GOVT. HOLKAR AUTONOMOUS SCIENCE COLLEGE INDORE (CENTER FOR EXCELLENCE) Academic Year: 2022-2023



Affiliated to Devi Ahilya Vishwavidyalaya, Indore

Syllabus for B.C.A.(III Semester)

Computer Application

(Faculty of Computer Science)

DEPARTMENT OF COMPUTER SCIENCE

B.C.A. III Semester, Department of Computer Science, GHSC, Indore

GOVT. HOLKAR AUTONOMOUS SCIENCE COLLEGE INDORE

Semester Syllabus for Undergraduates (Computer Applications) As recommended by Central Board of Studies of Computer Science and Approved by H E the Governor of M.P. Academic Year: 2022-2023

Class: B.C.A.III Semester (Computer Applications) for Regular Student

	Govt. Holkar (Model Autonomous) Science College, Indore											
	Computer Science Department											
-	Syllabus Session Year: 2022-23											
Programme :Diploma in ApplicationClass :B.C.A. III Semester												
GN			Paper			eory Iarks 10	0]	Prac Max. Ma			
S.No.	Paper	Paper Title	Code	Credits	CCE	Exter. Asses.	Min Marks	Credits	Inter. Asses.	Exter. Asses.	Min. Mark.	Total Credit
1	Core Course	Data Communicati on and Computer Networks	S3-51- I	4	40	60	35	2	40	60	35	6
2	Minor	Internet Applications using Java Programming	S3-51- M	4	40	60	35	2	40	60	35	6
3	Open Elective	E-Commerce	S3-51- O-A	4	40	60	35					4
4.	Open Elective	Organization Behaviour	S3-51- О-В	4	40	60	35					4
5	Vocatio nal	Web Designing - I	S3- 06/51- V	4	40	60	35					4

Part-A Introduction						
Program: Diploma	Class	s: B.C.A. So	emester: III	Session: 2022-23		
Subject: Computer Applications						
Course Code: S3-51-I		Course Title: Data Commu	nication and	l Computer Networks		
Course Type (Core Co Elective/ Generic Elect Vocational):		Core Course				
Pre-requisite (If any):		To study this course, a studer Computers.	nt must have	the basic knowledge of		
Course Learning Outo (CLO)	comes	 to do the following: Demonstrate the Basid Networking Principle Working of Networkii Demonstrate the Sin Networking Protocols Describe, compare at Internet, AM, FM, PM Explain the working of OSI & TCP/IP mod Analyze the Requirer and Select the Most Technologies. Design the Network Problems of the Org 	c Concepts o es, Routing A ng Devices. gnificance, s and Standar nd contrast 1 A and Variou of Layers an del. nents for a G Appropriate k Diagram ganizations w	lgorithms, IP Addressing and Purpose and application of		
Credit value		Theory – 4 Credits				
Total Marks		Max. Marks: 40+60	Min	a. Passing Marks: 35		

B.C.A. III Semester, Department of Computer Science, GHSC, Indore

Part-B: Content of the Course					
No. of Lectures (in hours per week): 2 Hrs. per week					
Total no. of Lectures:60 Hrs.					
Para	Topics	No. of Lectures			
Ι	Network goals and application, Network structure, Network services, Example of networks and Network Standardization. Networking models: centralized, distributed and collaborative. Network Topologies: Bus, Star, Ring, Tree, Hybrid: Selection and Evaluation factors.				
II	Theoretical Basis for Data communication, Transmission media, Twisted pair (UTP, STP), Coaxial Cable, Fiber optics: Selection and Evaluation factors. Line of Sight Transmission, Communication Satellites. Analog and Digital transmission. Transmission and switching, frequency division and time division multiplexing, STDM, Circuit switching, packet switching and message switching.				
III	Brief Overview of LAN (Local Area Network): Classification. Brief overview of Wide Area Network (WAN). Salient features and differences of LAN with emphasis on: Media, Topology, Speed of Transmission, Distance, Cost. Terminal Handling, Polling, Token passing, Contention. IEEE Standards: their need and developments.				
IV	 Open System: What is an Open System? Network Architectures, ISO-OSI Reference Model, Layers: Application, Presentation, Session, Transport, Network, Data Link & Physical. Physical Layer - Transmission, Bandwidth, and Signaling devices used media type. Data Link Layer - : Addressing, Media Access Methods, Logical link Control, Basic algorithms/protocols. 				
V	Network Layer: Routing: Fewest-Hops routing, Type of Service routing, Updating Gateway routing information. Brief overview of Gateways, 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.	15			

Part-C: Learning Resources

Text Books, Reference Books, Other Resources

Suggested Readings:

