# VIKRAM UNIVERSITY, UJJAIN MP

## (Session -2022-2023 onwards)

## BCA (Hon's) FOUR YEARS (EIGHT SEMESTERS), CBCS SCHEME (NEP)

S.No.	Paper code	Course Component and	Credits Marks		Total				
		Name of Course							
		Trume of course	T	P	Total	Max Marks CCE Internals	Max Marks Theory Externals		
1	BCAH 301 Major-1	Data Structure using C++	2	0	2	30	45	100	
1.	ВСАН Р	Data Structure using C++	0	1	1	10	15	100	
2.	BCAH 302 Major-2	Data Communication and Computer Network	3	0		40	60	100	
3.	BCAH 303 Minor-1	System Analysis and Design	3	0		40	60	100	
4.	BCAH-304 Generic Elective	E-Commerce	3	0		40	60	100	
5.	Ability Enhancement Course	Hindi	2	0		20	30	100	
		English	2	0		20	30		
6.	Vocational/Skill Enhancement- Course from any faculty/Mooc Course	Web Development using PHP	4	0		40	60	100	
	Total Credits an	nd marks			20			600	

	PART A: Introduction					
Progr	ram: Diploma	Class: III Sl		Year: II Year	Session: 2022-23	
		Subj	ect: C	Computer Application		
1.	Course Code		BCAH	[ 301		
2.	Course Title		Data S	Structures Using C+	+	
3.	Course Type (Cor Course/Elective/C Elective/ Vocatio	Generic	Core course			
4.	4. Pre-Requisite (if any)  To study this course, a student must have the basic knowledge of C and C++			ent must have the basic		
5.	Course Learning Outcomes(CLO)					
6.	Credit Value		6 cred	its		
7.	Total Marks		Max.	Marks : 15+35	Min. Passing Marks: 17	

	PART B: Content of the Course	
Total	No. of Lectures (in hours per week): 01 Hour per day	
	Total Lectures:60 Hours	
Unit	Topics	No. of
		Lectures
I	<b>Stacks and Queues:</b> Introduction to Data Structures, Common operations on data structures, Types of data structures, ADT Stack and its implementation in C++: various operations on stack, various polish notations-infix, prefix, postfix, conversion from one to another-using stack; evaluation of postfix expressions. Contiguous implementation of queue: Linear queue, its drawback; circular queue; various operations on queue; Evaluation of postfix expressions, ADT Queue and its implementation in C++.	12
II	<b>Searching algorithms:</b> Linked Lists: Defining & implementing linked lists with creation, insertion and deletion operations in C++, Sequential search & Binary search algorithms, Implementation in C++.	12
III	<b>Sorting Algorithms:</b> Implementation and Algorithm Analysis of Insertion sort, Selection sort, Merge Sort, Quick Sort and Bubble sort.	12

IV	<b>Trees:</b> Basic Terminology, Binary Trees, Tree Representations using Array & Linked List, Basic operation on Binary Trees, Traversal of binary trees: - In order, Preorder &Post order, Application of Binary tree, Binary Search Tree, Heap Tree, AVL Trees.	12
V	<b>Graphs:</b> Introduction to graphs, Definition, Terminology, Directed, Undirected & Weighted graph, Representation of graphs, Graph Traversal-Depth first & Breadth first search.	12
	<b>Hashing and Indexing:</b> Hash Table, Collision resolution Techniques, index techniques, cylinder-surface indexing, tree indexing-B-trees, trie indexing.	

Textbooks, Reference Books, Other Resources

## **Suggested Readings:**

- 1. Date Structure: By lipschuists (Schaum's Outline Series Mcgraw Hill Publication)
- 2. Introduction to Data Structures and Algorithms with C ++, GLENN W.ROWE, Prentice Hall India, 2003
- 3. Data Structures and Algorithms, Alfred V. Aho, John E. Hopecraft, Jaffrey D. Ullman, Pearson education

## **Suggested Web Link:**

- 1. https://nptel.ac.in/courses/106102064
- 2. https://nptel.ac.in/courses/106106133
- 3. <a href="https://www.tutorialspoint.com/data">https://www.tutorialspoint.com/data</a> structures algorithms/data structures algorithms/data structures algorithms pdf version.htm

