DEPARTMENT OF COMPUTER SCIENCE

PROGRAMME STRUCTURE

COURSE TYPE	PAPER CODE	PAPER NAME	COURSE HOURS			С	EVALUTION SCHEME			
IIFL	CODL		L	Т	Р		CIA	ESE	TOTAL	
		SEMESTER – I								
DSC	HCS-C101	Problem solving using C Programming	4	-	-	4	40	60	100	
	HCS-C151	C Programming - Lab	-	-	4	2	40	60	100	
	HCS-C102	Fundamental of Computer	4	-	-	4	40	60	100	
	HCS-C152	Windows & UNIX - Lab	-	-	4	2	40	60	100	
	HCS-C103	Discrete Mathematics	4	-	-	4	40	60	100	
AECC		From AECC Pool	4	-	-	4	40	60	100	
VAC		From VAC Pool	2	-	-	2	40	60	100	
CoC		From CoC Pool (Qualifying)	-	-	-	-	40	60	100	
TOTAL CRE						22				
		SEMESTER – II								
DSC	HCS-C201	Data Structure	4	-	-	4	40	60	100	
	HCS-C251	Data Structure using C - Lab	-	-	4	2	40	60	100	
	HCS-C202	Object Oriented Programming using Java	4	-	-	4	40	60	100	
	HCS-C252	Object Oriented Programming using Java - Lab	-	-	4	2	40	60	100	
	HCS-C203	Computer System Architecture	4	-	-	4	40	60	100	
AECC		From AECC Pool	4	-	-	4	40	60	100	
VAC		From VAC Pool	2	-	-	2	40	60	100	
CoC		From CoC Pool (Qualifying)	-	-	-	-	40	60	100	
				CRE	DITS	22				
		SEMESTER – III								
	HCS-C301	Database Management System	4	-	-	4	40	60	100	
DSC	HCS-C351	Database Management System - Lab	-	-	4	2	40	60	100	
	HCS-C302	Computer Networks	4	-	-	4	40	60	100	
	HCS-C303	Operating System	4	-	-	4	40	60	100	
SEC	HCS-S301	Cyber Law and Information Security	2	-	-	2	40	60	100	
OLO	HCS-S351	Information Security - Lab	-	-	4	2	40	60	100	
VAC		From VAC Pool	2	-	-	2	40	60	100	
VAC		From VAC Pool	2	-	-	2	40	60	100	
TOTAL CREDITS 22										
		SEMESTER – IV						I	1 .	
DSC	HCS-C401	Software Engineering	4	-	-	4	40	60	100	
	HCS-C451	Software Engineering - Lab	-	-	4	2	40	60	100	
	HCS-C402	Design and Analysis of Algorithm	4	-	-	4	40	60	100	
	HCS-C403	Artificial Intelligence	4	-	-	4	40	60	100	
SEC	HCS-S401	Graph Theory	2	-	-	2	40	60	100	
	HCS-S451	Graph Theory - Lab	-	-	4	2	40	60	100	
VAC		From VAC Pool	2	-	-	2	40	60	100	
		From VAC Pool	2	-	-	2	40	60	100	
		Т	OTAL	CRE	DITS	22				