Textbooks:

- Tannanbaum, A.S.: Computer Networks, Prentice Hall, 1985.processing, Prentice Hall, 1983.
- Black: Computer Networks: Protocols, standords and Interfaces, Prentice Hall International Tannanbaum, A.S.: Computer Networks, Prentice Hall, 1985.processing, Prentice Hall, 1983.
- Fourauzan B., "Data Communications and Networking", 3rd edition, TataMcGraw-HillPublications,

Reference Books:

- Comer D., "Computer Networks and Internet", 2ND Edition, Pearson Education.
- S.K.Basandra& S. Jaiswal, "Local Area Networks", Galgoti Publications
- William Stallings, "Data and Computer Communication".
- Book published by M.P. Granth Academy, Bhopal

Suggestive digital platform web links :

- 1. <u>https://npteI.ac.in/courses/106/105/106105082/</u>
- 2. <u>http://cse.iitkqp.ac.in/-sandipc/courses/cs31006/slides/application layer.pdf</u>
- 3. <u>https://onlinecourses.nptel.ac.in/noc22ee61/Preview</u>
- 4. <u>https://nptel.ac.in/course.html</u>
- 5. https://Pll.harvard.edu/subject/computer-networking
- 6. http://www.mohindiqranthacademy.org/
- 7. <u>http://www.mphindigranthacademy.org/</u>

Suggested equivalent online courses:

NPTEL:

- 1. Demystifying Networking (04 weeks)
- 2. <u>https://www.edx.org//learn/computer-networking</u>

Part-D: Assessment and Evaluation						
Internal Assessment: C Evaluation (CCE): 40 N Shall be based on all Class Test. The divis follows:	farks lotted assignr	nents and	External Assessment: University Exam (UE): 60 Marks Time: 03:00 Hours			
A. Submission of Assignment followed by Presentation			Section A: 03 Very Short Questions			
B. Class Test	Best Two test marks 20 Marks	– Best two	Section B: Four Short Questions (200 Words Each)	04x08 = 32 Marks		
Test I (Written Test)	20 Marks	test Marks				
Test I (Written Test)	20 Marks	40 Marks	Section C: Two	02x11 = 22 Marks		
Test III (Quiz/ Seminar/ Assignment)	20 Marks		Long Questions (500 Words Each)			
Total Internal Assessment (Theory) Marks (A+B)	40 Marks		Total External Evaluation (Theory) Marks (A+B+ C)	60 Marks		

Any remark/ Suggestion: Focus of the course/ teaching should be on developing ability of the student in analyzing a problem, building the logic and efficient code for the problem.

Part-A Introduction							
Program: Diploma	Class: B.C.A.	Semester: II	I Session: 2022-23				
Subject: Computer Applications							
Course Code: S3-51-PI	Course Code: S3-51-PI Course Title: Computer Networks Lab						
Course Type (Core Course/ Elective/ Generic Elective/ Vocational):	Core Course						
Pre-requisite (If any):	Open for All						
Course Learning Outcomes (CLO)	e Learning After Completing this lab course, student will be able to:						
Credit value	Practical- 2 Credits						
Total Marks	Max. Marks: 40+60		Min. Passing Marks: 35				

No. of Lab Practical's (in hours per week): 1 Hrs. per week					
Fotal no. of Labs: 30 Hr					
Suggestive list of Practical's	No. of Labs.				
 1. Study of UTP network cable: Study the Color code of UTP cable Categories of UTP n/w cable Shielding of n/w cable Electricity interference with n/w cable Maximum Length for which data cable can be Crimping of RJ45 connector and Punching of Penta scanning of cabling work Rule of UTP laying 2. Knowledge of Structured Cabling and its compon Information outlet with box Network Rack (4U, 6U, 9U, 12U, 24U, 24U, Patch Panel Rack Management 3. Study of Optical Fiber Cable Different cores of OFC (6 core, 12, 24 core) Multimode & Single mode OFC cable Shielding of OFC Splicing/Termination of OFC OTDR Testing LIU fixing LIU fixing LIU management (pigtail/fiber patchcord) Media Convertor SFP module Rules of OFC laying 4. Use of Tools Crimping Tool Punching Tool Nose plier Wire Stripping and Cable Cutter Multimeter 	f data n/w. cable ents				

