

GOVERNMENT DEGREE COLLEGE

KHAIRATABAD, HYDERABAD -500004

DEPARTMENT OF COMPUTER SCIENCE AND
APPLICATIONS



ANNUAL CURRICULAM PLAN

2018-23

Department of Computer Applications
Annual Curricular Plan for BSC (MSCS) I year for the year 2018-2019

S. No.	Month	Week	Hours Available	Syllabus topic	Additional Input/ Value Addition provided	Curricular Activity			Co-curricular Activity		
						Activity conducted	Hours Allotted	Whether Conducted	Activity conducted	Hours Allotted	Whether Conducted
1	August	1 st	-								
		2 nd	6 hrs	Computer Fundamentals							
		3 rd	4 hrs	Program Fundamentals							
		4 th	4 hrs	Algorithms		Internal Exams I	1 hr	yes	01/09/18		
		5 th	7 hrs	Programming Concept							
2	September	2 nd	4 hrs	Programming in C							
		3 rd	8 hrs	Statements							
		4 th	7 hrs	Expressions		Assignment given	1 Week	yes	25/09/2018		
		5 th	9 hrs	Input & Output Functions							
		1 st	7 hrs	Arrays and Strings		Internal Exams II	1 hr	yes	04/10/18		
3	October	4 th	8 hrs	Functions							
		5 th	2 hrs	Types of Function							
		1 st	4 hrs	Pointers and Unions							
		2 nd	7 hrs	Structures							
		5 th		Practical Exams		14/11/18 to 19/11/18					
4	November	1 st	4 hrs	Structures							
2 nd		7 hrs	Practical Exams								
5	January	1 st	6 hrs	Introduction to C++							

		2 nd	6 hrs	Tokens and Data types									
		3 rd	6 hrs	Pointers and Arrays									
		4 th	4 hrs	Searching									
		5 th	4 hrs	Sorting									
6	February	1 st	4hrs	OOPS Concepts									
		2 nd	8 hrs	Class And Inline functions									
		3 rd	9 hrs	Inline functions									
		4 th	6 hrs	Function Overloading									
		5 th	3 hrs	Static Members									
7	March	1 st	4 hrs	Operator overloading									
		2 nd	4 hrs	Friend classes									
		3 rd	7 hrs	Inheritance									
		4 th	8 hrs	Polymorphism									
		5 th	8 hrs	Dynamic Binding									
8	April	1 st	4 hrs	C++ Streams									
		2 nd	5 hrs	Exception									
		3 rd	2 hrs	Exception Handling									
		4 th	8 hrs	Templates									
		5 th	2 hrs	Working Examples									

Department of Computer Science & Applications
Annual Curricular Plan for B.SC (MPCS) III year for the year 2018-2019

S. No.	Month	Week	Hours Available	Syllabus topic	Additional Input/ Value Addition provided	Curricular Activity			Co-curricular Activity		
						Activity conducted	Hours Allotted	Whether Conducted	Activity conducted	Hours Allotted	Whether Conducted
1	Aug	2 nd	3 hrs	Operating System Structures							
		3 rd	3 hrs	Operating System Structures							
2	Sept	4 th	4 hrs	Process Introduction		Internal Exams I	1 hr	yes	01/09/18		
		5 th	4 hrs	Process Concept							
		2 nd	3 hrs	Process Management							
		3 rd	4 hrs	Process Scheduling							
		4 th	4 hrs	Semaphores							
3	Oct	5 th	5 hrs	Monitors		Assignme nt Given	1 Week	yes	06/10/2018		
		1 st	7 hrs	Scheduling Alogritms							
		2 nd	-								
		3 rd	-			Internal Exams II	1 hr	yes	04/10/18		
		4 th	13 hrs	Deadlocks And Avoidance							
5 th	7 hrs	Deadlock Prevention									
4	Nov	1 st	5 hrs	Disk Structures							
		2 nd	7 hrs	Disk Scheduling							

		5 th		Algorithms Practical Exams		14/11/18 to 19/11/18					
5	January	1 st	1 hr	Introduction to HTML							
		2 nd	4 hrs	Mark up languages							
		3 rd	1 hr	Structure of HTML							
		4 th	5 hrs	Presentational Elements							
		5 th	6 hrs	Phrase Elements							
8	February	1 st	-	-							
		2 nd	4 hrs	Links & Navigation							
		3 rd	5 hrs	Images and videos							
		4 th	5 hrs	Tables							
		5 th	6 hrs	Forms and frames							
9	March	1 st	-								
		2 nd	4 hrs	Cascading Style sheets							
		3 rd	2 hrs	CSS Properties							
		4 th	4 hrs	Page Layouts							
		5 th	5 hrs	Design Issues	Assignme nt Given	1 Week	Yes	29/03/2019			
10	April	1 st	5 hrs	Java Script							
		2 nd	2 hrs	Working with Java Script							
		3 rd	2 hrs	Functions in Java Script							
		4 th	5 hrs	Control Statements							
		5 th	1 hr	Built In Objects							

Department of Computer Applications
Annual Curricular Plan for BCOM (CA) I year for the year 2018-2019

S. No.	Month	Week	Hrs	Syllabus topic	Additional Input/ Value Addition provided	Curricular Activity			Co-curricular Activity		
						Activity conducted	Hours Allotted	Whether Conducted	Activity conducted	Hours Allotted	Whether Conducted
1	August	2 nd	4 hrs	Virus and its effects							
		3 rd	5 hrs	Hackers							
		4 th	6 hrs	Cryptography							
		5 th	6 hrs	Types Of Cryptography		Internal Exams I	1 hr	yes	1/09/18		
2	September	2 nd	5 hrs	Word Processing							
		3 rd	6 hrs	Menus							
		4 th	7 hrs	Toolbars							
		5 th	8 hrs	Word Processor							
3	October	1 st	8 hrs	Mail Merge		Internal Exams II	1 hr	yes	04/10/18		
		4 th	11 hrs	Macros							
		5 th	6 hrs	Graphs and Charts							
4	November	1 st	6 hrs	Functions in Excel							
		2 nd	8 hrs	Consolidations and filtering							
		5 th		Practical Exams		14/11/18 to 19/11/18					
5	January	1 st	5 hrs	DBMS, File based System							
		2 nd	6 hrs	Data models							