Part D: Assessment and Evaluation								
Suggested Continuous Eva	Suggested Continuous Evaluation Methods:							
Maximum Marks:	75							
Continuous Comprehensive	Evaluation (CCE): <b>30</b> Marks							
University Exam (UE):	<b>45</b> Marks							
<b>Internal Assessment:</b>	Class Test	15						
Continuous	Assignment/Presentation	15						
Comprehensive		Total Marks: 30						
Evaluation (CCE)								
<b>External Assessment:</b>	Section (A):Short Answer type questions	$03 \times 05 = 15$						
University Exam (UE)								
Time: 03.00 Hours	Section (B): Long Answer Type	$06 \times 05 = 30$						
	Questions							
		Total Marks: 45						

#### **PART A: Introduction**

Progran	n: <b>Diploma</b>	Class: B.C.A.	Year: II Year (III Sem)	Session: <b>2022-23</b>			
Subject	: Computer Application						
1.	Course Code	ВСАНР					
2.	Course Title	Data Structure using C+	Data Structure using C++				
3.	Course Type (Core Course/Elective/Generic Elective/ Vocational	Core Course					
4.	Pre-Requisite (if any)	To study this course, a s	tudent must have the basic known	owledge of C and			
5.	Course Learning Outcomes(CLO)	<ul> <li>to do the following:</li> <li>Outline basic ob Polymorphism, I</li> <li>Understand and Lists, Queues.</li> <li>Understand and Binary search tree</li> <li>Analyses sorting relationship to d</li> <li>Analyses time and Choose and imp</li> </ul>	<ul> <li>After the completion of this course, a successful student will be able to do the following:</li> <li>Outline basic object-oriented design concepts. i.e., Inheritance, Polymorphism, Dynamic Method Binding etc.</li> <li>Understand and implement the various data structures such as</li> </ul>				
6.	Credit Value	Practical – 2 Credits					
7.	Total Marks	Max. Marks : 10+15	Min. Passing Mar	ks: 10			
		PART B: Content of					
	No. of L	ab Practicals (in hours per w					
		Total No. of Lab.:		N et . l			
	G: 41 11	Suggestive list of Practilem statement, students a		No. of Labs.			
	1. Write a C+ 2. Write a C+ 3. Write a C+ array. 4. Write a C+ queue usin 5. Write a C+ circular qu 6. Write a C+ 7. Write a C+ 8. Write a C+ 9. Write a C+ 10. Write a C+ 11. Write a C+	p flowchart/algorithm, wrishould be given assignment  + Program to produce the sum + Program for addition of two + Program for Push and pop  + Program for Insertion and	te code in C, execute and s on following:  of Array elements.  array.  operation on stack using  deletion operation on  deletion operation on				

deletion.	

Textbooks, Reference Books, Other Resources

#### **Suggested Readings**

- J. R. Hanly and E. B. Koffman, "Problem Solving and Program Design in C", Pearson, 2015
- E. Balguruswamy, "C++", TMH Publication ISBN O-07-462038-X
- Herbert Shildt, "C++ The Complete Reference "TMH Publication ISBN 0-07-463880-7

#### **Reference Books:**

- R. Lafore, 'Object Oriented Programming C++"
- N. Dale and C. Weems, "Programming and problem solving with C++: brief edition", Jones & Bartlett Learning.
- Adam Drozdek, "Data Structures and algorithm in C++", Third Edition, Cengage Learning.
- SartajSahani, "Data Structures, Algorithms and Applications with C++", McGraw Hill.
- Robert L. Kruse, "Data Structures and Program Design in C++", Pearson.
- D.S. Malik, "Data Structure using C++", Second edition, Cengage Learning.
- M. A. Weiss, "Data structures and Algorithm Analysis in C", 2nd edition, Pearson.
- Lipschutz, "Schaum's outline series Data structures", Tata McGraw-Hill

### Suggestive digital platform web links

https://www.youtube.com/watch?v=BClS40yzssA

https://www.youtube.com/watch?v=vLnPwxZdW4Y&vl=en

https://www.youtube.com/watch?v=Umm1ZQ5ltZw

Suggested equivalent online courses

PART D: Assessment and Evaluation				
Internal Assessment : Con	tinuous	<b>External Assessment</b> : University Exam (UE) : <b>15</b>		
Comprehensive Evaluation	(CCE) : <b>10Marks</b>	Marks		
		Time: <b>02.00 Hours</b>		
Internal Assessment	Marks	<b>External Assessment</b>	Marks	
Hands-on Lab Practice	2 Marks	Practical record file	5 Marks	
Viva	3 Marks	Viva voce practical	5 Marks	
Lab Test from practical list	2 Marks	Table works/ Exercise Assigned (02) in practical exam	2 Marks	
Assignments (Charts/ Model)/ Technology Dissemination/ Excursion/ Lab visit/ Industrial Training	3 Marks	Reports of excursion/ Lab visits/ Industrial training/ Survey/ Collection/ Models	3 Marks	
Total Excursion/ Lab visits/ Industrial Training is compulsory	10 Marks	Total	15 Marks	

