PartA:Introduction				
Program: Degree		Class: UG	Year: III	session:2023-2024
Subject: Computer Applications				
1.	Course Code	S3-COAP2T		
2.	Course Title	Internet and its Applications (theory)		
3.	Course Type	Minor		
4.	Pre-requisite (If any)			
5.	Course Learning Outcomes (CLO)	On successful completion of this course, the students will be able to: • Understand the features and applications of Internet • To trouble shoot day to day problems with internet • to Understand basics of networking and web designing to use internet effectively for official and domestic applications • to structure a web page and its content • to build ecommerce websites		
6.	Credit Value	Theory-4		
7.	Total Marks	Max. Marks: 30+70	Min. Passing Marks: 35	

PartB:Content Of the Course
Internet and its Applications

TotalNo.ofLectures =60(inhours per week):2-0-0

Unit	Topics	No. of Lectures (1 hour each)
I	Evolution of Internet, TCP/IP: addressing and routing.Internet applications: FTP, Telnet, Email, Chat.World Wide Web: HTTP protocol. Internet Concept of Internet Applications of Internet Connecting to the Internet Troubleshooting Communication using the Internet Concept of Internet; Applications of Internet, Understanding of Internet of things; connecting to internet; What is ISP; Knowing the Internet; Basics of internet connectivity related troubleshooting.	12
II	Basics of Computer networks; LAN, WAN; Network Models: Client/ server network and Peer-to-peer network, OSI, TCP/IP, layers and functionalities. Transmission Media: Introduction, Guided Media: Twisted pair, Coaxial cable, Optical fiber. Unguided media: Microwave, Radio frequency propagation, Satellite. LAN Topologies: Ring, bus, star, mesh and tree topologies. Network Devices: NIC, repeaters, hub, bridge, switch, gateway and router.	12

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III	Introduction Objectives World Wide Web (WWW) Web Browsing Softwares Popular Web Browsing Softwares Search Engines Popular Search Engines / Search for content Accessing Web Browser Using Favorites Folder Downloading Web Pages Printing Web Pages Understanding URL Surfing the web Using e-governance website Basics of E-mail What is an Electronic Mail Email Addressing Using E-mails Opening Email account Mailbox: Inbox and Outbox Creating and Sending a new E-mail Replying to an E-mail message Forwarding an E-mail message Sorting and Searching emails Document collaboration Instant Messaging and Collaboration Using Instant messaging Instant messaging providers	**12**
IV	HTML5 syntax, validation, elements, variety of input elements and attributes, Forms and Form widgets/elements (menus, sliders, etc.), tables, images, hyperlinks, directory navigation notation, div and span elements, HTML5 semantic elements like headers. Browser variations. Use of AFS environment and Secure Shell.Use of high-level HTML editorslike Expression Web for implementation and self-instruction.	**12**
V	PHP for server-side scripting and database interaction, syntax, interaction with HTML Forms, scripts as intermediaries to background databases. Design and implementation of programmer defined functions. Embedded SQL queries, use in 3-tier applications, diagnosing errors, syntax checking tools, debugging. PHP versus MySQL versus HTML errors in PHP scripts. HTML wrappers for database content. Miscellaneous other PHP features. Brief introduction to HTTP, domain names, ports, TCP connections, connecting to a remote host in telnet, UNIX terminal window and commands, GET and POST commands, HTTP message headers and message bodies, understanding the usefulness of HTTP headers.	**12**
	Part C: Learning Resources **Text Books, Reference Books, Other resources**	
	Suggested Readings: • Andrew S. Tanenbaum, David J. Wetherall Computer Networks (5th Edition),PHI, 2010 • B. A. Forouzan, Data Communication and Networking , TMH,2003. • D.R. Brooks, An Introduction to HTML and Javascript for Scientists and Engineers, Springer • HTML A Beginner's Guide, Tata McGraw-Hill Education, 2009. • J. A. Ramalho, Learn Advanced HTML 4.0 with DHTML, BPB Publications, 2007 • मध्य प्रदेश हिन्दी ग्रंथ अकादमी की पुस्तकें। **Suggested Digital Platforms,Weblinks** • https://www.javatpoint.com/internet	