		3 rd	5 hrs	Types of Keys															
		4 th	7 hrs	Relational Constraints															
		5 th	6 hrs	Relational Model															
6	Februar y	1 st	2 hrs	ER Model															
		2 nd	6 hrs	ER Diagram															
		3 rd	6 hrs	Normalization															
		4 th	4 hrs	1 st ,2 nd Normal forms															
		5 th	4 hrs	Boy codd Normal form															
7	March	1 st	2 hrs	File Organization															
		2 nd	4 hrs	SQL Commands															
		3 rd	4 hrs	DDI and DML Commands															
		4 th	5 hrs	TCL Commands															
		5 th	7 hrs	DCL Commands															
8	April	1 st	5 hrs	Transactions															
		2 nd	3 hrs	Locking Protocols															
		3 rd	3 hrs	Distributed Database															
		4 th	7 hrs	Client-Server Database															
		5 th	1 hr	Data Warehouse															

Department of Computer Applications
Annual Curricular Plan for BA (CA) I year for the year 2018-2019

S. No.	Month	Week	Hours Available	Syllabus topic	Additional Input/ Value Addition provided	Curricular Activity			Co-curricular Activity		
						Activity conducted	Hours Allotted	Whether Conducted	Activity conducted	Hours Allotted	Whether Conducted
1	August	2 nd	3 hrs	Computer Fundamentals							
		3 rd	3 hrs	Programs							
		4 th	3 hrs	Algorithms							
		5 th	3 hrs	Classification of Computers		Internal Exams I	1 hr	yes	1/09/18		



Department of Computer Science & Applications
Annual Curricular Plan for B.SC (MPCS) III year for the year 2019-2020

S. No.	Month	Week	Hours Available	Syllabus topic	Additional Input/ Value Addition provided	Curricular Activity			Co-curricular Activity		
						Activity conducted	Hours Allotted	Whether Conducted	Activity conducted	Hours Allotted	Whether Conducted
1	August	5 th	2 hrs	Introduction and Structure of operating system		Internal Exams I	1 hr	yes	29.08.19		
2	October	2 nd	-								
		4 th	4 hrs	Process Management							
		5 th	3 hrs	Process Synchronization		Internal Exams II	1 hr	yes	31.10.19		
3	November	1 st	1 hrs	CPU Scheduling							
		2 nd	4 hrs	Deadlocks							
		3 rd	2 hrs	Main memory and Disk Scheduling							
		4 th		Practicals							
4	December	3 rd	1 hr	Introduction to HTML and XHTML							
		4 th	3 hrs	Lists In HTML							
		5 th	3 hrs	Links and Navigation							
5.	January	1 st	1 hr	Images, Audio and Video							
		2 nd	5 hrs	Tables and Forms in HTML							
		3 rd	-	-							
		4 th	5 hrs	Frames in HTML		Online IIT MOOCS	1 hr	yes	25.01.202		



		5 th	4 hrs	Cascading Style sheets		Exam			0		
6.	February	1 st	-	-							
		2 nd	5 hrs	CSS Properties							
		3 rd	5 hrs	Links and Lists in CSS							
		4 th	4 hrs	Tables in CSS							
		5 th	1 hr	Page Layout		Internal Exams I	1 hr	yes	24.02.20		
7.	March	1 st	8 hrs	Design Issues in CSS							
		2 nd	7 hrs	Learning Java Script							
8.	April	3 rd	3hrs	Control Statements in JS							
		4 th	3 hrs	Functions in JS							
		5 th	4 hrs	Events and Objects							
9.	May	1 st	1 hr	Form Validation							
		2 nd	5 hrs	Java Script Libraries							
		3 rd	3 hrs	Putting Site on Web							

		5 th	4 hrs	Cascading Style sheets		Exam			0		
6.	February	1 st	-	-							
		2 nd	5 hrs	CSS Properties							
		3 rd	5 hrs	Links and Lists in CSS							
		4 th	4 hrs	Tables in CSS							
		5 th	1 hr	Page Layout		Internal Exams I	1 hr	yes	24.02.20		
7.	March	1 st	8 hrs	Design Issues in CSS							
		2 nd	7 hrs	Learning Java Script							
8.	April	3 rd	3hrs	Control Statements in JS							
		4 th	3 hrs	Functions in JS							
		5 th	4 hrs	Events and Objects							
9.	May	1 st	1 hr	Form Validation							
		2 nd	5 hrs	Java Script Libraries							
		3 rd	3 hrs	Putting Site on Web							

Department of Computer Science & Applications
Annual Curricular Plan for B.SC -II (MPCS) for the year 2019-2020

S. No.	Month	Week	Hours Available	Syllabus topic	Additional Input/ Value Addition provided	Curricular Activity			Co-curricular Activity		
						Activity conducted	Hours Allotted	Whether Conducted	Activity conducted	Hours Allotted	Whether Conducted
1	August	5 th	7 hrs	Introduction and Types of Data Structures		Internal Exams I	1 hr	yes	29.08.19		
2	September	2 nd	1 hr	Algorithms and Pseudo Code							
		3 rd	5 hrs	Linear Data Structures and Arrays							
		4 th	5 hrs	Stacks and its Applications							
		5 th	-	-							
3	October	2 nd	3 hrs	Queues and its Applications							
		4 th	8 hrs	Linked lists and its types							
		5 th	3 hrs	Trees and Application of Binary Trees		Internal Exams II	1 hr	yes	31.10.19		
4	November	1 st	4 hrs	Graphs and there Traversal Techniques							
		2 nd	7 hrs	Searching and Sorting							
		3 rd	1 hr	Heaps							
		4 th	-	Practicals							
5	December	3 rd	4 hrs	Introduction and							



		4 th	3 hrs	Database Approach						
				Database Languages						
		5 th	6 hrs	Relational Model						
6	January	1 st	5 hrs	Relational Algebra						
		2 nd	6 hrs	SQL and Data Manipulation						
		3 rd	4 hrs	Referential Integrity						
		4 th	8 hrs	Views and Indexes	Online IIT MOOCS Exam	1 hr	yes	25.01.2020		
		5 th	5 hrs	Advanced SQL						
7.	February	1 st	2 hrs	Transactions and Privileges to other Users						
		2 nd	8 hrs	ER-Model						
		3 rd	8 hrs	Specialization and Generalization						
		4 th	5 hrs	Normalization	Internal Exams I	1 hr	yes	24.02.20		
		5 th	5 hrs	SQL Query Language	Quiz Competition	3 hr	yes	04.03.20		
8.	March	1 st	9 hrs	SET and JOIN Operations						
		2 nd	8 hrs	Aggregate Functions						
		3 rd	1 hr	Transactions						
9.	April	4 th	4 hrs	Concurrency Control						
		5 th	3 hrs	Locking and Time stamp Methods						
10.	May	1 st	1 hr	Deadlocks and Recovery						
		2 nd	4 hrs	Database Security						
		3 rd	4 hrs	RAID Structures						

