TEACHING PLAN
DEPARTMENT OF COMPUTER SCIENCE
BACHELOR OF COMPUTER APPLICATION
SBMS COLLEGE, SUALKUCHI
Session: 2021-2022

Department:	Computer Science	Semester	I
Course:	Major	Paper No:	BCA-HC-1016
Credit:	6	Marks:	80

Paper:1

Paper Name: Introduction to C programming

Unit	Course Content	Allotted to	Hours	Months	Date
I	Overview of C	Amitabh Sarma	7 Hrs	August to November – Blended mode	3 August -26 November
II	Decision Making and Branching Statement	Simanta Sarma	16 Hrs	August to November – Blended mode	3 August -26 November
III	Arrays Functions & Structures and Unions, Pointers	Amitabh Sarma	20 Hrs	August to November – Blended mode	3 August -26 November
IV	File Management in C	Shasankar Das	10 Hrs	August to November – Blended mode	3 August -26 November
V	Practical	Amitabh Sarma	10 Hrs	August to November – Blended mode	3 August -26 November

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Department:	Computer Science	Semester	I
Course:	Major	Paper No:	BCA-HC-1026
Credit:	6	Marks:	80

Paper:1I					
Paper Name: Computer Fundamentals & ICT Hardware					
Unit	Course Content	Allotted to	Hours	Months	Date
I	Evolution of Computer system	Shasankar Das	15Hrs	August to November – Blended mode	3 August -26 November
II	Hard Disk Drive: Optical Media	Simanta Sarma	10 Hrs	August to November – Blended mode	3 August -26 November
III	Processor	Amitabh Sarma	14 Hrs	August to November – Blended mode	3 August -26 November
IV	SMPS	Shasankar Das	07Hrs	August to November – Blended mode	3 August -26 November
V	Practical	Amitabh Sarma	10 Hrs	August to November – Blended mode	3 August -26 November

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Department:	Computer Science	Semester		I	
Course:	GE	Paper No:		BCA-HG-1026	
Credit:	6	Marks:		50	

Paper:III

Paper Name: OFFICE AUTOMATION

Unit	Course Content	Allotted to	Hours	Month	Month
I	Word Processing	Shasankar Das	7 Hrs	August to November – Blended mode	3 August -26 November
II	Spreadsheet	Simanta Sarma	16 Hrs	August to November – Blended mode	3 August -26 November
III	Presentation Tools	Amitabh Sarma	20 Hrs	August to November – Blended mode	3 August -26 November
IV	DTP Software	Shasankar Das	10 hrs	August to November – Blended mode	3 August -26 November
V	Practical	Amitabh Sarma	10 Hrs	August to November – Blended mode	3 August -26 November

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Department:	Computer Science	Semester	III
Course:	Major	Paper No:	BCA-HC-3016
Credit:	6	Marks:	80

Paper:1 Paper Name: Software Engineering					
Unit	Course Content	Allotted to	Hours	Months	Date
I	Introduction	Simanta Sarma	16Hrs	August to November – Blended mode	3 August -26 November
II	Software Project Planning	Simanta Sarma	12 Hrs	August to November – Blended mode	3 August -26 November
III	Software Design	Amitabh Sarma	07 Hrs	August to November – Blended mode	3 August -26 November
IV	Software Testing and Maintenance	Shasankar Das	16Hrs	August to November – Blended mode	3 August -26 November

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Department:	Computer Science	Semester	III
Course:	Major	Paper No:	BCA-HC-3026
Credit:	6	Marks:	80

Paper:1I					
Paper Name: Data Structure and Algorithms					
Unit	Course Content	Allotted to	Hours	Month	Date
I	**Definition, Linked Structure**	Simanta Sarma	07Hrs	August to November – Blended mode	3 August -26 November
II	Linked Structure	Amitabh Sarma	10 Hrs	August to November – Blended mode	3 August -26 November
III	Stacks and Queues Binary Trees	Amitabh Sarma	12 Hrs	August to November – Blended mode	3 August -26 November
IV	Searching Sorting	Amitabh Sarma	16Hrs	August to November – Blended mode	3 August -26 November
V	Practical	Amitabh Sarma	10 Hrs	August to November – Blended mode	3 August -26 November

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Department:	Computer Science	Semester	III
Course:	Major	Paper No:	BCA-HC-3036
Credit:	6	Marks:	80