	PART A: Introduction				
Progr	am: Diploma	Class: III S			
	T	Sub	pject:Computer Application		
1.	Course Code		BCAH 302		
2.	Course Title		Data Communication and Computer Network		
3.	Course Type (Co Course/Elective/ Elective/ Vocation	Generic onal	Core		
4.	Pre-Requisite (if	any)	To study this course, a student must have the basic knowledge of Computers.		
5.	Course Learning Outcomes(CLO)		<ul> <li>Demonstrate the Basic Concepts of Networking, Networking Principles, Routing Algorithms, IP</li> <li>Addressing and Working of Networking Devices.</li> <li>Demonstrate the Significance, Purpose and application of Networking Protocols and Standards.</li> <li>Describe, compare and contrast LAN, WAN, MAN, Intranet, Internet, AM, FM, PM and Various Switching Techniques.</li> <li>Explain the working of Layers and apply the various protocols of OSI &amp; TCP/IP model.</li> <li>Analyze the Requirements for a Given Organizational Structure and Select the Most Appropriate Networking Architecture and Technologies.</li> <li>Design the Network Diagram and Solve the Networking Problems of the Organizations with Consideration of Human and Environment.</li> <li>Install and Configure the Networking Devices.</li> </ul>		
6.	Credit Value		6 Credits		
7.	Total Marks		Max.Marks: 100 Min. Passing Marks:40		

	PART B: Content of the Course				
Total	No. of Lectures(in hours per week): 1 Hour per Day				
	Total Lectures: 6 Hours				
Unit	Topics	No. of			
		Lectures			
	Network goals and application, Network structure, Network services,				
I	Example of networks and Network Standardization, Networking models:	18			
	centralized, distributed and collaborative. Network Topologies: Bus, Star,				
	Ring, Tree, Hybrid: Selection and Evaluation factors.				
	Theoretical Basis for Data communication, Transmission media, Twisted				
	pair (UTP, STP), Coaxial Cable, Fiberoptics: Selection and Evaluation				

II	factors. Line of Sight Transmission, Communication Satellites. Analog	18
	and Digital transmission. Transmission and switching, frequency division	
	and time division multiplexing, STDM, Circuit switching, packet switching	
	and message switching,	
	Brief Overview of LAN (Local Area Network): Classification. Brief	
III	overview of Wide Area Network (WAN). Salient features and differences of	
	LAN with emphasis on: Media, Topology, Speed of Transmission, Distance,	18
	Cost. Terminal Handling, Polling, Token passing, Contention. IEEE	
	Standards: their need and developments.	
	Open System: What is an Open System? Network Architectures, ISO-OSI	
IV	Reference Model, Layers: Application, Presentation, Session, Transport,	18
	Network, Data Link & Physical. Physical Layer - Transmission, Bandwidth,	
	Signaling devices used, media type. Data Link Layer - : Addressing, Media	
	Access Methods, Logical link Control, Basic algorithms/protocols.	
	Network Layer: Routing: Fewest-Hops routing, Type of Service routing,	
V	Updating Gateway routing information. Brief overview of Gateways,	18
	Bridges and Routers, Gateway protocols, routing daemons. OSI and TCP/IP	
	model. TCP/IP and Ethernet. The Internet: The structure of the Internet, the	
	internet layers, Internetwork problems. Internet Standards.	

Textbooks, Reference Books, Other Resources

### **Suggested Readings:**

- 1. Tannanbaum, A.S.: Computer Networks, Prentice Hall, 1985.processing, Prentice Hall, 1983.
- 2. Black: Computer Networks: Protocols, standords and Interfaces, Prentice Hall International 1. Tannanbaum, A.S.: Computer Networks, Prentice Hall, 1985.processing, Prentice Hall, 1983.

