

Dr D Y Patil School of Science & Technology

Course Structure for the Bachelor of Science in Computer Science as follows:

Program: B. Sc. (Basic and Honors) Subject: Computer Science
Track : 1: Cloud Computing / 2: Data Science/ 3: Cyber Security

I & II Semester Certificate in Computer Science after securing 44 credits	Course Code	Course Type	Course Name
	BSC-BCS-101	Major	Problem solving using Computer
	BSC-BCS-102	Major	Mathematics for Computing
	BSC-BCS-103	Major	Computer System Architecture
	PCC-BCS-101	VA	Value Added Course
	PEC-BCS-101	DSE	Discipline Specific Elective -1
	HSMC-BCS-101	AEC	Ability/Skill Enhancement Course
	Course Code	Course Type	Course Name
	BSC-BCS-201	Major	Object Oriented Programming
	BSC-BCS-202	Major	Discrete Mathematics
	BSC-BCS-203	Major	Database Management System
	PCC-BCS-201	VA	Value Added Course
	PEC-BCS-201	DSE	Discipline Specific Elective -2
HSMC-BCS-201	AEC	Ability/Skill Enhancement Course	
III & IV Semester Diploma in Computer Science after securing 88 credits	Course Code	Course Type	Course Name
	BSC-BCS-301	Major	Data Structures
	BSC-BCS-302	Major	Computer Networks
	BSC-BCS-303	Major	Theory of Optimization & Graph Theory
	PCC-BCS-301	VA	Value Added Course
	PEC-BCS-301	DSE	Discipline Specific Elective -3
	HSMC-BCS-301	AEC	Ability/Skill Enhancement Course
	Course Code	Course Type	Course Name
	BSC-BCS-401	Major	Design and Analysis of Algorithms
	BSC-BCS-402	Major	Theory of Computation
	BSC-BCS-403	Major	Software Engineering
	PCC-BCS-401	VA	Value Added Course
	PEC-BCS-401	DSE	Discipline Specific Elective -4
HSMC-BCS-401	AEC	Ability/Skill Enhancement Course	

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V & VI Semester Bachelor in Computer Science after securing 132 credits	Course Code	Course Type	Course Name
	BSC-BCS-501	Major	Artificial Intelligence
	BSC-BCS-502	Major	Data warehousing and Mining
	BSC-BCS-503	Major	Mobile Applications and Development Using Android
	PCC-BCS-501	VA	Value Added Course
	PEC-BCS-501	DSE	Discipline Specific Elective -1
	HSMC-BCS-501	AEC	Ability/Skill Enhancement Course
	Course Code	Course Type	Course Name
	BSC-BCS-601	Major	Intelligent Systems
	BSC-BCS-602	Major	Big Data Analytics
	BSC-BCS-603	Major	Compiler Design
	PCC-BCS-601	VA	Value Added Course
	PEC-BCS-601	GE	Generic Elective -1
HSMC-BCS-601	AEC	Ability/Skill Enhancement Course	
VII & VIII Semester Bachelor in Computer Science (Honors) after securing 164 Credits		Course Type	Course Name
PCC-BCS-701	Major	Research Project -I	
PCC-BCS-702	Course Type	Course Name	
	Major	Research Project -II	