		SEMESTER – V							
DSC	HCS-C501	Theory of Computer Science	4	-	_	4	40	60	100
DSE	HCS-E50X	From the List of Electives in Comp. Sc.	4	-	-	4	40	60	100
GE		From GE Pool	-	-	-	6	40	60	100
SEC	HCS-S501	Client Side Web Technology	2	-	-	2	40	60	100
	HCS-S551	Client Side Web Technology - Lab	-	-	4	2	40	60	100
VAC		From VAC Pool	2	-	-	2	40	60	100
ISRD	HCS-C561	Project 1	-	-	4	2	-	-	100
,					DITS	22	•		,
SEMESTER – VI									
DSC	HCS-C601	Compiler Design	4	-	-	4	40	60	100
DSE	HCS-E60X	From the List of Electives in Comp. Sc.	4	-	-	4	40	60	100
GE		From GE Pool	-	-	-	6	40	60	100
SEC	HCS-S601	Server Side Web Technology	2	-	-	2	40	60	100
	HCS-S651	Server Side Web Technology - Lab	-	-	4	2	40	60	100
VAC		From VAC Pool	2	-	-	2	40	60	100
ISRD	HCS-C661	Project 2	_	-	4	2	-	-	100
סוטו	1100 0001								
IOND	1100 0001	Т		CREI	DITS	22			
IOND		T SEMESTER – VII		CREI	DITS				
	HCS-C701	SEMESTER – VII Python Programming		CREI	-	4	40	60	100
DSC	HCS-C701 HCS-C751	T SEMESTER – VII Python Programming Python Programming - Lab	4 -	CREI	OITS - 4	4 2	40	60	100
DSC	HCS-C701 HCS-C751 HCS-E70X	Python Programming Python Programming - Lab From the List of Electives in Comp. Sc.	4 - 4	- - -	-	4 2 4	40 40	60 60	100 100 100
DSC DSE	HCS-C701 HCS-C751 HCS-E70X HCS-O701	Python Programming Python Programming - Lab From the List of Electives in Comp. Sc. Online Course*	4 - 4 4	-	- 4	4 2 4 4	40 40 40	60 60 60	100 100 100 100
DSC DSE VoC	HCS-C701 HCS-C751 HCS-E70X HCS-O701 HCS-V701	Python Programming Python Programming - Lab From the List of Electives in Comp. Sc. Online Course* From VoC Pool	4 - 4	-	- 4 - -	4 2 4 4 2	40 40	60 60	100 100 100 100 100
DSC DSE	HCS-C701 HCS-C751 HCS-E70X HCS-O701	Python Programming Python Programming - Lab From the List of Electives in Comp. Sc. Online Course* From VoC Pool Dissertation	4 4 4 2 -	- - - -	- 4 - - - 12	4 2 4 4 2 6	40 40 40	60 60 60	100 100 100 100
DSC DSE VoC	HCS-C701 HCS-C751 HCS-E70X HCS-O701 HCS-V701	Python Programming Python Programming - Lab From the List of Electives in Comp. Sc. Online Course* From VoC Pool Dissertation	4 - 4 4 2 -	-	- 4 - - - 12	4 2 4 4 2	40 40 40	60 60 60	100 100 100 100 100
DSC DSE VoC	HCS-C701 HCS-C751 HCS-E70X HCS-O701 HCS-V701 HCS-761	Python Programming Python Programming - Lab From the List of Electives in Comp. Sc. Online Course* From VoC Pool Dissertation T SEMESTER - VII	4 - 4 4 2 - OTAL	- - - -	- 4 - - - 12	4 2 4 4 2 6 22	40 40 40 40 -	60 60 60 60	100 100 100 100 100 100
DSC DSE VoC	HCS-C701 HCS-C751 HCS-E70X HCS-O701 HCS-V701 HCS-761	Python Programming Python Programming - Lab From the List of Electives in Comp. Sc. Online Course* From VoC Pool Dissertation T SEMESTER - VII Machine Learning	4 - 4 4 2 -	- - - - - - CREI	- 4 - - - 12 DITS	4 2 4 4 2 6 22	40 40 40 40 -	60 60 60 60 -	100 100 100 100 100 100
DSC DSE VoC ISRD	HCS-C701 HCS-C751 HCS-E70X HCS-O701 HCS-V701 HCS-761 HCS-C801 HCS-C851	Python Programming Python Programming - Lab From the List of Electives in Comp. Sc. Online Course* From VoC Pool Dissertation T SEMESTER - VII Machine Learning Machine Learning - Lab	4 - 4 - 2 - OTAL	- - - - - . CREI	- 4 - - - 12 DITS	4 2 4 4 2 6 22	40 40 40 40 - - 40 40 40	60 60 60 60 -	100 100 100 100 100 100