#### **Suggested Web Link:**

https://nptel.ac.in/courses/106/105/106105082/

http://cse.iitkgp.ac.in/~sandipc/courses/cs31006/slides/application\_layer.pdf

https://onlinecourses.nptel.ac.in/noc22\_ee61/preview

https://nptel.ac.in/course.html

https://pll.harvard.edu/subject/computer-networking

Part D: Assessment and Evaluation					
Suggested Continuous Eva	aluation Methods:				
Maximum Marks:	100				
Continuous Comprehensive	Evaluation (CCE): 40 Marks				
University Exam (UE):	<b>60</b> Marks				
<b>Internal Assessment:</b>	Class Test	20			
Continuous	Assignment/Presentation	20			
Comprehensive		<b>Total Marks: 40</b>			
Evaluation (CCE)					

<b>External Assessment:</b>		$04 \times 05 = 20$
University Exam (UE)	Section (A): Five Short Questions	
Time: 03.00 Hours		$08 \times 05 = 40$
	Section (B): Five Long Questions	
		Total Marks: 60

	PART A: Introduction					
Program: Diploma Class: III S			SEM	Year: II Year	Session: 2022-23	
		Sub	ject: C	omputer Application		
1.	Course Code		BCAH	I-303		
2.	Course Title		Syster	n Analysis and Desi	gn	
3.	Course Type (Co	re	Minor	•		
	Course/Elective/C	Generic				
	Elective/ Vocatio	nal				
4.	Pre-Requisite (if	any)	Students must have the basic knowledge of Computer		basic knowledge of Computer	
basics.						
5.	Course Learning		<ul> <li>Understand the application of software engineering</li> </ul>			
	Outcomes(CLO)		approaches in software development.			
			•	Ability to plan and	estimate projects.	
			•	Analyze and design	software.	
			•	Produce quality soft	tware using testing and quality	
				assurance mechanis	ms.	
			<ul> <li>Understand the importance of software</li> </ul>			
			maintenance.			
6.	Credit Value		6 cred	its		
7.	Total Marks		Max. I	Marks : 100	Min. Passing Marks: 40	

	PART B: Content of the Course			
Total	No. of Lectures (in hours per week): 01 Hour per day			
	Total Lectures:90 Hours			
Unit	Topics	No. of		
		Lectures		
I	Overview of system analysis and design, system development life cycle, project selection, feasibility analysis, design, implementation, testing and evaluation.	18		
II	Feasibility study- Technical and economical feasibility, cost and benefit analysis	18		
III	System requirement specification and analysis: Fact finding techniques, Data flow diagrams, Data dictionaries, process organisation and interactions, decision analysis, decisin trees and tables.	18		
IV	Detailed design- Modularisation, module specification, file design, system development involving data bases. System Control and Quality Assurance- reliability and maintenance.	18		
V	Software design and documentation tools, top-down ,bottom-up and variants. Units and integration testing, testing practices and plans. System controls, Audit trails.	18		

Textbooks, Reference Books, Other Resources

#### **Suggested Readings:**

- 1. James, A.S.: Analysis of design of Information systems, Mcgraw Hill 1986.
- 2. Ludeberg, M., Golkuhl, G. and hilsson, A.: Information systems development, Asystematis approach, Prentice Hall international 1981.
- 3. lesson, M.: System analysis and design, science research associates, 1985
- 4. Sempriv, P.C.: System analysis-Definition Process and Design, 1982
- 5. Richard, D.: System analysis design, Irwin Inc. 1979.
- 6. Awad, E. Homewood: System analysis and design, Awad, Irwin 1979.

#### **Suggested Web Link:**

https://nptel.ac.in/courses/106108102

https://nptel.ac.in/courses/107106009

https://www.tutorialspoint.com/system\_analysis\_and\_design/index.htm

Part D: Assessment and Evaluation							
<b>Suggested Continuous Eva</b>	Suggested Continuous Evaluation Methods:						
Maximum Marks:	100						
Continuous Comprehensive	Evaluation (CCE): 40 Marks						
University Exam (UE):	<b>60</b> Marks						
<b>Internal Assessment:</b>	Class Test	20					
Continuous	Assignment/Presentation	20					
Comprehensive		Total Marks: 40					
Evaluation (CCE)							
<b>External Assessment:</b>	Section (A):Short Answer type questions	$04 \times 05 = 20$					
University Exam (UE)							
Time: 03.00 Hours	Section (B): Long Answer Type	$08 \times 05 = 40$					
	Questions						
		Total Marks: 60					