 RJ45 RJ11 RJ12 Cat5 Cat6 Network Cable Tester In-Line Coupler (RJ45 F/F) 	
RJ45 NETWORK SPLITTER ADAPTER 2-way.	
5. Configuration / Management of Local Area Network	
• Implementation of file and printer sharing.	
• Installation of ftp server and client.	
• Connect the computers in Local Area Network.	
• Configuring Class A IP Address on LAN Connection in	
Computer LAB and then use following tools:	
Ping, ipconfig, getmac, hostname, nslookup, tracert, arp,	
pathping, systeminfo.	
• Configure static routing using packet tracer software	
• Configure Dynamic routing using packet tracer	
Configure VLAN using Managed switch Device/ Packet tracer	
• Implementation of Subnetting in Class A, B and C	
• Ping between 2 systems using IPv6	
• Configuration of NAT for incoming packet request	
 Configuration of Software / Hardware firewall to block outgoing request to facebook.com 	

Part-C: Learning Resources

Text Books, Reference Books, Other Resources

Suggested Readings:

- Andrew S. Tanenbaum, Nick Feamster, David J. Wetherall, Computer Networks, 6th Edition,(2021), Pearson.
- Michael E Whitman and Herbert I Mattord, Principles of Information Security, Fourth Edition, CENGAGE Learning, 6th Indian Reprint.
- Books published by M.P. Hindi Granth Academy, Bhopal

Reference Books:

- Hacking Exposed, Stuart McClure, Joel Scrambray, George Kurtz, TMH.
- Computer Security Art and Science, Matt Bishop, Pearson/PHI.

Suggestive digital platform web links :

- 1. https://www.edx.org/learn//computer-networking
- 2. http://www.mphindigranthacademy.org/

Suggested equivalent online courses:

1. <u>https://nptel.ac.in/courses/106/105/106105081/</u>

Part-D: Assessment and Evaluation					
Internal Assessment (A):	40 Marks				
Lab Record / Class interaction/ Quiz	15 Marks				
Attendance in the Lab	05 Marks				
Assignments (Industrial Training (10 hours) / Mini Project (Project Demo + Report))	20 Marks				
End Semester External Evaluation (B):	60 Marks				
Viva Voce on Practical	10 Marks				
Practical Record File	10 Marks				
Experiments	40 Marks				
Total Marks (A+B)	100 Marks				

	Part-A Introduction						
Program: Diploma	Class	:: B.C.A.	Semest	er: III	Session: 2022-23		
Subject: Computer Applications							
Course Code: S3-51-M		Course Title: Internet App	licatio	ns using Jav	a Programming		
Course Type (Core Co Elective/ Generic Elect Vocational):		Minor					
Pre-requisite (If any):		To study this course, a student must have basic knowledge of Object- Oriented Programming.					
run, and test sim			velopme oject-ori ntary m ems. va progr	ent environme ented Java pr nodifications t am.	ent to write, compile,		
Credit value		Theory – 4 Credits					
Total Marks		Max. Marks: 40+60		Min. Passing	g Marks: 35		

	Part-B: Content of the Course						
No. of Lectures (in hours per week): 2 Hrs. per week							
Total no. of Lectures:60 Hrs.							
Para	Topics						
I	 The Java Environment: History and features ofjava, C++ Vs java,OOPs concept, how java works, the concept of PATH and CLASS PATH, A simple program, its compilation and execution, JAVA Program Structure, Java Virtual Machine concepts, java platform overview, Primitive data types, variables and constants, operators, expression, statement-branching, looping and jumping, labeled statements. Object Oriented Programming in Java: Classes, objects and methods: defining a class, adding variables and methods, creating objects, constructor, Instances, field and methods initialization by constructors, Copy constructor, memory allocation and garbage collection in java keywords, access methods Arrays, String and String buffer classes, Wrapper classes, using the JDK tools. 	10					
Π	 Inheritance: Inheritance basics, Super class, Sub-class, Method overloading, abstract classes. Interfaces: Defining an interface, implementing & applying interfaces, variables in interfaces, extending interfaces. Multithreading and Exception Handling: Basic idea of multithreaded programming; The lifecycle of a thread, Creating thread with the thread class and runnable interface, Thread synchronization, Thread scheduling. Basic idea of exception handling: The try, catch and throw, throws, finally. 	14					
III	 Applet programming : Local and Remote Applets, Applet Vs Application, creating and executing java applets, inserting applets in a web page, java security, passing parameter to applets, Aligning the Display, HTML Tags & Applet Tag, Getting Input from User. The AWT: The class hierarchy of window fundamentals; The basic user interface components Label, Button, Check Box, Radio Button, Choice menu, Text area, Scroll list, Scroll bar; Frame; Layout managers-flow layout, Grid layout Border layout, Card layout. 	12					
IV	The Java Event Handling Model: Java's event delegation model ignoring the event, Self-contained events, Delegating events, The event class hierarchy, The relationship between interface, methods called, parameters and event source; Adapter classes, Event classes action Event, Adjustment Event, Container	12					

