TEACHING PLAN
DEPARTMENT OF COMPUTER SCIENCE
BACHELOR OF COMPUTER APPLICATION
SBMS COLLEGE, SUALKUCHI
Session: 2018-2019

Department:	Computer Science	Semester	I
Course:	Major	Paper No:	1.1
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-November	1 August- 20 November
II	Decision Making and Branching Statement	Simanta Sarma	16 Hrs	August-November	1 August- 20 November
III	Arrays Functions & Structures and Unions, Pointers	Amitabh Sarma	20 Hrs	August-November	1 August- 20 November
IV	File Management in C	Dipranjan Baishnab	10 Hrs	August-November	1 August- 20 November
V	Practical	Amitabh Sarma	10 Hrs	August-November	1 August- 20 November

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Department:	Computer Science	Semester	I
Course:	Major	Paper No:	1.2
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	Dipranjan Baishnab	15Hrs	August-November	1 August- 20 November
II	Hard Disk Drive: Optical Media	Simanta Sarma	10 Hrs	August-November	1 August- 20 November
III	Processor	Amitabh Sarma	14 Hrs	August-November	1 August- 20 November
IV	SMPS	Dipranjan Baishnab	07Hrs	August-November	1 August- 20 November
V	Practical	Simanta Sarma	10 Hrs	August-November	1 August- 20 November

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Department:	Computer Science	Semester	I
Course:	GE	Paper No:	1.3
Credit:	6	Marks:	50

Paper:III

Paper Name: OFFICE AUTOMATION

Unit	Course Content	Allotted to	Hours	Month	Month
I	Word Processing	Dipranjan Baishnab	7 Hrs	August-November	1 August- 20 November
II	Spreadsheet	Simanta Sarma	16 Hrs	August-November	1 August- 20 November
III	Presentation Tools	Amitabh Sarma	20 Hrs	August-November	1 August- 20 November
IV	DTP Software	Dipranjan Baishnab	10 hrs	August-November	1 August- 20 November
V	Practical	Amitabh Sarma	10 Hrs	August-November	1 August- 20 November

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Department:	Computer Science	Semester	III
Course:	Major	Paper No:	1.1
Credit:	6	Marks:	80

Paper:1					
Paper Name: Software Engineering					
Unit	Course Content	Allotted to	Hours	Months	Date
I	Introduction	Simanta Sarma	16Hrs	August-November	1 August- 20 November
II	Software Project Planning	Simanta Sarma	12 Hrs	August-November	1 August- 20 November
III	Software Design	Amitabh Sarma	07 Hrs	August-November	1 August- 20 November
IV	Software Testing and Maintenance	Dipranjan Baishnab	16Hrs	August-November	1 August- 20 November
V	Practical	Amitabh Sarma	10 Hrs	August-November	1 August- 20 November

Department:	Computer Science	Semester	III
Course:	Major	Paper No:	1.2
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-November	1 August- 20 November
II	Linked Structure	Amitabh Sarma	10 Hrs	August-November	1 August- 20 November
III	Stacks and Queues Binary Trees	Amitabh Sarma	12 Hrs	August-November	1 August- 20 November
IV	Searching Sorting	Amitabh Sarma	16Hrs	August-November	1 August- 20 November
V	Practical	Amitabh Sarma	10 Hrs	August-November	1 August- 20 November

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Department:	Computer Science	Semester	III
Course:	Major	Paper No:	1.3
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-November	1 August- 20 November
II	Overview of Database Management System	Simanta Sarma	10 Hrs	August-November	1 August- 20 November
III	Relational Models	Dipranjan Baishnab	10 Hrs	August-November	1 August- 20 November
IV	Database Design	Amitabh Sarma	12 6Hrs	August-November	1 August- 20 November
V	Practical	Amitabh Sarma	10 Hrs	August-November	1 August- 20 November

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Department:	Computer Science	Semester	III
Course:	SEC	Paper No:	1.4
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-November	1 August-20 November
II	Inside the firewall AND Linking database to the Web	Dipranjan Baishnab	10 Hrs	August-November	1 August-20 November
III	HTML editors and tools	Dipranjan Baishnab	10 Hrs	August-November	1 August-20 November
IV	HTML editors and tools	Dipranjan Baishnab	10 Hrs	August-November	1 August-20 November
V	Practical	Dipranjan Baishnab	10 Hrs	August-November	1 August-20 November

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Department:	Computer Science	Semester	III
Course:	GE	Paper No:	1.5
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-November	1 August- 20 November
II	Gupta Period	Dipranjan Baishnab	10 Hrs	August-November	1 August- 20 November
III	Foundation of Muslim rule in India	Simanta Sarma	12 Hrs	August-November	1 August- 20 November
IV	Arrival of Europeans	Dipranjan Baishnab	10Hrs	August-November	1 August- 20 November