	PART A: Introduction					
Progr	Program: Diploma Class: III S		SEM	Year: II Year	Ses	ssion: 2022-23
		Sub	<b>ject:</b> Co	mputer Application		
1.	Course Code		BCAH	304		
2.	Course Title		E-Com	merce		
3.	Course Type (Co	re	Generio	Elective		
	Course/Elective/C	Generic				
	Elective/ Vocatio	nal				
4.	Pre-Requisite (if	any)	Student	s must have the b	asic know	vledge of Computer
basics.						
5.	5. Course Learning On			On the completion of this course student will be able -		
	Outcomes(CLO) • To learn the fundamentals of E Commerce and				E Commerce and its	
				process.	1 6 5	
		• To understand the role of E- commerce in the present scenario along with the concepts of				
				security and its app		i the concepts of
				• • • • • • • • • • • • • • • • • • • •		erce business needs
						chnology considering
				numan factors and bu		<b>.</b>
				Γο apply knowledge		
			traditional business models and strategy.			
			To have skills to communicate effectively and			
			ethically using electronic communication.			
6.	Credit Value		6 credits			
7.	Total Marks		Max. M	arks: 100	Min. Pass	sing Marks: 40

	PART B: Content of the Course				
Total	No. of Lectures (in hours per week): 01 Hour per day				
	Total Lectures:90 Hours				
Unit	Topics	No. of			
		Lectures			
I	Introduction Brief history of e-commerce ,Types , Advantages & Disadvantages of e-commerce , Elements of e-commerce , Principles ofe-	12			
	commerece, Messaging and Information distribution, Messaging and				
	information distribution, Common service infrastructure, other key support				
	layers				
II	EDI to e-commerce: EDI - Origin , System approach and communication approach , Migration to open EDI-Approach , Benefits ,	12			
	Mechanics, E-com with WWW/Internet. E-Government- Concepts,				
	Applications of G2C, G2B, G2G				
TIT	Electronic communication PC and networking, Network topologies and communication media, E-mail, OSI and TCP/IP Models, LAN, WAN,	12			
III	MAN Internetworking — Bridges and gateways, Internet Vs Online services,				
	Open vs. Closed Architecture, Controlled contained Vs Uncontrolled				

	contained, Metered Pricing Vs Flat pricing, Innovation Vs Control.	
IV	Electronic communication PC and networking, Network topologies and communication media, E-mail, OSI and TCP/IP Models, LAN, WAN,	12
	MAN Internetworking — Bridges and gateways, Internet Vs Online services,	
	Open vs. Closed Architecture, Controlled contained Vs Uncontrolled	
	contained, Metered Pricing Vs Flat pricing, Innovation Vs Control.	
V	Security and Application Need of computer security, Specific intruder approaches, Security strategies, Cryptography, Public key encryption, Private key encryption, Digital signatures	12
	Advertising on the internet: Marketing, Creating a website. Electronic	
	publishing issues, EP architecture, EP tools, Web page EP-Baseline issues,	
	Application tools and publishing on the internet.	

#### Textbooks, Reference Books, Other Resources

## Suggested Readings:

- 1."Electronic Commerce" By Ravi Kalakota and Andrew B.Whinston.
- 2. "Web Commerce Technologies Handbok" By Daniel Minoli & Emma Minoli
- 3. "E-Commerce" By Dr. Varinder Bhatia
- 4. "Promise OfE-Governance" By M P Gupta Book published by M.P. Granth Academy, Bhopal

## Suggested Digital Platforms, Web links

- 1. littps://onlinecourses.nptel.ac.in/nocl9 inq54/preview
- 2. littps://onliriecouises.swayain2.ac.in/cecl9 cm01/prev, iew
- 3. <u>littps://www.couiseia.org/lectuie/innovative-entrepreneur/e- commeice-the-internet-as-a-selling-platform-DYSNa</u>
- 4. <a href="https://www.mooc-list.corn/tags/e-cominerce-inarket">https://www.mooc-list.corn/tags/e-cominerce-inarket</a>
- 5. https://onlinecourses.swayam2.ac.in/nou21 cm14/pieview
- 6. http://www.mphindigranthacademy.org/