	Event, Focus Event, Item Event, Event, Mouse Event, Text Event, Window Event. Networking-basics, networking classes and interfaces, using java.net package, TCP/IP and datagram programming.	
V	Input/ Output: Exploring Java I/O, Directories, stream classes, The Byte Stream: Input stream, output stream, file input stream, file output stream, print stream, Random access file, the character streams, Buffered reader, buffered writer, print writer, serialization. JDBC: JDBC-ODBC bridge, The connectivity model, The driver manager, Navigating the result set object contents, java, sql Package, The JDBC exception classes, Connecting to Remote database.	12

Part-C: Learning Resources

Text Books, Reference Books, Other Resources

Suggested Readings:

Textbooks:

- Schildt java Complete Reference TMH
- Das Rashmikanta Core Java, IE, Vikas
- Bansal Nitin, AjitKuinar, A Simplified approach to Java Programming , KALYAN1
- Naughton&Schildt "The Complete Reference Java 2", Tata McGraw Hill
- Deitel "Java- How to Program:" Pearson Education, Asia
- Horstmann& Cornell "Core Java 2" (Vol I & II), Sun Microsystems
- lvanBayross "Java 2.0" : BPB publications
- Ivor Horton's "Beginning Java 2, JDK 5 Ed., Wiley India.
- Book published by M.P. Granth Academy, Bhopal

Suggestive digital platform web links :

- 1. <u>https://www.yoiitube.com/watch?v=CFD9EFcNZTO</u>
- 2. <u>https://www.youtube.cont/watch?m—7WhnYwoBY24</u>
- 3. <u>http://www.mphindigranthacademy.org/</u>

Suggested equivalent online courses:

S.No.	Online Course	Duration	Platform
1	Programming in Java https://Youtu.be/IdlfJY90GY	12 weeks	NPTEL
2	The Complete Java Certification Course https://www.udemv.com/course/master-nractical-jaya- development/	Self-paced	Udemy

B.C.A. III Semester, Department of Computer Science, GHSC, Indore

	Part-D	: Assessment	t and Evaluation	
Internal Assessment: C Evaluation (CCE): 40 M Shall be based on all Class Test. The divis follows:	/larks lotted assign	ments and	External Assessmen (UE): 60 Marks Time: 03:00 Hours	nt: University Exam
A. Submission of Assignment followed by Presentation			Section A: 03 Very Short Questions	03x02 = 06 Marks
B. Class Test	Best Two test marks 20 Marks	— Best two	Section B: Four Short Questions (200 Words Each)	04x08 = 32 Marks
Test I (Written Test)	20 Marks	test Marks		
Test I (Written Test)	20 Marks	40 Marks	Section C: Two	02x11 = 22 Marks
Test III (Quiz/ Seminar/ Assignment)	20 Marks		Long Questions (500 Words Each)	
Total Internal Assessment (Theory) Marks (A+B)	40 Marks		Total External Evaluation (Theory) Marks (A+B+ C)	60 Marks

Any remark/ Suggestion: Focus of the course/ teaching should be on developing ability of the student in analyzing a problem, building the logic and efficient code for the problem.

	Part-A Introduction					
Program: Diploma	Class: B.C.A.	Semester: III	Session: 2022-23			
	Subject: Computer Applications					
Course Code: S3-51-PM	Course Code: S3-51-PM Course Title: Java Programming Lab					
Course Type (Core Course/ Elective/ Generic Elective/ Vocational):						
Pre-requisite (If any):	To study this course, a student must have basic logical and analytical skills.					
Course Learning Outcomes (CLO)						
Credit value	Practical- 2 Credits					
Total Marks	Max. Marks: 40+60		Min. Passing Marks: 35			

