Dr D Y Patil School of Science & Technology

Details of BCA Course Structure as follows:

I & II	Course Code	Course Type	e Course Name
Semester	BCA-CA-101	Major	Problem Solving and Programming In C
	BCA-CA-102	Major	Discrete Mathematics and Graph Theory
	BCA-CA-103	Major	Computer Organization and Architecture
	PCC-CA-101	VA	Value Added Course – I
	PEC-CA-101	DSE	Discipline Specific Elective -1
Certificate in	HSMC-CA-101	AEC	Ability/Skill Enhancement Course
Computer			
Applications			
after securing 44 credits			
44 creats	G G 1		G N
	Course Code	Course Type	
	BCA-CA-201	Major	Object Oriented Programming
	BCA-CA-202	Major	Statistics for Engineers
	BCA-CA-203	Major	Principles of Database Systems
	PCC-CA-201	VA	Value Added Course
	PEC-CA-201	DSE	Discipline Specific Elective -2
	HSMC-CA-201	AEC	Ability/Skill Enhancement Course
III & IV	Course Code	Course Type	e Course Name
Semester	BCA-CA-301	Major	Data Structures
	BCA-CA-302	Major	Advanced Database Management System
	BCA-CA-303	Major	Operating System Principles
	PCC-CA-301	VA	Value Added Course
	PEC-CA-301	DSE	Discipline Specific Elective -3
	PEC-CA-301 HSMC-CA-301	DSE AEC	Discipline Specific Elective -3 Ability/Skill Enhancement Course
			Discipline Specific Elective -3 Ability/Skill Enhancement Course
Diploma			
in			
in Computer			
in Computer Application			Ability/Skill Enhancement Course
in Computer Application after securing	HSMC-CA-301	AEC	Ability/Skill Enhancement Course
in Computer Application	HSMC-CA-301 Course Code	AEC Course Type	Ability/Skill Enhancement Course Course Name
in Computer Application after securing	HSMC-CA-301 Course Code BCA-CA-401	AEC Course Type Major	Ability/Skill Enhancement Course Course Name Design and Analysis of Algorithms System Programming
in Computer Application after securing	Course Code BCA-CA-401 BCA-CA-402	Course Type Major Major	Ability/Skill Enhancement Course Course Name Design and Analysis of Algorithms
in Computer Application after securing	Course Code BCA-CA-401 BCA-CA-402 BCA-CA-403	Course Type Major Major Major	Ability/Skill Enhancement Course Course Name Design and Analysis of Algorithms System Programming Cloud Computing Methodologies Value Added Course
in Computer Application after securing	Course Code BCA-CA-401 BCA-CA-403 PCC-CA-401 PEC-CA-401	Course Type Major Major Major VA DSE	Ability/Skill Enhancement Course Course Name Design and Analysis of Algorithms System Programming Cloud Computing Methodologies Value Added Course Discipline Specific Elective -4
in Computer Application after securing	Course Code BCA-CA-401 BCA-CA-403 PCC-CA-401	Course Type Major Major Major VA	Ability/Skill Enhancement Course Course Name Design and Analysis of Algorithms System Programming Cloud Computing Methodologies Value Added Course
in Computer Application after securing	Course Code BCA-CA-401 BCA-CA-403 PCC-CA-401 PEC-CA-401	Course Type Major Major Major VA DSE	Ability/Skill Enhancement Course Course Name Design and Analysis of Algorithms System Programming Cloud Computing Methodologies Value Added Course Discipline Specific Elective -4
in Computer Application after securing	Course Code BCA-CA-401 BCA-CA-403 PCC-CA-401 PEC-CA-401	Course Type Major Major Major VA DSE	Ability/Skill Enhancement Course Course Name Design and Analysis of Algorithms System Programming Cloud Computing Methodologies Value Added Course Discipline Specific Elective -4
in Computer Application after securing	Course Code BCA-CA-401 BCA-CA-403 PCC-CA-401 PEC-CA-401	Course Type Major Major Major VA DSE	Ability/Skill Enhancement Course Course Name Design and Analysis of Algorithms System Programming Cloud Computing Methodologies Value Added Course Discipline Specific Elective -4