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Department:	Computer Science	Semester	V
Course:	Major	Paper No:	1.1
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-November	1 August-20 November
II	Operators and Control Statements	Amitabh Sarma	15Hrs	August-November	1 August-20 November
III	Classes and Methods	Amitabh Sarma	12Hrs	August-November	1 August-20 November
IV	Inheritance	Dipranjan Baishnab	16 Hrs	August-November	1 August-20 November
V	Practical	Amitabh Sarma	10 Hrs	August-November	1 August-20 November

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Department:	Computer Science	Semester	V
Course:	Major	Paper No:	1.2
Credit:	6	Marks:	80

Paper:1I		Paper Name: Operating System			
Unit	Course Content	Allotted to	Hours	Month	Date
I	Introduction	Dipranjan Baishnab	14 Hrs	August-November	1 August-20 November
II	Processes, Process Synchronization	Amitabh Sarma	15Hrs	August-November	1 August-20 November
III	Scheduling , Deadlocks Memory management	Simanta Sarma	12Hrs	August-November	1 August-20 November
IV	File system , I/O management	Dipranjan Baishnab	14Hrs	August-November	1 August-20 November
V	Practical	Simanta Sarma	10 Hrs	August-November	1 August-20 November

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Department:	Computer Science	Semester	V
Course:	DSE	Paper No:	1.4
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-November	1 August-20 November
II	Techniques of Problem Solving	Amitabh Sarma	07 Hrs	August-November	1 August-20 November
III	Overview of Programming	Amitabh Sarma	07 Hrs	August-November	1 August-20 November
IV	Introduction to Python Creating Python Programs Iteration and Recursion	Dipranjan Baishnab	14Hrs	August-November	1 August-20 November
V	Practical	Amitabh Sarma	10 Hrs	August-November	1 August-20 November

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Department:	Computer Science	Semester	II
Course:	Major	Paper No:	1.1
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:	1.2	
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	January-May	17 January-20 May

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Department:	Computer Science	Semester	II
Course:	GE	Paper No:	1.3
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	Dipranjan Baishnab	20 Hrs	January-May	17 January-20 May

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Department:	Computer Science	Semester	IV
Course:	Major	Paper No:	1.1
Credit:	6	Marks:	80

Paper:1					
Paper Name : Computer Organization and Architecture					
Unit	Course Content	Allotted to	Hours	Feb-March	Date
I	Introduction	Dipranjan Baishnab	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	Dipranjan Baishnab	10 Hrs	January-May	17 January-20 May

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Department:	Computer Science	Semester	IV
Course:	Major	Paper No:	1.2
Credit:	6	Marks:	80

Paper:1I					
Paper Name : Mathematics-II					
Unit	Course Content	Allotted to	Hours	month	Date
I	Sets, Relations and Functions	Dipranjan Baishnab	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	Dipranjan Baishnab	12 Hrs	January-May	17 January-20 May

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Department:	Computer Science	Semester	IV
Course:	Major	Paper No:	1.1
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	Dipranjan Baishnab	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:	1.2
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
V	Practical	Amitabh Sarma	10 Hrs	January-May	17 January-20 May

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Department:	Computer Science	Semester	IV
Course:	GE	Paper No:	1.3
Credit:	6	Marks:	80

Paper:1II Paper Name INFORMATION SECURITY AND CYBER LAWS					
Unit	Course Content	Allotted to	Hours	Month	Date
I	Course Introduction	Dipranjan Baishnab	12 Hrs	January-May	17 January-20 May
II	Digital Crime	Dipranjan Baishnab	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	Dipranjan Baishnab	12Hrs	January-May	17 January-20 May

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Department:	Computer Science	Semester	VI
Course:	Major	Paper No:	1.1
Credit:	6	Marks:	80

Paper:I

Paper Name : System Administration using Linux

Unit	Course Content	Allotted to	Hours	Month	Date
I	Introduction	Dipranjan Baishnab	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	Dipranjan Baishnab	12Hrs	January-May	17 January-20 May
IV	Process Creation	Simanta Sarma	12Hrs	January-May	17 January-20 May
V	Practical	Simanta Sarma	10 Hrs	January-May	17 January-20 May

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Department:	Computer Science	Semester	VI
Course:	Major	Paper No:	1.2
Credit:	6	Marks:	80

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

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Department:	Political Science	Semester	VI
Course:	SEC	Paper No:	1.3
Credit:	6	Marks:	50

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

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Department:	Computer Science	Semester	VI
Course:	Major	Paper No:	1.4
Credit:	6	Marks:	80

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

Simanta Sarma

HOD

Department of Computer Science