Department of Computer Science & Applications
Annual Curricular Plan for BCOM (CA) II year for the year 2019-2020

S. No.	Month	Week	Hrs	Syllabus topic	Additional Input/ Value Addition provided	Curricular Activity			Co-curricular Activity		
						Activity conducted	Hours Allotted	Whether Conducted	Activity conducted	Hours Allotted	Whether Conducted
1	August	5 th	5 hrs	Types Of Programming Languages		Internal Exams I	1 hr	yes	29.08.19		
2	September	2 nd	1 hr	Basic Structure of C Language							
		3 rd	3 hrs	Pre Processors in C Language							
		4 th	4 hrs	Types of I/O Operations							
		5 th	-	-							
3	October	2 nd	2 hrs	Tokens in C							
		4 th	5 hrs	Storage Classes							
		5 th	4 hrs	Operators in C							
4	November	1 st	1 hr	Control Statements		Internal Exams II	1 hr	yes	31.10.19		
		2 nd	5 hrs	Arrays and Strings							
		3 rd	1 hr	Functions in C							
		4 th		Practicals							
5	December	3 rd	1 hr	OOPs Concepts and Benefits							

		4 th	1 hr	Structure of C++							
		5 th	2 hrs	Tokens and Operators in C++							
6	January	1 st	3 hrs	Functions in C++							
		2 nd	5 hrs	Encapsulation and Abstraction							
		3 rd	2 hrs	Objects and Classes in C++							
		4 th	5 hrs	Constructors and Destructors		Online IIT MOOCS Exam	1 hr	yes	25.01.2020		
		5 th	4 hrs	Types of Constructors							
7.	February	1 st	1 hr	C++ Garbage Collection							
		2 nd	5 hrs	Dynamic Memory Allocation							
		3 rd	5 hrs	Function and Operator Overloading							
		4 th	4 hrs	Inheritance and Its Types							
		5 th	3 hrs	Polymorphism and Virtual Classes		Internal Exams I	1 hr	yes	24.02.20		
8.	March	1 st	6 hrs	Stream Classes		Quiz Competition	3 hr	yes	04.03.20		
		2 nd	5 hrs	Console I/O Operations							
9.	April	3 rd	2 hrs	Manipulators							
		4 th	4 hrs	Exceptions in C++							
		5 th	3 hrs	Exceptions with Arguments							
10.	May	1 st	2 hrs	Data Structures Introduction							
		2 nd	4 hrs	Stacks and Queues							
		3 rd	4 hrs	Linked Lists							



Department of Computer Science & Applications
Annual Curricular Plan for BCOM -I (CA) for the year 2019-2020

S. No.	Month	Week	Hours Available	Syllabus topic	Additional Input/ Value Addition provided	Curricular Activity			Co-curricular Activity		
						Activity conducted	Hours Allotted	Whether Conducted	Activity conducted	Hours Allotted	Whether Conducted
1	August	5 th	5 hrs	Definition and Characteristics of Computer							
2	September	2 nd	1 hr	Generations of Computers							
		3 rd	3 hrs	Input Devices							
		4 th	4 hrs	Output Devices							
3	October	5 th	-	-							
		2 nd	2 hrs	Number Systems							
		4 th	6 hrs	Primary & Secondary storage							
4	November	5 th	4 hrs	Softwares and its Types		Internal Exams II	1 hr	yes	31.10.19		
		1 st	2 hrs	Functions of Operating System							
		2 nd	6 hrs	Networking Devices							
5	December	3 rd	1 hr	Type Of Networks							
		4 th		Practicals							
		3 rd	2 hrs	Basic Structure of C language							
		4 th	2 hrs	Pre Processors and Data Types in C							
		5 th	2 hrs	Tokens and Operators							



6	January	1 st	3 hrs	Control Statements						
		2 nd	6 hrs	Loop Statements and Jump Statements						
		3 rd	2 hrs	Function in C						
		4 th	6 hrs	Arrays and Pointers in C Language	Online IIT MOOCS Exam	1 hr	yes	25.01.2020		
		5 th	5 hrs	Types of Arrays						
7.	February	1 st	1 hr	Strings in C						
		2 nd	6 hrs	Pointers in C Language						
		3 rd	6 hrs	Structures in C Language						
		4 th	5 hrs	Unions and Enumarated Data type						
		5 th	3 hrs	Introduction to OOPs Concepts	Internal Exams I	1 hr	yes	24.02.20		
8.	March	1 st	6 hrs	Structure of C++ Program	Quiz Competiti on	3 hr	yes	04.03.20		
		2 nd	5 hrs	Storage Classes in C++						
9.	April	3 rd	3hrs	Differences Between C and C++						
		4 th	4 hrs	Member Functions						
		5 th	2 hrs	Classes and Objects						
10.	May	1 st	2 hrs	Inheritance & Its Types						
		2 nd	5 hrs	Polymorphism	Assignme nt Given	1 Week	Yes	08.05.20		
		3 rd	4 hrs	Encapsulation and Abstracion						

Department of Computer Science & Applications
Annual Curricular Plan for B.SC (MPCS) III year for the year 2020-2021

S. No.	Month	Week	Hours Available	Syllabus topic	Additional Input/ Value Addition provided	Curricular Activity			Co-curricular Activity		
						Activity conducted	Hours Allotted	Whether Conducted	Activity conducted	Hours Allotted	Whether Conducted
1	February	3 rd	3 hrs	Operating System Structure							
		4 th	7 hrs	Process Management							
2	March	1 st	6 hrs	Process Synchronization							
		2 nd	4 hrs	CPU Scheduling							
		3 rd	3 hrs	Deadlocks							
		4 th	3 hrs	Main Memory & Virtual Memory							
		5 th	4 hrs	File Systems							
3	April	1 st	-								
		2 nd	4 hrs	Links And Navigation							

		3 rd	2 hrs	Right Image Format								
4	June	1 st	3 hrs	Tables And Forms								
		2 nd	5 hrs	-								
		3 rd	4 hrs	Frames And CSS								
		4 th	4 hrs	Page Layout & Design Issues								
		5 th	3 hrs	Java Script								
4	July	1 st	-									
		2 nd	4 hrs	Functions of Java Script					Assignments	1w	Yes	
		3 rd	-			I Internal Exam	1	Yes				
		4 th	3 hrs	Putting Site on Web								
		5 th	-									

