



NEHRU ARTS AND SCIENCE COLLEGE

(Autonomous)

Reaccredited by NAAC with 'A' Grade, Certified by ISO 9001:2008 & 14001:2004

Recognized by UGC & Affiliated to Bharathiar University

Nehru Gardens, Coimbatore-641 105

Scheme of Examination (II Semester Language)

(Applicable to the students admitted during the year 2018-2019)

BACHELOR OF COMPUTER APPLICATION

SEMESTER	Part	Course Code	Name of the Course	Ins. hrs / week	Examinations				Credits
					Duration Hours	CIA	ESE	Total	
I	I	18U1TAM101/ 18U1HIN101/ 18U1MAL101/ 18U1FRN101	Language-I	5	3	25	75	100	4
	II	18U2ENG101	English-I	5	3	25	75	100	4
	III	18U3CKC101	Core Paper I Computing Fundamentals and C Programming	4	3	25	75	100	4
	III	18U3CKC 102	Core Paper II Digital Fundamentals And Computer Architecture	4	3	25	75	100	4
	III	18U3CAP101	Core Paper III Practical in C Programming	4	3	40	60	100	4
	III	18U3MIA101	Allied Paper I Mathematical Structures for Computer Science	5	3	25	75	100	4
	IV	18U4ENV101	Ability Enhancement Compulsory Course Environmental Studies	2	3	-	50	50	2
	IV	18U4HVY101	Human Excellence – Human Values and Yoga Practice I	1	-	-	-	-	-
				30				650	26
II	I	18U1TAM202/ 18U1HIN202/ 18U1MAL202/ 18U1FRN202	Language-II	5	3	25	75	100	4
	II	18U2ENG202	English-II	5	3	25	75	100	4
	III	18U3CKC 203	Core Paper IV C++ Programming	6	3	25	75	100	4
	III	18U3CAP202	Core Paper V Practical in C++ Programming	6	3	40	60	100	4
	III	18U3MIA202	Allied Paper II Discrete Mathematics	5	3	25	75	100	4
	IV	18U4HRC202	Ability Enhancement Compulsory Course Human Rights & Constitution Of India	2	3	-	50	50	2
	IV	18U4HVY202	Human Excellence – Human Values and Yoga Practice I	1	2	25	25	50	2
				30				600	24

III	III	18U3CKC 304	Core Paper VI Data Structures	5	3	25	75	100	4
	III	18U3CKC305	Core Paper VII Java Programming	5	3	25	75	100	4
	III	18U3CAP303	Core Paper VIII Practical in Java Programming	6	3	40	60	100	4
	III	18U3MIA303	Allied Paper III Computer Based Optimization Techniques	5	3	25	75	100	4
	IV	18U4CAS301	Skill Based Paper I PHP Programming	4	3	20	55	75	2
	IV	18U4NM3BT1 18U4NM3AT1 18U4NM3YHE 18U4NM3GTS 18U4NM3WRT	# Basic Tamil / ##Advanced Tamil / * NME: Yoga for Human Excellence / Gandhian Thoughts / Women's Rights	2	3	50		50	2
	IV	18U4CA3ED1/ 18U4CA3ED2	Extra Department Course	2	3	-	50	50	2
	IV	18U4HVY303	Human Excellence – Human Values and Yoga Practice II	1	-	-	-	-	-
	IV	18U4CAVALC	** Skill Enhancement Value Added Course- Institute Industry Linkage	-	-	-	-	-	-
				30				575	22
IV	III	18U3CKC406	Core Paper XI Operating Systems	6	3	25	75	100	4
	III	18U3CKC407	Core Paper X Computer Networks	6	3	25	75	100	4
	III	18U3CAP404	Core Paper XI Operating System Lab	6	3	40	60	100	4
	III	18U3BAA404	Allied Paper IV Accounting for Cost and Management	6	3	25	75	100	4
	IV	18U4CAZ402	Skill Based Paper II PHP Lab	3	3	30	45	75	2
	IV	18U4NM4BT2 18U4NM4AT2 18U4NM4GEN	# Basic Tamil / ##Advanced Tamil / General Awareness	2	2	50		50	2
	IV	18U4HVY404	Human Excellence – Human Values and Yoga Practice II	1	2	25	25	50	2
	IV	18U4CAVALC	** Skill Enhancement Value Added Course- Institute Industry Linkage	-	-	-	-	-	Gr
				30				575	22
V	III	18U3CKC508	Core Paper XII RDBMS & ORACLE	5	3	25	75	100	4
	III	18U3CKC509	Core Paper XIII Software Engineering	5	3	25	75	100	4
	III	18U3CAC505	Core Paper XIV Visual Programming –Visual Basic	5	3	25	75	100	4
	III	18U3CAP506	Core Paper XV Programming Lab Using Visual Basic & ORACLE	6	3	40	60	100	4
	III	18U3CKE501/ 502/ 503/ 504	Elective Paper – I	5	3	25	75	100	4
	IV	18U4CAS503	Skill Based Paper III Mobile Application Development	4	3	20	55	75	2
				30				575	22