Part D: Assessment and Evaluation				
Suggested Continuous Eva	aluation Methods:			
Maximum Marks:	100			
Continuous Comprehensive	Evaluation (CCE): 40 Marks			
University Exam (UE):	<b>60</b> Marks			
Internal Assessment:	Class Test	20		
Continuous	Assignment/Presentation	20		
Comprehensive		Total Marks: 40		
Evaluation (CCE)				
<b>External Assessment:</b>	Section (A):Short Answer type questions	$04 \times 05 = 20$		
University Exam (UE)				
Time: 03.00 Hours	Section (B): Long Answer Type	$08 \times 05 = 40$		
	Questions			
		Total Marks: 60		

PART A: Introduction					
Program: Di	ploma	Class: III S	EM	Year: II Year	Session: 2022-23
Subject:Con	nputer Application				
1.	Course Code		BCAH 20	06	
2.	Course Title		Web Dev	velopment using P	PHP
3.	Course Type (Co Course/Elective/C Elective/ Vocatio	Generic	Vocation	nal Course	
4. Pre-Requisite (if any)		any)	To study this course, a student must have the basic knowledge of Computer, Internet and simple web page designing using html.		
5.	Course Learning Outcomes(CLO)		<ul> <li>Computer, Internet and simple web page designing using htm</li> <li>Understand the principles of creating an effective web page, including an in-depth consideration of informati architecture.</li> <li>Develop skills in analyzing the usability of a web site.</li> <li>Learn the language of the web: HTML, CSS, JavaScri and PHP.</li> <li>Learn to design and develop dynamic, database-driver web pages using PHP that powers many websites.</li> <li>Be able to embed social media content into web pages</li> </ul>		alyzing the usability of a web site. of the web: HTML, CSS, JavaScript develop dynamic, database-driven P that powers many websites.
6.	Credit Value		3 Credit		
7.	Total Marks		Max. Ma	rks: 100	Min. Passing Marks: 40

	PART B: Content of the Course	
otal No. o	f Lectures(in hours per week): 01 Hours per day	
	Total Lectures: 60 Hours	
Unit	Topics	No. of Lectures
I	Introduction of Internet, Overview of HTML, Designing Web Formusing all HTML controls, Overview of CSS, Using important properties of CSS, Overview of JavaScript, Getting form data using JavaScript, Form data validation using JavaScript.	12
II	PHP: Introduction, WAMP, XAMP, PHP installation, Running method, syntax, comments, variables, variables scope, constants, data types, echo vs print, operators.	12
III	Branching control statements: If, If-else, elseif ladder, nested if-else, switch-case.Looping control statements: while, do-while, for and foreach.Array: Indexed Array, Associative array, multidimensional array, array functions. String, string manipulation functions, math functions.	12

IV	PHP functions: parametrized function, passing values to functions, call by value, call by reference, default arguments, recursion, PHP Form handling: get and post form, handling date and time,	12
V	PHP include and require, file handling, file upload, State management: cookies and session. MySQL Database: Introduction, creating a MySQL database and table, PHP connect and close to MySQL, perform Insert, update, delete and select operation with MySQL table using PHP.	12

Textbooks, Reference Books, Other Resources

## **Suggested Readings:**

- 1. HTML & CSS: The Complete Reference, Fifth Edition by Thomas A. Powell
- 2. Mastering HTML, CSS & Javascript Web Publishing by Jennifer Kyrnin Laura Lemay, Rafe Colburn
- 3. PHP The Complete Reference by Steven Holzner
- 4. Mastering PHP 7 by BrankoAjzele

## Suggestive digital platform web links:

https://www.javatpoint.com/

https://www.w3schools.com/default.asp

 $\underline{https://www.tutorialspoint.com/web\_development\_tutorials.htm}$ 

Part D: Assessment and Evaluation						
Suggested Continuous Evaluation Methods:						
Maximum Marks:	100					
Continuous Comprehensive Evaluat	ion (CCE): 40 Marks					
University Exam (UE):	<b>60</b> Marks					
<b>Internal Assessment:</b>	Class Test	20				
Continuous Comprehensive	Assignment/Presentation	20				
Evaluation (CCE)		Total Marks: 40				
External Assessment:	Section (A):Short Answer type questions	$04 \times 05 = 20$				
University Exam (UE)						
Time: 03.00 Hours	Section (B): Long Answer Type Questions	$08 \times 05 = 40$				
		Total Marks: 60				