Department of Computer Science & Applications

Annual Curricular Plan for B.SC-III (MSCS) for the year 2020-2021

S. No.	Month	Week	Hours Available	Syllabus topic	Additional Input/ Value Addition provided	Curricular Activity			Co-curricular Activity		
						Activity conducted	Hours Allotted	Whether Conducted	Activity conducted	Hours Allotted	Whether Conducted
1	February	3 rd	5 hrs	Operating System Structure							
		4 th	4 hrs	Process Management							
2	March	1 st	5 hrs	Process Synchronization							
		2 nd	2 hrs	CPU Scheduling							
		3 rd	5 hrs	Deadlocks							
		4 th	5 hrs	Main Memory & Virtual Memory							
		5 th	-								
3	April	1 st	2 hrs	File Systems							
		2 nd	4 hrs	Links And Navigation							



Department of Computer Science & Applications
Annual Curricular Plan for B.SC (MPCS) II year for the year 2020-2021

S. No.	Month	Week	Hrs	Syllabus topic	Additional Input/ Value Addition provided	Curricular Activity			Co-curricular Activity		
						Activity conducted	Hour s Allot ed	Whether Conducted	Activity conducted	Hours Allotted	Whether Conducted
1	February	3 rd	5 hrs	Algorithms And Pseudo Code							
		4 th	7 hrs	Stacks And its Applications							
2	March	1 st	5 hrs	Expression evaluation							
		2 nd	5 hrs	Recursion & Types							
		3 rd	6 hrs	Queues And Its Applications							
		4 th	4 hrs	Linked Lists							
		5 th	3 hrs	Trees & Graphs							
3	April	1 st	1 hr	Sorting Techniques							
		2 nd	7 hrs	DBMS & Applications							

		3 rd	2 hrs	Recovery Techniques										
		3 rd	3 hrs	Transaction Management										
4	June	1 st	6 hrs	Database Design & ER Model										
		2 nd	6 hrs	Functional Dependencies										
		3 rd	7 hrs	Normal Forms										
		4 th	7 hrs	Introduction to SQL										
		5 th	4 hrs	Joins in SQL										
4	July	1 st	1 hr	Aggregate Functions										
		2 nd	5 hrs	Views in SQL		I Internal Exam	1	Yes		Assignments	1w	Yes		
		3 rd	-											
		4 th	4 hrs	Types of Schemas										
		5 th	5 hrs	Advanced SQL										
5	August	1 st	5 hrs	Transaction Management										
		2 nd	6 hrs	Serializability										

		3 rd	2 hrs	Recovery Techniques							
		4 th	7 hrs	Database Security							
		5 th	1 hrs	Database Controls							
6	September	1 st	4 hrs	Integrity in Database							
		2 nd	-								

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Department of Computer Science & Applications
Annual Curricular Plan for B.SC (MPCS) III year for the year 2021-2022

S. No.	Month	Week	Hours Available	Syllabus topic	Additional Input/ Value Addition provided	Curricular Activity			Date	Co-curricular Activity		
						Activity conducted	Hours Allotted	Whether Conducted		Activity conducted	Hours Allotted	Whether Conducted
1	November	1 st	5 hrs	Java Essentials								
		2 nd	7 hrs	Type Casting & Loops								
		3 rd	2 hrs	Method Declaration & Invocation								
2	December	1 st	5 hrs	Constructors And its Types								
		2 nd	5 hrs	Command Line Arguments								
		3 rd	7 hrs	Inheritance in Java					Asignments given	1w	ye	
		4 th	4 hrs	Overriding		I Internal	45 min	yes				
		5 th	6 hrs	Packages								

Department of Computer Science&Applications

Annual Curricular Plan for B.SC (MSCS) II year for the year 2021-2022

3	January	1 st	5 hrs	Exceptions in Java								
		2 nd	-									
		3 rd	7 hrs	Multithreading in Java								
		4 th	7 hrs	Thread Class And Implementations								
		5 th	1 hrs	Thread Synchronization								
4	February	1 st	6 hrs	File Streams in Java		II Internal	45 min	yes				
		2 nd	8 hrs	Applets & Swings								
		3 rd	7 hrs	Event Handling in Java		Practical Exams	2	yes				
5	April	2 nd	1 hr	HTML & XHTML								
		3 rd	6 hrs	CSS & Types								
		4 th	4 hrs	Forms & Frames								
		5 th	8 hrs	Images & Links								
		6 th	8 hrs	Java Script								
6	May	1 st	8 hrs	Control Structures		I Internal		yes	19.05.22			
		2 nd	11 hrs	Functions						Assignments given	1w	yes
		3 rd	9 hrs	Arrays & Events								
		4 th	11 hrs	JS Objects								
		5 th	3 hrs	XML & XSL								
7	June	1 st	8 hrs	XML & XSL		II Internal		yes	06.06.22			
		2 nd	11 hrs	Ajax		Practical			16.06.22			

Department of Computer Science & Applications

Annual Curricular Plan for B.SC (MSCS) II year for the year 2021-2022

S. No.	Month	Week	Hrs	Syllabus topic	Additional Input/ Value Addition provided	Curricular Activity			Date	Co-curricular Activity		
						Activity conducted	Hours Allotted	Whether Conducted		Activity conducted	Hours Allotted	Whether Conducted
1	November	1 st	3 hrs	Basics Of Data Structures								
		2 nd	8 hrs	Algorithms And Pseudo Code								
		3 rd	5 hrs	Stacks And Its Applications								
2	December	1 st	3 hrs	Expression Evaluation								
		2 nd	6 hrs	Recursion & Its Variants								
		3 rd	8 hrs	Queues And Its Applications					Assignments given	1w	yes	
		4 th	5 hrs	Types of Queues		I Internal	45 min	yes				
		5 th	6 hrs	Linked Lists And Its types								



3	January	1 st	8 hrs	Trees And Its Types									
		2 nd	-										
		3 rd	8 hrs	Tree Traversal Techniques									
		4 th	6 hrs	Searching And Sorting									
		5 th	-										
4	February	1 st	7 hrs	Various Sorting Techniques		II Internal	45 min	yes					
		2 nd	8 hrs	Graphs & Traversal Techniques									
		3 rd	6 hrs	Hash Tables & Heaps		Practical Exams	2	yes					
5	April	2 nd	1 hr	DBMS & Purpose									
		3 rd	2 hrs	Architecture									
		4 th	3 hrs	Relational Model									
		5 th	4 hrs	Query Language									
6	May	1 st	2 hrs	ER Model									
		2 nd	3 hrs	Normal Forms		I Internal		yes	19.05.22				
		3 rd	1 hrs	Relational Design						Assignments given	1w	yes	
		4 th	3 hrs	SQL Language									
		5 th	-										
7	June	1 st	4 hrs	Joins		II Internal		yes	06.06.22				
		2 nd	6 hrs	Transactions		Practical			16.06.22				