DSC DSE VoC ISRD	HCS-C701 HCS-C751 HCS-E70X HCS-O701 HCS-V701 HCS-761 HCS-C851 HCS-C851 HCS-E80X	Python Programming Python Programming - Lab From the List of Electives in Comp. Sc. Online Course* From VoC Pool Dissertation T SEMESTER - VII Machine Learning Machine Learning - Lab From the List of Electives in Comp. Sc.	4 - 4 2 - OTAL 4 - 4	- - - - - CREI	- 4 - - 12 DITS	4 2 4 4 2 6 22 4 2	40 40 40 40 - - 40 40 40 40	60 60 60 60 - 60 60 60	100 100 100 100 100 100 100 100
DSC DSE VoC ISRD DSC DSC	HCS-C701 HCS-C751 HCS-E70X HCS-O701 HCS-V701 HCS-761 HCS-C801 HCS-C851 HCS-E80X HCS-E80Y	Python Programming Python Programming - Lab From the List of Electives in Comp. Sc. Online Course* From VoC Pool Dissertation T SEMESTER - VII Machine Learning Machine Learning - Lab From the List of Electives in Comp. Sc. From the List of Electives in Comp. Sc.	4 - 4 2 - OTAL 4 - 4	- - - - - CREI	- 4 - - - 12 DITS	4 2 4 4 2 6 22 4 2 4	40 40 40 40 - 40 40 40 40	60 60 60 60 - 60 60 60	100 100 100 100 100 100 100 100 100
DSC DSE VoC ISRD DSC DSE VoC	HCS-C701 HCS-C751 HCS-E70X HCS-O701 HCS-V701 HCS-761 HCS-C851 HCS-C851 HCS-E80X HCS-E80Y HCS-V801	Python Programming Python Programming - Lab From the List of Electives in Comp. Sc. Online Course* From VoC Pool Dissertation T SEMESTER - VII Machine Learning Machine Learning - Lab From the List of Electives in Comp. Sc. From the List of Electives in Comp. Sc. From VoC Pool	4 - 4 2 - OTAL 4 - 4	- - - - - CREI	- 4 - - 12 DITS	4 2 4 2 6 22 4 2 4 4 2	40 40 40 40 - - 40 40 40 40	60 60 60 60 - 60 60 60	100 100 100 100 100 100 100 100 100
DSC DSE VoC ISRD DSC DSC	HCS-C701 HCS-C751 HCS-E70X HCS-O701 HCS-V701 HCS-761 HCS-C801 HCS-C851 HCS-E80X HCS-E80Y	SEMESTER - VII Python Programming Python Programming - Lab From the List of Electives in Comp. Sc. Online Course* From VoC Pool Dissertation T SEMESTER - VII Machine Learning Machine Learning - Lab From the List of Electives in Comp. Sc. From VoC Pool Dissertation	4 - 4 2 - OTAL 4 - 4 2 -	- - - - - CREI	- 4 - - 12 DITS	4 2 4 4 2 6 22 4 2 4	40 40 40 40 - 40 40 40 40	60 60 60 60 - 60 60 60	100 100 100 100 100 100 100 100 100

^{*} This course has to be completed by the students from NPTEL/SWAYAM/MOOCs/etc. online platform. They should undergo the online course completely, submit assignments, projects, etc. and appear for the final exam conducted by the online instructor. The student can select the course from the approved list of online courses by the Department of Computer Science for that semester. The awarded certificate must be submitted for the award of credits in this course.

L- Lecture T - Tutorial P - Practical C- Credits

DSC- Discipline Specific CoreVoC- Vocational CoursesDSE- Discipline Specific ElectiveCoC- Co-CurricularSEC- Skill Enhancement CourseISRD- Industrial Training/Survey and Field Work/

GE - Generic Elective Research Project/ Dissertations

AECC - Ability Enhancement Compulsory Course CIA - Continuous Internal Assessment VAC - Value addition course ESE - End Semester Examination