

DEPARTMENT OF COMPUTER SCIENCE

PROGRAMME STRUCTURE

COURSE TYPE	PAPER CODE	PAPER NAME	COURSE HOURS			C	EVALUTION SCHEME		
			L	T	P		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 CREDITS						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
TOTAL CREDITS						22			
SEMESTER – III									
DSC	HCS-C301	Database Management System	4	-	-	4	40	60	100
	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
	HCS-S351	Information Security - Lab	-	-	4	2	40	60	100
VAC		From VAC Pool	2	-	-	2	40	60	100
		From VAC Pool	2	-	-	2	40	60	100
TOTAL CREDITS						22			
SEMESTER – IV									
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
TOTAL CREDITS						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
TOTAL CREDITS						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
TOTAL CREDITS						22			
SEMESTER – VII									
DSC	HCS-C701	Python Programming	4	-	-	4	40	60	100
	HCS-C751	Python Programming - Lab	-	-	4	2	40	60	100
DSE	HCS-E70X	From the List of Electives in Comp. Sc.	4	-	-	4	40	60	100
	HCS-O701	Online Course*	4	-	-	4	40	60	100
VoC	HCS-V701	From VoC Pool	2	-	-	2	40	60	100
ISRD	HCS-761	Dissertation	-	-	12	6	-	-	100
TOTAL CREDITS						22			
SEMESTER – VIII									
DSC	HCS-C801	Machine Learning	4	-	-	4	40	60	100
	HCS-C851	Machine Learning - Lab	-	-	4	2	40	60	100
DSE	HCS-E80X	From the List of Electives in Comp. Sc.	4	-	-	4	40	60	100
	HCS-E80Y	From the List of Electives in Comp. Sc.	4	-	-	4	40	60	100
VoC	HCS-V801	From VoC Pool	2	-	-	2	40	60	100
ISRD	HCS-C861	Dissertation	-	-	12	6	-	-	100
TOTAL CREDITS						22			

* 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 Core
DSE - Discipline Specific Elective
SEC - Skill Enhancement Course
GE - Generic Elective
AECC - Ability Enhancement Compulsory Course
VAC - Value addition course

VoC - Vocational Courses
CoC - Co-Curricular
ISRD - Industrial Training/Survey and Field Work/
 Research Project/ Dissertations
CIA - Continuous Internal Assessment
ESE - End Semester Examination