Department of Computer Science & Applications

Annual Curricular Plan for B.SC -I (MPCS) for the year 2021-2022

S. No.	Month	Week	Hours Available	Syllabus topic	Additional Input/ Value Addition provided	Curricular Activity			Date	Co-curricular Activity		
						Activity conducted	Hours Allotted	Whether Conducted		Activity conducted	Hours Allotted	Whether Conducted
1	November	1 st	2 hrs	Computer Fundamentals And Anotomy								
		2 nd	9 hrs	Program Fundamentals								
		3 rd	3 hrs	Basics of C								
2	December	1 st	4 hrs	Operators in c								
		2 nd	5 hrs	Input And Output in C								
		3 rd	7 hrs	Control Statements						Assignments given	1w	yes
		4 th	5 hrs	Arrays And Strings		I Internal	45 min	yes				
		5 th	6 hrs	Functions in C								
3	January	1 st	8 hrs	Types of Functions								



		2 nd	-										
		3 rd	9 hrs	Passing Arrays to Functions									
		4 th	7 hrs	Pointers in C									
		5 th	1 hrs	Strings in C									
4	February	1 st	7 hrs	User Defined Data types		II Internal	45 min	yes		Student Seminar	1hr	yes	
		2 nd	9 hrs	Structures									
		3 rd	6 hrs	Unions & Enum Data type		Practical Exams	2	yes					
5	April	2 nd	1 hr	C++ Applications									
		3 rd	8 hrs	Arrays & Strings									
		4 th	5 hrs	Functions & OOPs									
		5 th	2 hrs	Constructors									
6	May	1 st	6 hrs	Overloading									
		2 nd	10 hrs	Types of Constructors		I Internal		yes	19.05.22				
		3 rd	7 hrs	Inheritance						Assignments given	1w	yes	
		4 th	10 hrs	Polymorphism									
		5 th	5 hrs	C++ Streams									
7	June	1 st	6 hrs	Exception Handling		II Internal		yes	06.06.22				
		2 nd	13 hrs	Templates		Practical			17.06.22				

Department of Computer Applications
Annual Curricular Plan for BCOM I year (II SEM) for the year 2021-2022
PROGRAMMING WITH C & C++

S. No.	Month	Week	Hours Available	Syllabus topic	Additional Input/ Value Addition provided	Curricular Activity				Co-curricular Activity			
						Activity conducted	Hours Allotted	Whether Conducted	Date	If not, Alternate date	Activity conducted	Hours Allotted	Whether Conducted
1	April	1 st	2	INTRODUCTION TO C LANGUAGE, VARIABLES, DATA TYPES AND OPERATORS Introduction: Types of Languages- History of C language, Basic Structure –	Types of Languages								
		2 nd	6	Programming Rules – Flow charts- algorithms– Commonly used library functions - Executing the C Program - Pre- processors in C Keywords & Identifiers – Constants – Variables: Rules for defining variables	Program Compilation								
		3 rd	5	Scope and Life of a Variable-- Data types - Type Conversion - Formatted Input and Output operations.									



		4 th	5	Operators: Introduction – Arithmetic – Relational – Logical – Assignment														
		5 th	6	WORKING WITH CONTROL STATEMENTS, LOOPS Conditional statements														
2	May	1 st	6	Introduction - If statements - If-else statements – nested if-else – break statement-continues statement go to statement-Switch statements. Looping statements	Programs													
		2 nd	6	Introduction While statements – Do- while statements, For Statements- nested loop statements		Assignme nt given	1 week	yes										
		3 rd	6	FUNCTIONS, ARRAYS AND STRINGS Functions Definition and declaration of functions- Function proto type														
		4 th	5	return statement- types of functions- formatted and unformatted functions, Built in functions:														

				Mathematical functions - String functions - Character functions - Date functions									
		5th	2	User defined functions: Introduction - Need for user defined functions, POINTERS, STRUCTURES AND UNIONS Pointers									
3	June	1 st	4	Features of pointers- Declaration of Pointers-arithmetic operations with pointers Structures, : Features of Structures - Declaring and initialization of Structures, - Enumerated data type									
		2 nd	6	OBJECT ORIENTED CONCEPTS USING C++ Object Oriented Programming, Structure of C++ - Simple program of C++- Storage Classes, Similarities and Differences between C & C++									

Department of Computer Applications
Annual Curricular Plan for BCOM II year (IV SEM) for the year A.Y: 2021-2022
WEBTECHNOLOGIES

S. No.	Month	Week	Hours Available	Syllabus topic	Additional Input/ Value Addition provided	Curricular Activity			Date	If not, Alternate date	Co-curricular Activity		
						Activity conducted	Hours Allotted	Whether Conducted			Activity conducted	Hours Allotted	Whether Conducted
1	April	1 st	2	Introduction to web technology – HTML – types of HTML tags- basic Structure of HTML, Web design principles – HTML attributes – styles – Hypertext, Formatting text – Forms & formulating instructions & formulation elements – Commenting code									
		2 nd	6	Back grounds Images Hyperlinks Lists Tables Frames AN OVER VIEW OF DYNAMIC WEB PAGES & DYNAMIC WEB PAGE, An over view of dynamic web pages									
		3 rd	6	Introduction to Dynamic HTML programming - Cascading style sheets (CSS), types									

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				and advantages of CSS, CSS basic syntax and structure										
		4 th	6	Changing Text and Attributes - Dynamically changing style, Text Graphics and placements, Creating multimedia effects with filters and Transactions.										
		5 th	5	Data types and variables Operators - Expressions and statements, Functions Objects Array - Date and math related objects										
2	May	1 st	6	Document object model - Event handling. EVENTS AND EVENT HANDLERS: Events And Event Handlers: General information about Events- Event - On Abort - On Click - On dbl click - On drag drop - On error										
		2 nd	6	On focus - On key Press - On key Up On load - On mouse Down - On mouse Move - On	Assignment given	1 week	yes							

				mouse Out, On mouse Over – On move – On rest, On resize – On select – On submit – On unload										
		3 rd	6	EXTENSIBLE MARKUP LANGUAGE (XML: Extensible Markup Language (XML): Introduction - Creating XML Documents										
		4 th	5	XML style Sheet – Hyperlinks in XML Document Object Model										
		5 th	2	XML Query Language. LAB WORK										
3	June	1 st	4	CREATING A WEBSITE WITH DYNAMIC FUNCTIONALITY USING CLIENT- SIDE AND SERVER SIDE SCRIPTING.										
		2 nd	6	Practical Programs Execution										