Paper:1II Paper Name: DATABASE MANAGEMENT SYSTEM					
Unit	Course Content	Allotted to	Hours	Month	Date
I	File Structure	Simanta Sarma	7 Hrs	August to November – Blended mode	3 August -26 November
II	Overview of Database Management System	Simanta Sarma	10 Hrs	August to November – Blended mode	3 August -26 November
III	Relational Models	Shasankar Das	10 Hrs	August to November – Blended mode	3 August -26 November
IV	Database Design	Amitabh Sarma	12 6Hrs	August to November – Blended mode	3 August -26 November
V	Practical	Amitabh Sarma	10 Hrs	August to November – Blended mode	3 August -26 November

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Department:	Computer Science	Semester	III
Course:	SEC	Paper No:	BCA-SE-3014
Credit:	6	Marks:	80

Paper:1V Paper Name: Web Technology					
Unit	Course Content	Allotted to	Hours	Months	Date
I	Overview of the World Wide Web and the internet	Simanta Sarma	10 Hrs	August to November – Blended mode	3 August - 26 November
II	Inside the firewall AND Linking database to the Web	Shasankar Das	10 Hrs	August to November – Blended mode	3 August - 26 November
III	HTML editors and tools	Shasankar Das	10 Hrs	August to November – Blended mode	3 August - 26 November
IV	HTML editors and tools	Shasankar Das	10 Hrs	August to November – Blended mode	3 August - 26 November
V	Practical	Amitabh Sarma	10 Hrs	August to November – Blended mode	3 August - 26 November

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Department:	Computer Science	Semester	III
Course:	GE	Paper No:	BCA-HG-3016
Credit:	6	Marks:	80

Paper:V					
Paper Name: Introduction to Indian History					
Unit	Course Content	Allotted to	Hours	Month	Date
I	Features of Indus Valley Civilization	Amitabh Sarma	16 Hrs	August to November – Blended mode	3 August -26 November
II	Gupta Period	Shasankar Das	10 Hrs	August to November – Blended mode	3 August -26 November
III	Foundation of Muslim rule in India	Simanta Sarma	12 Hrs	August to November – Blended mode	3 August -26 November
IV	Arrival of Europeans	Shasankar Das	10Hrs	August to November – Blended mode	3 August -26 November

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Department:	Computer Science	Semester	V
Course:	Major	Paper No:	BCA-HC-5016
Credit:	06	Marks:	80

Paper:1 Paper Name: Java Programming					
Unit	Course Content	Allotted to	Hours	Month	Date
I	JAVA language basics	Amitabh Sarma	12 Hrs	August to November – Blended mode	3 August - 26 November
II	Operators and Control Statements	Amitabh Sarma	15Hrs	August to November – Blended mode	3 August - 26 November
III	Classes and Methods	Amitabh Sarma	12Hrs	August to November – Blended mode	3 August - 26 November
IV	Inheritance	Shasankar Das	16 Hrs	August to November – Blended mode	3 August - 26 November
V	Practical	Amitabh Sarma	10 Hrs	August to November – Blended mode	3 August - 26 November

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Department:	Computer Science	Semester	V
Course:	Major	Paper No:	BCA-HC-5026
Credit:	6	Marks:	80

Paper:1I		Paper Name: Operating System			
Unit	Course Content	Allotted to	Hours	Month	Date
I	Introduction	Shasankar Das	14 Hrs	August to November – Blended mode	3 August - 26 November
II	Processes, Process Synchronization	Amitabh Sarma	15Hrs	August to November – Blended mode	3 August - 26 November
III	Scheduling , Deadlocks Memory management	Simanta Sarma	12Hrs	August to November – Blended mode	3 August - 26 November
IV	File system , I/O management	Shasankar Das	14Hrs	August to November – Blended mode	3 August - 26 November
V	Practical	Amitabh Sarma	10 Hrs	August to November – Blended mode	3 August - 26 November

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Department:	Computer Science	Semester	V
Course:	DSE	Paper No:	BCA-HE-5046
Credit:	6	Marks:	50