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	• https://www.tutorialspoint.com/basics_of_computer_science/basics_of_computer_science_internet.htm • https://www.tutorialspoint.com/html5/index.htm • https://www.tutorialspoint.com/http/index.htm	

Part D:Assessment and Evaluation

Suggested Continuous Evaluation Methods:

Maximum Marks : 100

Continuous Comprehensive Evaluation (CCE) : 30 Marks University Exam (UE): 70 Marks

Internal Assessment : Continuous Comprehensive Evaluation (CCE)	Class Test Assignment/Presentation	30
External Assessment : University Exam Section Time : 03.00 Hours	**Section(A)** : Very Short Questions **Section (B) :** Short Questions **Section (C)** : Long Questions	70

Any:

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PartA:Introduction				
Program: Degree		**Class: UG**	**Year: III**	**session:2023-2024**
Subject: Computer Applications				
1.	**Course Code**	S3-COAP2P		
2.	**Course Title**	**Internet and its Applications (Practicals)**		
3.	**Course Type**	**Minor**		
4.	**Pre-requisite (If any)**	-		
5.	**Course Learning Outcomes (CLO)**	**On successful completion of this course, the students will be able to:** • **Understand the features and applications of Internet** • **To trouble shoot day to day problems with internet** • **to Understand basics of networking and web designing to use effectively internet for official and domestic applications**		
6.	**Credit Value**	**2**		
7.	**Total Marks**	**Max.Marks:100**	**Min.PassingMarks:35**	

PartB:Content Of the Course
Internet and its Applications (Practicals)

Total No .of Lectures =30 lectures each of 2 hours duration (in hours per week):2-0-0

1. Understanding by demonstrating various Guided Media; Twisted pair, Coaxial cable, Optical fiber.
2. Understanding by demonstrating Network Devices such as NIC, repeaters, hub, bridge, switch, gateway and router.
3. Understanding and demonstrating various LAN Topologies.
4. Understanding of basic trouble shooting related to Internet connectivity.
5. Hands on working with internet and its applications(understanding of Web Browsing Softwares and email)
6. Understanding of various security features while working on Internet.
7. Create HTML document with following formatting – Bold, Italics, Underline, Colors, Headings, Title, Font and Font Width, Background, Paragraph, Line Brakes, Horizontal Line, Blinking text as well as marquee text.
8. Create HTML document with Ordered and Unordered lists, Inserting Images, Internal and External linking
9. Learn to use UNIX on Windows.
10. Write a program to print "Hello PHP" using variable.

Part C: Learning Resources
Text Books, Reference Books, Other resource

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Suggested Readings:

- Andrew S. Tanenbaum, David J. Wetherall Computer Networks (5th Edition),PHI, 2010
- B. A. Forouzan, Data Communication and Networking , TMH,2003.
- D.R. Brooks, An Introduction to HTML and Javascript for Scientists and Engineers, Springer
- HTML A Beginner's Guide, Tata McGraw-Hill Education, 2009.
- J. A. Ramalho, Learn Advanced HTML 4.0 with DHTML, BPB Publications, 2007
- मध्य प्रदेश हिन्दी ग्रंथ अकादमी की पुस्तकें।

Suggested Digital Platforms,Weblinks

- https://www.javatpoint.com/internet
- https://www.tutorialspoint.com/basics_of_computer_science/basics_of_computer_science_internet.htm
- https://www.tutorialspoint.com/html5/index.htm
- https://www.tutorialspoint.com/http/index.htm

Part D:Assessment and Evaluation

Suggested Continuous Evaluation Methods:

Internal Assessment	Marks	External Assessment	Marks
Class Interaction /Quiz	30	Viva Voce on Practical	70
Attendance		Practical Record File	
Assignments (Charts/ Model Seminar / Rural Service/ Technology Dissemination/ Report of Excursion/ Lab Visits/ Survey / Industrial visit)		Table work / Experiments	
	Total Marks : 100		

Any remarks/ suggestions:

Dr. Goswami