	Part-B: Content of the Course		
No. of Lab	Practical's (in hours per week):	2 Hrs. per	week
Total no. o	of Labs:	30 Hrs.	
	Suggestive list of Practical's		No. of Labs
(Using	g any Text editor: Notepad/Eclipse/Netbeans/Sublime etc.)		30
1.	Write a program to print numbers in words using Nested if a Case.	and Switch	
2.	Write a programs called Pass Fail which prints "PASS" if th "mark" is more than or equal to 50; or prints "FAIL" otherw		
3.	Write a program called Odd Even which prints "Odd Number" variable "number" is odd, or "Even Number" otherwise.	er" if the int	
4.	Write a Program to find sum & average of 10 no. using array	ys.	
5.	Write a program to display reverse of a digit no. using array	•	
6.	Write a program to display grade according to the marks obtained student.	tained by the	
7.	Find the factorial of number if number is given by user risin argument.	g command line	
8.	Write a program to print Fibonacci series.		
9.	Write a program to display tables from 2 to 10.		
10	Write a program to take an input from tlser and check given prime or not.	number is	
11	. Write a program to implement method overriding.		
12	2. Write a program to convert given str ing into. Uppercase and get the length of string Using array	d lowercase and	
13			
14	 Write a program to overload volume method to find out volu cuboid. 	ume of cube and	
15	5. Write a program to design a class using abstract Methods an	d Classes.	
	5. Write a program to implement multiple inheritance by using		
17	Write a program to create a package of your name and use the class	hat package in a	
18	 Write a program to implement parameterized constructor wi argument. 	th default	

19. Define an exception called "Marks out of Bound" exception that is thrown	
if the entered marks are greater than 100.	
20. Develop a simple real life application to illustrate the use of multithreading.	
21. Design an applet that takes three numerical values as input from the user	
and then displays the largest of those three numbers on the screen	

Part-C: Learning Resources

Text Books, Reference Books, Other Resources

Suggested Readings:

- Laughton & Sehildt "The Complete Reference Java 2", Tata McGraw Hill
- Java EE 6 for Begirlners, Sharanain Shah, Vaisliali Shah, Slur off Publishers and Distributors.

Reference Books:

- Java EE Project using EJB 3, GPA and struts 2 for beginners, Smah, SPD
- .lava Programming A practical Approach, C Xavier, McGraw Hill
- Java Server faces : A practical Approach for beginners, B M Harwaiii, Eastern Economy Edition (PHI).
- Advanced Java Technology, Savaliya, Dreaintech.

Suggestive digital platform web links :

- 1. <u>https://www.youtube.com/watch?v=CFD9EFcNZTO</u>
- 2. <u>https://www.Youtube.com/watch?v=7WhnYwoBY24</u>

Suggested equivalent online courses:

S.No.	Online Course	Duration	Platform
1	Programming in Java https://Youtu.be/IdlfJY90GY	12 weeks	NPTEL
2	The Complete Java Certification Course <u>https://www.udemv.com/course/master-nractical-jaya- development/</u>	Self-paced	Udemy

Part-D: Assessment and Evaluation				
Internal Assessment (A):	40 Marks			
Lab Record / Class interaction/ Quiz	15 Marks			
Attendance in the Lab	05 Marks			
Assignments (Industrial Training (10 hours) / Mini Project (Project Demo + Report))	20 Marks			
End Semester External Evaluation (B):	60 Marks			
Viva Voce on Practical	10 Marks			
Practical Record File	10 Marks			
Experiments	40 Marks			
Total Marks (A+B)	100 Marks			

	Part-A Introduction					
Program: Diploma	Class	: B.C.A.	Session:2022-23			
		Subject: Computer Application	ons			
Course Code: S3-51-0	O-A	Course Title: E-Commerce				
Course Type (Core Course/ Elective/ Generic Elective/ Vocational):		Open Elective				
Pre-requisite (If any): Open for All						
Course Learning Outco (CLO)	Course Learning Outcomes (CLO) On the completion of this course student will be able – 1. To learn the fundamentals of E-Commerce and its process. 2. To understand the role of E- commerce in the present scenarial along with the concepts of security and its applications. 3. To gain knowledge of e-commerce business needs and resource and match to technology considering human factors and budg constraints. 4. To apply knowledge of changing technology on tradition business models and strategy. 5. To have skills to communicate effectively and ethically usi electronic communication.			e and its process. n the present scenario applications. ss needs and resources han factors and budget nology on traditional		
Credit value		Theory – 4 Credits				
Total Marks		Max. Marks: 40+60 Min. Passing Marks: 35				

Part-B: Content of the Course					
No. of I	No. of Lectures (in hours per week): 2 Hrs. per week				
Total no. of Lectures:60 Hrs.					
Para	Topics				
I	Introduction: Brief history of e-commerce ,Types , Advantages & Disadvantages of e-commerce , Elements of e-commerce , Principles of e-commerce , Messaging and Information distribution , Messaging and information distribution , Common service infrastructure , other key support layers.	09			
II	EDI to e-commerce: EDI - Origin , System approach and communication approach , Migration to open EDI-Approach , Benefits , Mechanics , E-com with WWW/Internet. E-Government- Concepts, Applications of G2C, G2B, G2G.	09			
III	Electronic communication : PC and networking , Network topologies and communication media , E-mail , OSI and TCP/IP Models , LAN, WAN, 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.	15			
IV	WWW & Electronic Payment System: Applications - what is web, Why is the Web such a hit, The Web and E-Com, Concepts & Technology -Key concepts, Web Software development Tools. Electronic payment system-Overview, Electronic or digital cash, Electronic Checks, Online credit card based system, other Engineering financial instruments, Consumer legal and Business issues	12			
V	Security and Application: Need of computer security, Specific intruder approaches, Security strategies, Cryptography, Public key encryption, Private key encryption, Digital signatures 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.	15			