Paper :IV	Paper Name: Programming in Python				
Unit	Course Content	Allotted to	Hours	Month	Date
I	Planning the Computer Program	Amitabh Sarma	14 Hrs	August to November – Blended mode	3 August - 26 November
II	Techniques of Problem Solving	Amitabh Sarma	07 Hrs	August to November – Blended mode	3 August - 26 November
III	Overview of Programming	Amitabh Sarma	07 Hrs	August to November – Blended mode	3 August - 26 November
IV	Introduction to Python Creating Python Programs Iteration and Recursion	Shasankar Das	14Hrs	August to November – Blended mode	3 August - 26 November
V	Practical	Amitabh Sarma	10 Hrs	August to November – Blended mode	3 August - 26 November

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Department:	Computer Science	Semester	II
Course:	Major	Paper No:	BCA-HC-2016
Credit:	6	Marks:	80

Paper:1 Paper Name : Mathematics –I					
Unit	Course Content	Allotted to	Hours	Month	Date
I	Determinants and Matrices	Simanta Sarma	16Hrs	January-May	17 January-25 May
II	Complex Numbers	Simanta Sarma	15 Hrs	January-May	17 January-25 May
III	Limits and Derivatives	Amitabh Sarma	07 Hrs	January-May	17 January-25 May
IV	Calculus	Simanta Sarma	14Hrs	January-May	17 January-25 May

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Department:	Computer Science	Semester	II
Course:	Major	Paper No:	BCA-HC-2026
Credit:	6	Marks:	80

Paper:1I

Paper Name : Digital Logic Fundamentals

Unit	Course Content	Allotted to	Hours	Month	Date
I	Boolean Algebra and Logic Gates	Amitabh Sarma	16Hrs	January-May	17 January-20 May
II	Combinational Circuit	Amitabh Sarma	15 Hrs	January-May	17 January-20 May
III	Sequential Circuit	Amitabh Sarma	12 Hrs	January-May	17 January-20 May
IV	Counters Registers	Simanta Sarma	14Hrs	January-May	17 January-20 May
V	Practical	Amitabh Sarma	10 Hrs	August-November	1 August- 20 November

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Department:	Computer Science	Semester	II
Course:	GE	Paper No:	BCA-HG-2026
Credit:	6	Marks:	80

Paper:1II Paper Name :Introduction to Bio-Informatics					
Unit	Course Content	Allotted to	Hours	Month	Date
I	Introduction	Amitabh Sarma	10Hrs	January-May	17 January-20 May
II	Biological Databases	Amitabh Sarma	10Hrs	January-May	17 January-20 May
III	Molecular Phylogeny	Amitabh Sarma	7Hrs	January-May	17 January-20 May
IV	Biocomputing in Genomics and Proteomics	Shasankar Das	20 Hrs	January-May	17 January-20 May

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Department:	Computer Science	Semester	IV
Course:	Major	Paper No:	BCA-HC-4016
Credit:	6	Marks:	80

Paper:1 Paper Name : Computer Organization and Architecture					
Unit	Course Content	Allotted to	Hours	Feb-March	Date
I	Introduction	Shasankar Das	10 Hrs	January-May	17 January-20 May
II	Register Transfer Logic	Amitabh Sarma	10Hrs	January-May	17 January-20 May
III	Processor Logic Design	Simanta Sarma	10Hrs	January-May	17 January-20 May
IV	Control Logic Design	Shasankar Das	10 Hrs	January-May	17 January-20 May

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Department:	Computer Science	Semester	IV
Course:	Major	Paper No:	BCA-HC-4026
Credit:	6	Marks:	80

Paper:1I					
Paper Name : Mathematics-II					
Unit	Course Content	Allotted to	Hours	month	Date
I	Sets, Relations and Functions	Shasankar Das	6 Hrs	January-May	17 January-20 May
II	Graph theory	Amitabh Sarma	6 Hrs	January-May	17 January-20 May
III	Combinatorics	Simanta Sarma	12Hrs	January-May	17 January-20 May
IV	Matrices , Logic	Shasankar Das	12 Hrs	January-May	17 January-20 May

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Department:	Computer Science	Semester	IV
Course:	Major	Paper No:	BCA-HC-4036
Credit:	6	Marks:	80

Paper:1					
Paper Name : Object Oriented Programming in C++					
Unit	Course Content	Allotted to	Hours	Month	Month
I	Introduction to object oriented programming	Simanta Sarma	10Hrs	January-May	17 January-20 May
II	Classes and objects	Simanta Sarma	16Hrs	January-May	17 January-20 May
III	Function and operator overloading	Simanta Sarma	10 Hrs	January-May	17 January-20 May
IV	Inheritance	Shasankar Das	16Hrs	January-May	17 January-20 May
V	Practical	Amitabh Sarma	10 Hrs	January-May	17 January-20 May