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Department of Computer Applications
Annual Curricular Plan for BCOM III year (VI SEM) for the year 2021-2022

CYBER SECURITY

S. No.	Month	Week	Hours Available	Syllabus topic	Additional Input/ Value Addition provided	Curricular Activity				Co-curricular Activity			
						Activity conducted	Hours Allotted	Whether Conducted	Date	If not, Alternate date	Activity conducted	Hours Allotted	Whether Conducted
1	April	1 st	2	Introduction to Cyber Security: Overview of Cyber Security, Internet Governance – Challenges and Constraints, Cyber Threats:- Cyber Warfare-Cyber Crime-Cyber terrorism- Cyber Espionage									
		2 nd	6	Cyber Security Vulnerabilities: : Overview, vulnerabilities in software, System administration, Complex Network Architectures, Cyber Security Safeguards: 6Overview, Cryptography, Deception Ethical Hacking, Firewalls									
		3 rd	6	Intrusion Detection									

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				Systems, Security, policy, Threat Management. Introduction, Basic security for HTTP Applications and Services, Basic Security for SOAP Services														
		4 th	6	Identity Management and Web Services, Authorization Patterns, Security Considerations, Challenges														
		5 th	5	Intrusion, Physical Theft, Abuse of Privileges, Malware infection, Intrusion detection and Prevention														
2	May	1 st	6	Network based Intrusion detection Systems, Prevention Systems, Host based Intrusion prevention System														
		2 nd	6	Security Information Management, Network Session Analysis, Introduction to Cryptography, Symmetric key Cryptography,		Assignment given	1 week	yes										
		3 rd	6	Asymmetric key Cryptography, Message Authentication, Overview of Firewalls-														

				Types of Firewalls, User Management, VPN Security															
		4 th	6	Security Protocols: - security at the Application Layer- PGP and S/MIME, Security at Transport Layer- SSL and TLS, Security at Network Layer-IPSec.															
		5 th	2	Cyberspace and The Law: Introduction, Cyber Security Regulations, Roles of International Law, ,the state and Private Sector in Cyberspace , National Cyber Security Policy 2013.															
3	June	1 st	4	Cyber Forensics: Introduction to Cyber Forensics, Conducting disk-based analysis,															
		2 nd	6	Scrutinizing E-mail, Validating E-mail header information, Tracing Internet access, Tracing memory in real-time.															

Department of Computer Science & Applications
Annual Curricular Plan for B.SC (MPCS) III year for the year 2022-2023

S. No.	Month	Week	Hours Available	Syllabus topic	Additional Input/ Value Addition provided	Curricular Activity			Date	Co-curricular Activity		
						Activity conducted	Hours Allotted	Whether Conducted		Activity conducted	Hours Allotted	Whether Conducted
1	August	3 rd	5 hrs	Java Essentials ,Java Program Structure								
		4 th	9 hrs	Conditional And Loop Statements in Java								
		5 th	6 hrs	Classes And Objects								
2	September	1 st	7 hrs	Methods And Constructors in Java								
		2 nd	8 hrs	Arrays And Static Keyword								
		3 rd	10 hrs	Concept of Inheritance And its Types				15.09.22	Asignments given	1w	ye	
		4 th	13 hrs	Abstract And Friend Classes								



3	October	3 rd	6 hrs	Concept of Packages And its Uses															
		4 th	4 hrs	String And String Buffer Classes															
		5 th	6 hrs	Concept of Exception Handling															
4	November	1 st	4 hrs	Types of Exceptions															
		2 nd	4 hrs	Handling of Exceptions in Java															
		3 rd	7 hrs	Multithreading And Thread Life cycle															
		4 th	11 hrs	I/O Streams in Java															
		5 th	5 hrs	File I/O And Buffer I/O															
5	December	1 st	7 hrs	Applets And Its Life cycle															
		2 nd	3 hrs	AWT Components in Java															

I Internal 45 min yes

		3 rd	8 hrs	Swings in Java								
		4 th	-	-		Practical Exams	2	yes				

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Department of Computer Science & Applications

Annual Curricular Plan for B.SC (MPCS) II year for the year 2022-2023

S. No.	Month	Week	Hours Available	Syllabus topic	Additional Input/ Value Addition provided	Curricular Activity			Date	Co-curricular Activity		
						Activity conducted	Hours Allotted	Whether Conducted		Activity conducted	Hours Allotted	Whether Conducted
1	August	3 rd	6 hrs	Data Structures And its Types								
		4 th	9 hrs	Algorithms ,Pseudo Code And Flow Charts								
		5 th	6 hrs	Analysis of Algorithms								
2	September	1 st	4 hrs	Stack Data Structure And its Uses								
		2 nd	8 hrs	Applications of Stack								
		3 rd	11 hrs	Polish Notations				05.09.22	Student Seminar Conducted	1 hr	yes	
		4 th	10 hrs	Reversing a String & Recursion				12.09.22	Asignments given	1w	yes	

3	October	3 rd	8 hrs	Recursion and Its Types					14.10.22	Quiz Conducted	2 hrs	yes
		4 th	7 hrs	Queue Data structure And Its Applications								
		5 th	8 hrs	Concept of Linked List		I Internal	45 min	yes				
4	November	1 st	4 hrs	Linked list operations								
		2 nd	4 hrs	Linked Stack And Linked Queue								
		3 rd	8 hrs	Trees And its Types								
		4 th	8 hrs	Tree Traversal Techniques								
		5 th	4 hrs	Sorting Techniques								
5	December	1 st	4 hrs	Graph Data Structures And its Traversal								
		2 nd	4 hrs	Hashing And its collision Strategies								
		3 rd	5 hrs	Heap sort								
		4 th	-	-		Practical Exams	2	yes				

Department of Computer Applications
Annual Curricular Plan for BCA I year I SEM for the year 2022-2023
BCA104PC-Introduction to Web Technology

S. No.	Month	Week	Hours Available	Syllabus topic	Additional Input/ Value Addition provided	Curricular Activity				Co-curricular Activity			
						Activity conducted	Hours Allotted	Whether Conducted	Date	If not, Alternate date	Activity conducted	Hours Allotted	Whether Conducted
1	Oct	3	6	WWW, WebBrowsers, WebServers, BOM, DOM, HTTP.									
		4	6	HTML5:Introduction,HTML5 Tags, Links,									
		5	6	Input, Images, Lists, Tables, Creating Forms,									
		6	1	Styling Forms, Placeholder,									
2	Nov	1	5	Inline and Block elements, Id vs Class elements ,Need and Benefit of CSS3, CSS3 Syntax, Comments,.									
		2	6	CSS3 in HTML Documents(Inline, Embedded and External Style Sheets)									
		3	6	CSS3- Selectors: Universal Selector, Element Type Selector, Id Selectors, Class Selectors, Group Selectors									
		4	6	CSS3-Styles: CSS Color, CSS Background, CSS Fonts, CSS Text, CSS Links, CSS Lists, CSS Tables.									