	Part-C: Learning Resources					
	Text Books, Reference Books, Other Resources					
Sugge	sted Readings:					
•	"Electronic Commerce" By Ravi Kalakota and Andrew B. Whinston.					
•	"Web Commerce Technologies Handbok"By Daniel Minoli& Emma Minoli					
•	"E-Commerce " By Dr. Varinder Bhatia					
٠	"Promise OfE-Governance" By M P Gupta					
•	Book published by M.P. Granth Academy, Bhopal					
Sugge	estive digital platform web links :					
1.	https://onlinecourses.nptel.ac.in/nocl9inq54/preview					
2.	https://onlinecourse.swayain2.ac.in/cecl9cm01/preview					
3.	https://www.couiseia.org/lecture/innovative-entrepreneur/e-commeice-the-internet-as-a-selling-					
pla	atform-DYSNa					
4.	https://www.mooc-list.coin/tags/e-commerce-market					
5.	https://onlinecourses.swayam2.ac.in/nou21cm14/preview					
6.	http://www.mphindigranthacademy.org/					

	Part-D: Assessment and Evaluation					
Internal Assessment: C Evaluation (CCE): 40 M Shall be based on all Class Test. The divis follows:	farks lotted assignn	nents and	External Assessmer (UE): 60 Marks Time: 03:00 Hours	nt: University Exam		
A. Submission of Assignment followed by Presentation			Section A: 03 Very Short Questions	03x02 = 06 Marks		
B. Class Test	Best Two test marks 20 Marks	- Best two test Marks	Section B: Four Short Questions (200 Words Each)	04x08 = 32 Marks		
Test I (Written Test)	20 Marks					
Test I (Written Test)	20 Marks	40 Marks	Section C: Two	02x11 = 22 Marks		
Test III (Quiz/ Seminar/ Assignment)	20 Marks		Long Questions (500 Words Each)			
Total Internal Assessment (Theory) Marks (A+B)	40 Marks		Total External Evaluation (Theory) Marks (A+B+ C)	60 Marks		

Any remark/ Suggestion: Focus of the course/ teaching should be on developing ability of the student in analyzing a problem, building the logic and efficient code for the problem.

		Part-A Introduction		
Program: Diploma	Class	: B.C.A.	Semester: III	Session:2022-23
		Subject: Computer Application	ons	
Course Code: S3-51-O-B Course Title: Organization Behaviour				
Course Type (Core Course/ Elective/ Generic Elective/ Vocational):Open Elective				
Pre-requisite (If any):		Not Required		
Course Learning Outco (CLO)	omes	 After the completion of this cour following: Understand the effect organizational work-life. Understand perspective in dianover the section of the section	of interpersona iverse cultural er f organizational	l behaviour in an nvironment.
Credit value		Theory – 4 Credits		
Total Marks		Max. Marks: 40+60	Min. Passin	g Marks: 35

Part-B: Content of the Course				
No. of Lectures (in hours per week): 2 Hrs. per we				
Total no. of Lectures:60 Hrs.				
Para	Topics	No. of Lectures		
Ι	Concept of Organizational Behavior, Evolution of OB Contributing Disciplines to Organizational Behavior; Framework of OB.	12		
II	Challenges and opportunities in the field of OB. Goals & its determinants Organization Behaviour models.	12		
III	Individual Behaviour, Personality, Perception, Social Perception and Impression Management, Attitude-characteristics, components, formation and measurement, Values, Learning and Re-enforcement.	12		
IV	Motivation:- meaning types and important elements Theories of motivation, Attitudes and values: Concept, factors, significance and theories.	12		
V	Leadership- Concepts and Theories of Leadership, Qualities of a good Leader. Group Dynamics- group formation, Nature of groups, Types of Group, Group Member Resources, Reasons of joining groups, Functions of group within organization.	12		

Part-C: Learning Resources

Text Books, Reference Books, Other Resources

Suggested Readings:

Textbooks:

