BCA 2ND YEAR IV SEM

Subject name	Name of unit	Time Required to complete	Subject teacher	Information about subject	Session	Sem
Data Structure & File Organisation	Unit 1Introduction Arrays Unit 2 Linked Lists Stack Queue Unit 3 Trees Graphs Searching & Sorting Unit 4 Introduction to Files & Concept of Records Direct File Organisation	6 Hours(8 Lectures) 13 Hours(17 Lectures) 13 Hours(17 Lectures) 6 Hours(8 Lectures)		Data structures and file organization refer to the methods of organizing the data in a database. They primarily deal with physical storage of data which assumes significance in retrieving, storing and reorganizing data in a database.	2018-19	IV
Information System Analysis & Design	Unit 1Definition of the system Role of a systems Analyst Unit 2 Feasibility studies Feasibility Analysis Unit 3 Tools of SSAD System design Unit 4Development methodologies Testing Case Studies	7 Hours(9 Lectures) 10 Hours 30 min(14 Lectures) 7 Hours 30 min(10 Lectures) 13 Hours(17 Lectures)		System analysis is conducted for the purpose of studying a system or its parts in order to identify its objectives. It is a problem solving technique that improves the system and ensures that all the components of the system work efficiently to accomplish their purpose.	2018-19	IV
Introduction	Unit 1	6 Hours(8		Software Engineering is	2018-19	IV

to Software Engineering	Software project planning Unit 2 Cost Estimation Techniques Software Project Scheduling Unit 3 Requirement analysis Design representations		a systematic approach to the design, development, operation, and maintenance of a software system.			
	Unit 4 Strategies Product assurance	12 Hours(15 Lectures)				
Object Oriented Programming using C++	Unit 1 Introduction Operators in c++	6 Hours(8 Lectures)		Object oriented programming aims to implement real world entities like inheritance,	2018-19	IV
	Unit 2 Classes and Object Constructors and Destructors	7 Hours 30 min(10 Lectures)	_	to bind together the data and the functions that operates on them		
	Unit 3 Operator Overloading Inheritance, Pointers virtual functions and Polymorphism	9 Hours(12 Lectures)		code can access this data except that function		
	Unit 4Managing Console I/O Operations and Working with files File Handling	7 Hours 30 min(10 Lectures)				

BCA 2ND YEAR III SEM

Subject name	Name of unit	Time	Subjec	Information about	Sessio	Se
		Require	t	subject	n	m
		d to	teache			
		complet	r			
		e		* 1 · 1		
Introduction	Unit 1	6		It is a programmable,	2018-	111
to	Introduction to	Hours(8		driven, register-based	19	
or	wicroprocessors	Lectures		electronic device that		
01	Linit 2)		reads binary		
	8085	0 Hours(8		Instructions from a storage device called		
	Microprocessor	Lectures		memory, accepts binary		
)		data as input and		
	Unit 3	, 12		processes data		
	Programming in 8085	Hours(1		according to those		
	Interrupts	6		provides results as		
		Lectures		output.		
)				
	Unit 4	13				
	I/O Interface	Hours				
	Memory	30				
		min(18				
		Lectures				
Numerical	Linit 1) 7 hours		Numerical	2018-	111
Methods &	Roots of non-linear	30		Analysis with Algorithms	19	
Algorithms	equations	min(10		and Programming is the	10	
0	Direct solution of	Lectures		first comprehensive		
	linear equation)		textbook to provide		
				detailed coverage		
	Unit 2	6		of numerical methods, their algorithms and		
	Interpolation	Hours(8		corresponding computer		
		Lectures		programs. It presents		
)		many techniques for the		
	Unit 3	9		efficient numerical		
	Numerical Integration	Hours(1		solution of problems in		
	Numerical	Z		science and engineering.		
	Differentiation	Lectures				
	Unit 4	, 15	1			
	Numerical solution	Hours(2				
	of Differential	0				
	equation	Lectures				
	Curve Fitting B-)				
	Splines					

Computer	Unit 1	6	The architecture of	2018-	
Organisation	Computer	Hours(8	a computer system can be	19	
&	Structures	Lectures	considered as a catalogue		
Architecture)	of tools or attributes that		
	Unit 2	16	are visible to the user such		
	Internal Memory	Hours	as instruction sets, number		
	External Memory	30	of bits used for data,		
		min(22	addressing techniques,		
		Lectures	etc.		
)			
	Unit 3	, 7 Hours			
	Input/output	30			
		min(10			
		Lectures			
)			
	Unit 4	7 Hours			
	Advance	30			
	Architecture	min(10			
		Lectures			
)			
File Structure	Unit 1	7 Hours	A database consist of a	2018-	111
& Database		30	huge amount of data. The	19	
Management		min(10	data is grouped within a	10	
System		Lectures	table in RDBMS, and		
-,)	each table have related		
		/	records A user can see		
	Unit 2	9	records. A user can see		
	Unit 2	9 Hours(1	that the data is stored in		
	Unit 2	9 Hours(1 2	that the data is stored in form of tables, but in		
	Unit 2	9 Hours(1 2 Lectures	that the data is stored in form of tables, but in actual this huge amount of		
	Unit 2	9 Hours(1 2 Lectures)	that the data is stored in form of tables, but in actual this huge amount of data is stored in physical		
	Unit 2 Unit 3	9 Hours(1 2 Lectures) 9	that the data is stored in form of tables, but in actual this huge amount of data is stored in physical memory in form of files.		
	Unit 2 Unit 3	9 Hours(1 2 Lectures) 9 Hours(1	that the data is stored in form of tables, but in actual this huge amount of data is stored in physical memory in form of files.		
	Unit 2 Unit 3	9 Hours(1 2 Lectures) 9 Hours(1 2	that the data is stored in form of tables, but in actual this huge amount of data is stored in physical memory in form of files.		
	Unit 2 Unit 3	9 Hours(1 2 Lectures) 9 Hours(1 2 Lectures	that the data is stored in form of tables, but in actual this huge amount of data is stored in physical memory in form of files.		
	Unit 2 Unit 3	9 Hours(1 2 Lectures) 9 Hours(1 2 Lectures)	that the data is stored in form of tables, but in actual this huge amount of data is stored in physical memory in form of files.		
	Unit 2 Unit 3 Unit 4	9 Hours(1 2 Lectures) 9 Hours(1 2 Lectures) 12	that the data is stored in form of tables, but in actual this huge amount of data is stored in physical memory in form of files.		
	Unit 2 Unit 3 Unit 4	9 Hours(1 2 Lectures) 9 Hours(1 2 Lectures) 12 Hours(1	that the data is stored in form of tables, but in actual this huge amount of data is stored in physical memory in form of files.		
	Unit 2 Unit 3 Unit 4	9 Hours(1 2 Lectures) 9 Hours(1 2 Lectures) 12 Hours(1 6	that the data is stored in form of tables, but in actual this huge amount of data is stored in physical memory in form of files.		
	Unit 2 Unit 3 Unit 4	9 Hours(1 2 Lectures) 9 Hours(1 2 Lectures) 12 Hours(1 6 Lectures	that the data is stored in form of tables, but in actual this huge amount of data is stored in physical memory in form of files.		