	III	5	100	4
9	26U3CSP303	DSC IX: Practical in RDBMS and MySQL	III	4	100	4
10	26U3CSP304	DSC X: Practical in Python Programming	III	4	75	3
11	26U3CKC406	DSC XI: Operating System	IV	4	100	4
12	26U3CSC405	DSC XII: R Programming	IV	5	75	3
13	26U3CKC406	DSC XI: Operating System	IV	4	100	4
14	26U3CKC507	DSC XIV: Software Engineering	V	4	100	4
15	25U3CJC506	DSC XV: Full Stack Development	V	5	100	4
16	25U3CSP507	DSC XVI: Practical in Full Stack Development	V	5	100	4
17	26U3CKC508	DSC XVII: Computer Networks	V	4	100	4
18	26U3CKC609	DSC XVIII: Data Mining	VI	5	75	3
19	26U3CSV608	DSC XIX: Project and Viva-Voce	VI	5	100	4
Total					1825	73

III. Discipline Specific Elective Courses (DSE)(04Courses) – Part III

Elective Papers	Course Code	Group	Subject	Sem .	Hours	Mark s	Credit s
DSE I	26U3CKE401	A	Blockchain Technology	IV	4	100	4
	26U3CKE402	B	Digital Marketing				
	26U3CKE403	C	Internet of Things				
DSE - II	26U3CSE501	A	Practical in UI/UX Design	V	4	100	4
	26U3CSE502	B	Practical in Data Visualization				
	26U3CSE503	C	Practical in DevOps				
DSE III	26U3CSE504	A	Sustainable Green Computing	V	4	100	4

	26U3CSE505	B	Machine Learning				
	26U3CSE506	C	Mobile Application Development				
DSE IV	26U3CSE601	A	AI Ethics and Governance	VI	4	100	4
	26U3CSE602	B	Next Generation Networks				
	26U3CSE603	C	AI Data Cloud				
Total						400	16

IV. Generic Elective Course (GEC)(04Courses) – Part III

Elective Papers	Course Code	Group	Subject	Sem.	Hours	Marks	Credits
GEC I	25U3MIA101	A	Allied Paper I: Mathematics for Computer Science	I	4	75	3
		B					
GEC II	25U3MIA202	A	GEC II: Discrete Mathematics	II	4	75	3
		B					
GEC III	25U3MIA303	A	GEC III: Operations Research	III	4	75	3
		B					
GEC IV	23U3BTA404	A	GEC IV: Fundamentals of Bioinformatics	IV	4	75	3
		B					
Total						300	12

V. Skill Enhancement Course (SEC)(08Courses) – Part III / IV

S.No	Course Code	Subject	Sem .	Hour s	Mark s	Credits	
1	26U3CSZ301	SEC I: Practical in AI - Driven Low Code No Code	III	3	50	2	
2	26U4CST301	SEC II: Institutional Training	III	-	25	1	
3	SBOEC	SEC III: Extra Departmental Elective Course	III	2	50	2	
4	26U3CSZ402	SEC IV: Practical in Operating Systems	IV	3	50	2	
5	26U4CSVALC	SEC V: Value Added Course	IV	-**	50	2	
6	26U3CSZ503	SEC VI: Practical in IoT	V	4	50	2	
7	26U4CST502	SEC VII: Internship	V	-	50	2	
8	26U3CSZ604	SEC VIII: Practical in Full Stack Development and Bio Perl	VI	4	50	2	
Total					16	375	15

VI. Value Addition Course (VAC)(07Courses) – Part IV/V

S.No	Course Code	Subject	Sem.	Hours	Marks	Credits
1	26U4HRC202	VAC I: Human Rights and Constitution of India	II	1	25	1
2	26U4HVY201	VAC II: Human Values and Yoga Practice	I&II	1	50	2
3	26U4IKS202	VAC III: Fundamentals of Indian Knowledge System	II	1	25	1
4	VBOEC	VAC IV – Intra School Open Elective Course	IV	2	50	2
5	26U4HWE403	VAC V: Health and Wellness	III & IV	1	25	1
6	26U4EDI404	VAC VI: Entrepreneurship Development and Innovation	IV	1	25	1
7	26U5EXT601	VAC VII : Extension Activity - Community Engagement - NCC/ NSS/YRC/ RRC/Sports/ Clubs	VI	-	50	2
Total				7	250	10

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.	23U4VBOE03	Disaster Management
4.	22U4VBOE04	Environmental Pollution and Waste Management
5.	22U4VBOE05	History of Ancient India
6.	25U4VBOE06	Basics of Research Methodology
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 for Additional Credits

S. No.	Semester	Course code	Course Title
1	II to IV	26UCSSS01	Foundations of Data Science and Analytics
2		26UCSSS02	Emerging Trends in Artificial Intelligence and Machine Learning

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

SEMESTER WISE CREDITS

PART	SEM I	SEM II	SEM III	SEM IV	SEM V	SEM VI	TOTAL
1	3	3					6
2	3	3					6
3	15	15	20	19	24	16	109
4	3	5	6	8	3	2	27
5						2	2

Syllabus Type

Type of Subject	Module Access Code	Credit / sub.	Marks	
			CIA	ESE
Theory - Technical	TE	3/4	25/20	75/55
Theory –Non Technical	TN	2/3/4	25 /20	75/55
Practical	P	2/3/4	40/30/20	60/45/30
Integrated	I	4	40	60
Project / Internship	PV	4	40	60