- Udai Pareek, Understanding Organization Behaviour, 3rd Ed., Oxford Unversity press, 2011 Robbins S.P., Organizational Behaviour, 7th ED., New Delhi, PHI, 1996
- Huse, FE and Cunnings T G, Organization Development and Change, 3rd ed., New York. West, 1985
- Shekcharam Uma, OrganizationalBehaviour, Text & cases, New Delhi THM, 1989.
- Singh Dalip, Emotional Intelligence at work, Response Books, Sage Publication, Delhi 2001.
- Book published by M.P. Granth Academy, Bhopal

Reference Book:

- Luthans Fred., "Organizational Behaviour", McGraw Hill.
- Hellriegel, Slocum and Woodman, Organizational Behavior, South-Western, Thomson Learning, 9th edition, 200 I.
- Behavior in Organizations, Jerald Greenberg, 8ih ed, Pearson Education.
- Arnold, John, Robertson, Ivan t. and Cooper, Cary, I., "Work psychology: understanding human behavior in the workplace", Macmillan India Ltd., Delhi.
- Dwivedi, R. S., "Human relations and Organizational Behaviour: a global perspective", Macmillan India Ltd., Delhi.

Suggestive digital platform web links :

- 1. <u>https://www.coursera.org/courses?query-economics</u>
- 2. https://www.mooc-list.com/tags/economics
- 3. https://www.coursera.org/learn
- 4. https://ocw.mit.edu/courses
- 5. <u>https://nptel.ac.in/courses/macr_oeconomics</u>
- 6. https://nptel.ac.in/courses/ManagerialEconomics
- 7. <u>http://www.mphindigranthacademy.org/</u>

	Part-D	: Assessment	t and Evaluation	
Internal Assessment : Continuous Comprehensive Evaluation (CCE): 40 Marks Shall be based on allotted assignments and Class Test. The division of marks is as follows:			External Assessment: University Exam (UE): 60 Marks Time: 03:00 Hours	
C. Submission of Assignment followed by Presentation			Section A: 03 Very Short Questions	03x02 = 06 Marks
D. Class Test	Best Two test marks 20 Marks	– Best two	Section B: Four Short Questions (200 Words Each)	04x08 = 32 Marks
Test I (Written Test)	20 Marks	test Marks		
Test I (Written Test)	20 Marks	40 Marks	Section C: Two	02x11 = 22 Marks
Test III (Quiz/ Seminar/ Assignment)	20 Marks		Long Questions (500 Words Each)	
Total Internal Assessment (Theory) Marks (A+B)	40 Marks		Total External Evaluation (Theory) Marks (A+B+ C)	60 Marks

Any remark/ Suggestion: Focus of the course/ teaching should be on developing ability of the student in analyzing a problem, building the logic and efficient code for the problem.

Part-A Introduction				
Program: Diploma	Class: B.Sc./B.C.A.	Semester: III	Session:2022-23	
Course Code: S3-06/51- V	Course Title: Web Deigning - I			
Course Type (Core Course/ Elective/ Generic Elective/ Vocational):	Vocational			
Pre-requisite (If any):	Open for All			
Course Learning Outcomes (CLO)	 After studying this Course the student will be able to – Understanding of Internet & its terminology Code a handful of useful HTML & CSS examples. Build semantic, HTML & CSS web page. Add Interactivity to a Web Page. 			
Job Role	Web Designer / Front End Developer/ Creative Ad Designer			
Job Description	 Web designers develop functional and appealing web pages, websites, web applications, online advertisements for individuals, businesses and government agencies to establish their online presence. They use knowledge of computer programming and graphic design to create websites that meet client needs. Career Opportunities – Typical employers of web designers are – Software companies IT consultancies Specialist web design companies Large corporate organizations Any organization that uses computer systems Self-employment/freelance work is often possible for individuals with appropriate experience. Vacancies are advertised online, by career services and by recruitment agencies. 			
Credit value	Theory – 4 Credits			
Total Marks	Max. Marks: 40+60	Min. Passin	g Marks: 35	