				Margin, Padding, Border, Outline, Visibility, Display, Multiple Columns.																
3	Dec	1	3	Responsive Web Design (RWD)- Introduction, Viewport,.																
		2	6	Creating Responsive Websites, Responsive Images, Responsive Texts.																
		3	6	RWD-Media Queries: Introduction, Media Types, Device Breakpoints																
		4	6	RWD-Grid View: Introduction, grid-row, grid-column.																
		5	6	Introduction to Javascript ,JavaScript and Forms Variables, Functions, Operators																
4	Jan	1	6	Conditional Statements and Loops, ,.																
		2	6	Arrays, DOM Methods, Strings																
		3	6	Java Script Closures, JSON, Events Handling(Mouse Events, Keyboard Events).																
		4	6	Introduction to TypeScript-Overview of Typescript																
		5	2	,Interface, classed, Functions, Generices,																
5	Feb	1	3	Enums, Adv Types, Modules, JSX overview																
		2	6	Practical Examinations																

Department of Computer Applications
Annual Curricular Plan for BCOM II year (III SEM) for the year 2022-2023
RELATIONAL DATABASE MANAGEMENT SYSTEM

S. No.	Month	Week	Hours Available	Syllabus topic	Additional Input/ Value Addition provided	Curricular Activity			Date	If not, Alternate date	Co-curricular Activity		
						Activity conducted	Hours Allotted	Whether Conducted			Activity conducted	Hours Allotted	Whether Conducted
1	Aug	3	4	Database Management System ,File based System									
		4	6	Three level architecture of DBMS ,Physical DBMS Architecture,									
		5	3	Types of Database ,ER models									
2	Sept	1	3	Relational Database Integrity , and Tree structures									
		2	6	Rules of Data Normalization	Assignment given	1 week	yes						
		3	6	Entity Intrgrity,Boyce codd Normal form,									
		4	5	Types of Indexes									
		5	5	Hased File Organization, Index									
3	Oct	1	1	SQL commands , , ,									
		2	6	DDL ,DML ,DCL									
		3	6	TCL commands		Seminars							
		4	6	Queries using order by ,where group by									
		5	5	nested queries		Internal Exams I		28/10/22					
		6	1	Programs Practice									
4	Nov	1	5	Transactions, Concurrent									

Department of Computer Applications
Annual Curricular Plan for BCOM III year (V SEM) for the year 2022-2023
E COMMERCE

S. No.	Month	Week	Hours Available	Syllabus topic	Additional Input/ Value Addition provided	Curricular Activity			Date	If not, Alternate date	Co-curricular Activity		
						Activity conducted	Hours Allotted	Whether Conducted			Activity conducted	Hours Allotted	Whether Conducted
1	Aug	3	4	Meaning Advantages & Limitations-E-Business, Traditional & Contemporary Model									
		4	6	B2B-B2C-C2B-C2C-B2E Applications of Ecommerce									
		5	3	Application Services-Interface LayersTCP/IP-,									
2	Sept	1	3	HTTP-Secured									
		2	6	HTTP-SMTP-SSL,CryPtography		Assignment given	1 week	yes					
		3	6	public key, private key									
		4	5	Digital Signatures									
		5	5	Mercantile Process Model ,									
3	Oct	1	1	E-Cash ,&E-cheque									
		2	6	Electronic fund Transfer									
		3	6	E-Payment System-		Seminars							
		4	6	Smart cards									
		5	5	EDI Standards-Types of EDI		Internal Exams I			28/10/22				
		6	1	EDI Applications in Business ,									
4	Nov	1	5	Private issues of									

				EDI,										
		2	6	EDI and E-Commerce										
		3	6	EDI software Implementation										
		4	6	E-Marketing techniques ,Search engines &Directory services										
		5	3	, online Marketing Process ,Applications of 5P's										
5	Dec	1	3	E-Advertisement, Role of Digital Marketing										
		2	6	Revision			Internal Exam 1							
		3	6	Practical Exams										

Department of Computer Applications
Annual Curricular Plan for BCOM II year (III SEM) for the year 2022-2023
RELATIONAL DATABASE MANAGEMENT SYSTEM

S. No.	Month	Week	Hours Available	Syllabus topic	Additional Input/ Value Addition provided	Curricular Activity			Date	If not, Alternate date	Co-curricular Activity		
						Activity conducted	Hours Allotted	Whether Conducted			Activity conducted	Hours Allotted	Whether Conducted
1	Aug	3	4	Database Management System ,File based System									
		4	6	Three level architecture of DBMS ,Physical DBMS Architecture,									
		5	3	Types of Database ,ER models									
2	Sept	1	3	Relational Database Integrity , and Tree structures									
		2	6	Rules of Data Normalization	Assignment given	1 week	yes						
		3	6	Entity Integrity,Boyce codd Normal form,									
		4	5	Types of Indexes									
		5	5	Hased File Organization, Index									
3	Oct	1	1	SQL commands , , ,									
		2	6	DDL ,DML ,DCL									

		3	6	TCL commands		Seminars								
		4	6	Queries using order by ,where group by nested queries					28/10/22					
		5	5			Internal Exams I								
		6	1	Programs Practice										
4	Nov	1	5	Transactions, Concurrent Transactions										
		2	6	Locking protocol										
		3	6	Database Recovery										
		4	6	Database errors										
		5	3	Database security Authorization										
5	Dec	1	3	Needs for a Distributed Database System , Structure of DDBMS,										
		2	6	Data Replication , Data Fragmentation										
		3	6	Client Server Databases										
		4	1	Preparation holidays										
6	Jan			Theory exams										

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Department of Computer Applications

Annual Curricular Plan for BCA I year I SEM for the year 2022-2023

BCA104PC-Introduction to Web Technology

S. No.	Month	Week	Hours Available	Syllabus topic	Additional Input/ Value Addition provided	Curricular Activity			Date	If not, Alter nate date	Co-curricular Activity		
						Activity conducted	Hours Allotted	Whether Conducted			Activity conducted	Hours Allotted	Whether Conducted
1	Oct	3	6	WWW, WebBrowsers, WebServers, BOM, DOM, HTTP.									
		4	6	HTML5:Introduction,HTML5 Tags, Links,									
		5	6	Input, Images, Lists, Tables, Creating Forms,									
		6	1	Styling Forms, Placeholder,									
2	Nov	1	5	Inline and Block elements, Id vs Class elements ,Need and Benefit of CSS3, CSS3 Syntax, Comments,.									
		2	6	CSS3 in HTML Documents(Inline, Embedded and External Style Sheets)									
		3	6	CSS3- Selectors: Universal Selector, Element Type Selector, Id Selectors, Class Selectors, Group Selectors									
		4	6	CSS3-Styles: CSS Color, CSS Background, CSS Fonts, CSS Text, CSS Links, CSS Lists, CSS Tables.									