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Department:	Computer Science	Semester	IV
Course:	SEC	Paper No:	BCA-SE-4034
Credit:	6	Marks:	80

Paper:1I					
Paper Name :Advanced Web Technology					
Unit	Course Content	Allotted to	Hours	Month	Date
I	Web Development Techniques	Simanta Sarma	12 Hrs	January-May	17 January-20 May
II	Current Trends in Web Technology	Simanta Sarma	22 Hrs	January-May	17 January-20 May
III	Practical	Amitabh Sarma	10 Hrs	January-May	17 January-20 May

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Department:	Computer Science	Semester	IV
Course:	GE	Paper No:	BCA-HG-4026
Credit:	6	Marks:	80

Paper:1II					
Paper Name INFORMATION SECURITY AND CYBER LAWS					
Unit	Course Content	Allotted to	Hours	Month	Date
I	Course Introduction	Shasankar Das	12 Hrs	January-May	17 January-20 May
II	Digital Crime	Shasankar Das	12 Hrs	January-May	17 January-20 May
III	Information Gathering Techniques	Simanta Sarma	12Hrs	January-May	17 January-20 May
IV	Risk Analysis and Threat	Shasankar Das	12Hrs	January-May	17 January-20 May

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Department:	Computer Science	Semester	VI
Course:	Major	Paper No:	BCA-HC-6016
Credit:	6	Marks:	80

Paper:I
Paper Name : System Administration using Linux

Unit	Course Content	Allotted to	Hours	Month	Date
I	Introduction	Shasankar Das	12 Hrs	January-May	17 January-20 May
II	Linux file system	Amitabh Sarma	15 Hrs	January-May	17 January-20 May
III	Basic Linux Commands	Shasankar Das	12Hrs	January-May	17 January-20 May
IV	Process Creation	Simanta Sarma	12Hrs	January-May	17 January-20 May
V	Practical	Amitabh Sarma	10 Hrs	January-May	17 January-20 May

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Department:	Computer Science	Semester	VI
Course:	Major	Paper No:	BCA-HC-6026
Credit:	6	Marks:	80

Paper:1I					
Paper Name : Computer Networks					
Unit	Course Content	Allotted to	Marks	Hours	Month
I	Physical Layer	Shasankar Das	10	January-May	17 January-20 May
II	Digital Transmission	Shasankar Das	10	January-May	17 January-20 May
III	Data Link Layer Network Layer Transport Layer	Shasankar Das	10	January-May	17 January-20 May
IV	Application layer & Network Security	Simanta Sarma	10	January-May	17 January-20 May
V	Practical	Amitabh Sarma	10 Hrs	January-May	17 January-20 May

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Department:	Political Science	Semester	VI
Course:	Major	Paper No:	BCA-HE-6036
Credit:	6	Marks:	50

Paper:III Paper Name :Multimedia and Applications					
Unit	Course Content	Allotted to	Marks	Month	Month
I	Multimedia	Shasankar Das	10	January-May	17 January-20 May
II	Text Sound	Shasankar Das	10	January-May	17 January-20 May
III	Images Internet and Multimedia	Shasankar Das	10	January-May	17 January-20 May
IV	Making Multimedia	Simanta Sarma	10	January-May	17 January-20 May
V	Practical	Amitabh Sarma	10 Hrs	January-May	17 January-20 May

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Department:	Computer Science	Semester	VI
Course:	Major	Paper No:	BCA-HE-6066
Credit:	6	Marks:	100

Paper:1V					
Paper Name : ARTIFICIAL INTELLIGENCE					
Unit	Course Content	Allotted to	Hours	Feb-March	Date
I	Introduction	Simanta Sarma	20Hrs	January-May	17 January-20 May
II	Problem Solving and Searching Techniques	Simanta Sarma	10Hrs	January-May	17 January-20 May
III	Knowledge Representation	Simanta Sarma	10Hrs	January-May	17 January-20 May
IV	Dealing with Uncertainty and Inconsistencies	Amitabh Sarma	10 Hrs	January-May	17 January-20 May

Simanta Sarma

HOD

Department of Computer Science