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Part-B: Content of the Course				
No. of Lectures (in hours per week): 2 Hrs. per week				
Total no	. of Lectures: 60 Hrs.			
Unit	Topics	No. of Lectures		
I	Internet: Introduction to Internet, Intranet & Extranet, History of Internet, Advantages & Disadvantages of Internet, Application of Internet. WWW, URL, Domain Name, Basic concepts, Internet Addressing, Web Server, Web Browser. Website, Web page overview, Home Page, Elements of a web page. Types of Sites: personal sites, small business sites, large business sites, online business sites, Educational institution sites, Government sites. Software for Web Designing - Notepad/Notepad++, Dreamweaver, Blue Griffon, Net beans, Sea Monkey, Word press, Sublime.	12		
II	Introduction to HTML: HTML Tags and Attributes, HTML Basic Tags, Formatting Tags: <h1><h6>, ,<tt>,<pre>, , <hr/>, , ,<i>,<u>,,, HTML Color Coding, Div and Span Tags for Grouping. Lists: Unordered Lists, Ordered Lists, Definition list. Images: Image and Image Mapping Hyperlink: URL - Uniform Resource Locator, URL Encoding. Table: , , , , <caption>, <thead>, , <tfoot>, <colgroup>, <col/>. Attributes Using Iframe as the Target. Form: <input/>, <textarea>, <button>, <select>, <label> Headers: Title, Base,
Link, Styles, Script HTML Meta Tag, XHTML, HTML Deprecated Tags &
Attributes.</td><td>12</td></tr><tr><td>III</td><td>CSS: Introduction, Features and benefits of CSS, CSS Syntax, Types of CSS:
Inline, Internal and External Style Sheet using <link>, Multiple Style Sheets,
Value Lengths and Percentages.
Selectors: ID Selectors, Class Selectors, Grouping Selectors, Universal Selector,
Descendant / Child Selectors, Attribute Selectors, CSS – Pseudo Classes.</td><td>12</td></tr></tbody></table></textarea></colgroup></tfoot></thead></caption></u></i></pre></tt></h6></h1>			

IV	Color Background Cursor: background-image, background-repeat, background position, CSS Cursor Text Fonts: color, background-color, text-decoration, text-align, vertical-align, text-indent, text-transform, white-space, letter-spacing, word-spacing, line-height, font-family, font-size, font-style, font-variant, font-weight.	12
V	Lists Tables: list-style-type, list-style-position, list-style-image, list-style, CSS Tables (border, width & height, text-align, vertical-align, padding, color) Box Model: Borders & Outline, Margin & Padding, Height and width, CSS Dimensions. Display Positioning: CSS Visibility, CSS Display, CSS Scrollbars, CSS Positioning (Static Positioning, Fixed Positioning, Relative Positioning, Absolute Positioning), CSS Layers with Z-Index. Floats: The float Property, The clear Property, The clearfix Hack.	12

Part-C: Learning Resources

Text Books, Reference Books, Other Resources

Suggested Readings:

- Jon Duckett, HTML And CSS: Design And Build Websites, Wiley
- Jon Duckett, JavaScript And Jquery: Interactive Front-End Web Development, Wiley
- Jennifer Niederst Robbins, Learning Web Design: A Beginner's Guide To HTML, CSS, JavaScript, And Web Graphics, O'reilly.
- Steven M. Schafer, Html, XHTML, And CSS Bible, Wiley
- Felke-Morris, Basics Of Web Design: Html5 & Css3, 5th Edition, Pearson Education, 2019.
- Felke-Morris, Web Development & Design Foundations With Html5, 10th Edition, Addison Wesley, 2020.
- Ian Pouncey, Richard York, Beginning CSS: Cascading Style Sheets For Web Design, Wiley India.
- Thomas A Powell, The Complete Reference To Html
- Lee Anne Philips, Using Html, PHI
- C. Xavier, World Wide Web Design With Html,
- Xavier C, Web Technology And Design, New Age International
- Laura Lemay, Mastering Html, CSS & JavaScript Web Publishing
- Dt Editorial Services, Html 5 Black Book Covers CSS 3, JavaScript, XML, XHTML, AJAX, PHP and Jquery, DreamTech Press Publication

Suggestive digital platform web links :

- <u>https://www.w3schools.com/</u>
- <u>https://spoken-tutorial.org/</u>
- https://www.doc-developpement-durable.org/file/Projets-informatiques/cours-&-manuels
- http://www.nematrian.com/Pages/HTMLCSSJSCombined.pdf (PDF: 514 pages)
- https://www.daoudisamir.com/references/vs ebooks/html5 css3.pdf (PDF: 681 pages)

Suggested equivalent online courses:

- https://nptel.ac.in/courses/106/105/106105084/ (NPTEL Course: Internet Technology Part of the Course)
- https://onlinecourses.swayam2.ac.in/aic20 sp11/preview (HTML and CSS)
- https://www.coursera.org/learn/html-css-javascript-for-web-developers#syllabus (HTML, CSS, and JavaScript for Web Developers)
- https://www.classcentral.com/course/html-css-javascript-for-web-developers-4270 (HTML, CSS, and JavaScript for Web Developers)
- <u>https://www.classcentral.com/course/duke-programming-web-4256</u>
- https://www.coursera.org/learn/duke-programming-web (Programming Foundations withJavaScript, HTML and CSS)

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