Department of Computer Applications

Annual Curricular Plan for BCOM I year (I SEM) for the year 2022-2023

FUNDAMENTALS OF INFORMATION TECHNOLOGY

S. No.	Month	Week	Hours Available	Syllabus topic	Additional Input/ Value Addition provided	Curricular Activity				Co-curricular Activity			
						Activity conducted	Hours Allotted	Whether Conducted	Date	If not, Alternate date	Activity conducted	Hours Allotted	Whether Conducted
1	Oct	3 rd	6	Characteristic of computer, evolution of computer, block diagram of computer									
		4 th	6	I/O devices of computer, Input units									
		5 th	1	output units									
2	Nov	1 st	5	Number system, Binary									
		2 nd	6	Binary arithmetic									
		3 rd	6	binary, octal									
		4 th	6	Decimal, hexadecimal									
		5 th	3	converting from one number system to another		Assignment given	1 week	yes	25/11/22				
3	Dec	1 st	5	Software and needs									
		2 nd	6	Types of software		Internal	45 min	yes	8/12/22				
		3 rd	6	Operating system									
		4 th	6	Machine language									
		5 th	6	Assembly language High level language									
4	Jan	1 st	6	Word Processing ,Spread sheet ,Presentation									
		2 nd	6	Functions , Measuring System		seminar	1 hour	yes	4/1/				
		3 rd	6										
		4 th	6										
		5 th	6										

				Performance,					23				
		2nd	6	Operating System Software									
		3 rd	6	Assemblers , Compilers ,interpreters, Batch processing, Time Sharing, DOS ,Windows Unix/Linux									
		4 th	6	Data , Communication ,Basic network Devices ,Communicational Process									
		5 th	2	Data Transmission speed ,Types of Networks									
5	Feb	1 st	3	LAN Topologies, Computer Protocols				Internals 8,9,10 feb					
		2 nd	6	Preparation holidays									

Department of Computer Applications

Annual Curricular Plan for BCOM II year (III SEM) for the year 2022-2023

RELATIONAL DATABASE MANAGEMENT SYSTEM

S. No.	Month	Week	Hours Available	Syllabus topic	Additional Input/ Value Addition provided	Curricular Activity			Date	If not, Alternate date	Co-curricular Activity		
						Activity conducted	Hours Allotted	Whether Conducted			Activity conducted	Hours Allotted	Whether Conducted
1	Aug	3	4	Database Management System ,File based System									
		4	6	Three level architecture of DBMS ,Physical DBMS Architecture,									
		5	3	Types of Database ,ER models									
2	Sept	1	3	Relational Database Integrity , and Tree structures									
		2	6	Rules of Data Normalization	Assignment given	1 week	yes						
		3	6	Entity Intrgrity,Boyce codd Normal form,									
		4	5	Types of Indexes									
		5	5	Hased File Organization, Index									
3	Oct	1	1	SQL commands , , ,									
		2	6	DDL ,DML ,DCL									
		3	6	TCL commands		Seminars							
		4	6	Queries using order by ,where group by									

		5	5	nested queries		Internal Exams I			28/10/22				
		6	1	Programs Practice									
4	Nov	1	5	Transactions, Concurrent Transactions									
		2	6	Locking protocol									
		3	6	Database Recovery									
		4	6	Database errors									
		5	3	Database security Authorization									
5	Dec	1	3	Needs for a Distributed Database System , Structure of DDBMS,									
		2	6	Data Replication , Data Fragmentation									
		3	6	Client Server Databases									
		4	1	Preparation holidays									
6	Jan			Theory exams									

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Department of Computer Applications
Annual Curricular Plan for BCOM III year (V SEM) for the year 2022-2023
E COMMERCE

S. No.	Month	Week	Hours Available	Syllabus topic	Additional Input/ Value Addition provided	Curricular Activity			Date	If not, Alter nate date	Co-curricular Activity		
						Activity conducted	Hours Allotted	Whether Conducted			Activity conducted	Hours Allotted	Whether Conducted
1	Aug	3	4	Meaning Advantages & Limitations-E-Business, Traditional & Contemporary Model									
		4	6	B2B-B2C-C2B-C2C-B2E Applications of Ecommerce									
		5	3	Application Services-Interface LayersTCP/IP-,									
2	Sept	1	3	HTTP-Secured									
		2	6	HTTP-SMTP-SSL,CryPtography		Assignment given	1 week	yes					
		3	6	public key, private key									
		4	5	Digital Signatures									
		5	5	Mercantile Process Model ,									
3	Oct	1	1	E-Cash ,&E-cheque									
		2	6	Electronic fund Transfer									
		3	6	E-Payment System-		Seminars							
		4	6	Smart cards									

		5	5	EDI Standards- Types of EDI					28/10/22					
		6	1	EDI Applications in Business ,										
4	Nov	1	5	Private issues of EDI,										
		2	6	EDI and E- Commerce										
		3	6	EDI software Implementation										
		4	6	E-Marketing techniques ,Search engines &Directory services										
		5	3	, online Marketing Process ,Applications of 5P's										
5	Dec	1	3	E-Advertisement, Role of Digital Marketing										
		2	6	Revision			Internal Exam 2							
		3	6	Practical Exams										

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		3 rd	3 hrs	Transaction Management									
4	June	1 st	6 hrs	Database Design & ER Model									
		2 nd	6 hrs	Functional Dependencies									
		3 rd	7 hrs	Normal Forms									
		4 th	7 hrs	Introduction to SQL									
		5 th	4 hrs	Joins in SQL									
4	July	1 st	1 hr	Aggregate Functions									
		2 nd	5 hrs	Views in SQL		I Internal Exam	1	Yes		Assignments	1w	Yes	
		3 rd	-										
		4 th	4 hrs	Types of Schemas									
		5 th	5 hrs	Advanced SQL									
5	August	1 st	5 hrs	Transaction Management									
		2 nd	6 hrs	Specialized...									