VI									
III	18U3CAC607	Core Paper XVI Multimedia Techniques	6	3	25	75	100	4	
III	18U3CAP608	Core Paper XVII Programming Lab using GIMP & Inkscape	5	3	40	60	100	4	
III	18U3CAV609	Core Paper XVIII PROJECT & VIVA VOCE	5	3		100	100	4	
III	18U3CKE 605/ 606/607/608	Elective Paper – II	5	3	25	75	100	4	
III	18U3CKE 609/ 610/ 611/ 612	Elective Paper – III	5	3	25	75	100	4	
IV	18U4CAZ604	Skill Based Paper IV Mobile Application Development Practical	4	3	30	45	75	2	
V	18U5CA6EXT	Extension Activities	-	-	-	-	50	2	
			30				625	24	
		Total					3600	140	
		Additional Credit Optional(II-V)							8^s

Basic Tamil -Students who have not studied Tamil up to 12th standard.

##**Advance Tamil** – Students who have studied Tamil language up to 12th standard and chosen other languages under part I of UG 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 & CGPA Calculation

**Examination and evaluation for value added course shall be conducted by the industry and mark shall be submitted to the Controller of Examination for the award of grade

Discipline Specific Elective papers (DSE)

Electives	Subject Code	Subjects
I	17U3CKE501	e-Commerce
	17U3CKE502	Compiler Design
	17U3CKE503	Internet of Things
	17U3CKE504	Big Data Analytics
II	17U3CKE605	Software Agent
	17U3CKE606	Information Security
	17U3CKE607	Cloud Computing
	17U3CKE608	Cyber Security
III	17U3CAE609	Client/Server Computing
	17U3CAE610	Open Source Technology
	17U3CAE611	Advanced Java Programming
	17U3CAE612	System Software

Extra Departmental Course

S.No.	Semester	Course Code	Course Title
1	III	17U4CA4ED1	ORACLE Programming
2		17U4CA4ED2	Web Development using HTML

Additional Credit Course

Earning Additional credit course is not mandatory for Course Completion
Additional credits: 8

S. No.	Subject	Credit/ course	Total credits
1	Completion of Certificate Course	1	1
2	Hindi/ other Foreign languages	1	1
3	Self Study Papers	1	2
4	Massive Open Online Courses/Spoken Tutorial prescribed by the Departments	1	3
5	Representation - Sports/Social Activities/ Co curricular/Extracurricular Activities at University/ District/ State/ National/ International levels	1	1
Total			8

Rules: The Students can earn additional credits only if they complete the above during the course period (II to V Sem) and based on the following criteria. Proof of Completion must be submitted to the Office of Controller of Examinations before the commencement of the VI Semester. (Earning Additional credit course is not mandatory for Course Completion)

1. Students can complete Certification Courses for a minimum of 30hrs (II to V Semester only) from reputed centers and the same certificate shall be produced to earn a credit. They shall be guided by the Department if needed.
2. Students can opt Hindi/ any Foreign Language approved by Certified Institutions to earn one credit. The certificate of Hindi must be obtained from Dakshin Bharat Hindi Prachar Sabha and He/ She has to enrol and complete during their course period (II to V Semester only)
3. Students can earn one credit, if they complete One Self study Paper prescribed by the Department. The Departments shall offer two Self Study Papers.

Self Study Paper offered by Department of Computer Application

S. No.	Semester	Course code	Course Title
1	Semester II to V	17UCASS01	Problem Solving And Programming
2		17UCASS02	Web Design Using HTML

4. Students can earn one Credit, if they complete any one MOOC / Spoken Tutorial prescribed by the Department. Students shall earn a maximum of 3 Additional Credits by completing 3 online courses.

List of Online Courses prescribed by Department of Computer Application

1. C Programming
2. Advance C++
3. Java / NetBeans
4. Python
5. Linux OS

Note: Other than the above mentioned courses, any course from recognized websites with the consent of the Head of the Department will also be accepted.

5. Award Winners in Sports/Social Activities/ Co curricular/ Extra Curricular Activities at University/ District/ State/ National/ International levels can earn One Extra Credit by producing the Certificate.

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