in Computer Application after securing 88 credits	Course Code BCA-CA-401 BCA-CA-402 BCA-CA-403 PCC-CA-401 PEC-CA-401	Course Type Major Major Major VA DSE AEC	Ability/Skill Enhancement Course Course Name Design and Analysis of Algorithms System Programming Cloud Computing Methodologies Value Added Course Discipline Specific Elective -4 Ability/Skill Enhancement Course
in Computer Application after securing 88 credits	Course Code BCA-CA-401 BCA-CA-402 BCA-CA-403 PCC-CA-401 PEC-CA-401 HSMC-CA-401	Course Type Major Major Major VA DSE AEC Course Type	Ability/Skill Enhancement Course Course Name Design and Analysis of Algorithms System Programming Cloud Computing Methodologies Value Added Course Discipline Specific Elective -4 Ability/Skill Enhancement Course Course Name
in Computer Application after securing 88 credits	Course Code BCA-CA-401 BCA-CA-402 BCA-CA-403 PCC-CA-401 PEC-CA-401 HSMC-CA-401	Course Type Major Major VA DSE AEC Course Type Major	Ability/Skill Enhancement Course Course Name Design and Analysis of Algorithms System Programming Cloud Computing Methodologies Value Added Course Discipline Specific Elective -4 Ability/Skill Enhancement Course Course Name Introduction to Data Science
in Computer Application after securing	Course Code BCA-CA-401 BCA-CA-403 PCC-CA-401 PEC-CA-401 HSMC-CA-401 Course Code BCA-CA-501 BCA-CA-502	Course Type Major Major VA DSE AEC Course Type Major Major	Ability/Skill Enhancement Course Course Name Design and Analysis of Algorithms System Programming Cloud Computing Methodologies Value Added Course Discipline Specific Elective -4 Ability/Skill Enhancement Course Course Name Introduction to Data Science Formal Languages and Automata Theory.
in Computer Application after securing 88 credits	Course Code BCA-CA-401 BCA-CA-402 BCA-CA-401 PEC-CA-401 PEC-CA-401 HSMC-CA-401 BCA-CA-501 BCA-CA-501 BCA-CA-502 BCA-CA-503	Course Type Major Major VA DSE AEC Course Type Major Major Major Major Major	Ability/Skill Enhancement Course Course Name Design and Analysis of Algorithms System Programming Cloud Computing Methodologies Value Added Course Discipline Specific Elective -4 Ability/Skill Enhancement Course Course Name Introduction to Data Science Formal Languages and Automata Theory. Data Communication and Networks
in Computer Application after securing 88 credits	Course Code BCA-CA-401 BCA-CA-403 PCC-CA-401 PEC-CA-401 HSMC-CA-401 Course Code BCA-CA-501 BCA-CA-502	Course Type Major Major VA DSE AEC Course Type Major Major	Ability/Skill Enhancement Course Course Name Design and Analysis of Algorithms System Programming Cloud Computing Methodologies Value Added Course Discipline Specific Elective -4 Ability/Skill Enhancement Course Course Name Introduction to Data Science Formal Languages and Automata Theory.

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	HSMC-CA- 501	AEC	Ability/Skill Enhancement Course
	Course Code	Course	Course Name
Bachelor in Computer Applications after securing 132 Credits		Type	Course Name
	BCA-CA-601	Major	Applied Cryptography and Network Security
	BCA-CA-602	Major	Artificial Intelligence and Experts Systems
	BCA-CA-603	Major	Compiler Design
	PCC-CA-601	VA	Value Added Course
	PEC-CA-601	DSE	Discipline Specific Elective -6
	HSMC-CA-601	AEC	Ability/Skill Enhancement Course
VII & VIII Semester		Course	
Semester		Type	Course Name
		Major	Research Project -I
Bachelor in Computer			
Science (Honors) after securing 164		Course Type	Course Name
		Major	Research Project -II
credits			Total