SUBJECT: UNDERGRADUATE COURSE CURRICULUM2023-24

P	AR	T-A: Introdu	ction	CURRICUL	JM2023	24		
		am: Diploma Co		Class: B. Sc. Semester-IV	Year:2023	Session	1:2023-2024	
1 Course Code			CSSE-2T					
2	Co	urse Title	Internet Technologies					
3	Co	urse Type	Discipline Elective Course (DSE)					
4	Pre	requisite (if, any)	quisite (if, any) As per Government norms / Institutional scheme					
5		Course Learning. Outcomes (CLO)		After completion of this course, the students will be able to: To understand the terms related to the internet and how the internet is changing the world. To understand how computers are connected to the internet and demonstrate the ability to use the world wide web. Demonstrate an understanding of and the ability to use electronic mail and other internet-based services. Understand the design principles of web pages and how they are created.				
6	Cre	> To develop an ability to create basic web pages with HTML. redit Value 04 (03 Theory & 01 Practical)						
7		tal Marks	Max. Marks: 100 Min Passing Marks: 40				e: 40	
PA		-B: Content of t			1.222			
		D. Content of t		No. of Teaching-learning - I	Hours-45			
Unit		Topics (Course contents)					No. of Hour	
1		Introduction: Overview, Network of Networks, www, History on internet and www, Intranet, Extranet and Internet. Domain and Sub domain, Address Resolution, DNS, firewalls, web servers and browsers. Search Engine and Web Crawler: Definition, Meta data, Web Crawler, Indexing, Page rank, search engines, Bot. H/w and s/w requirements of internet.						
п		Internet and Routing Protocols: IP Datagram, IPv4 and IPv6. IP Subnetting and addressing: Classful and Classless Addressing. Internet Routing Protocol Routing, Intra and Inter Domain Routing, Unicast and Multicast Routing, Broadcast. Electronic Mail: POP3, SMTP.					12	
I	HTML: Introduction, Editors, Elements, Attributes, Heading, Paragra Formatting, Link, Head, Table, List, Block, Layout, CSS. Form, Frame, Colors, Image. Introduction to Extensible Markup Language (XML) and CGI.					Paragraph.	12	
1	IV PERL: Introduction, Variable, conditional statements, Looping, Basics of JavaScript. Threats: Malicious- code, viruses, Trojan horses, worms; eavesdropping, spoofing modification, denial of service attacks. Network security techniques: Password and Authentication; VPN, IP Security, security in electronic transaction.						10	

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PART-C (CSSE -2T)

Learning Resources: Text Books, Reference Books and Others

Text Books:

- Internet and Internet Engineering, Daniel Minoli, TMH (Latest Edition)
- > HTML The Definite Guide, Chuckmusiano & Bill Kenndy, O Reilly (Latest Edition)

Reference Books:

- Computer Networking A top-down approach featuring the internet, Kurose and Rose, Pearson Education.
- ➤ Internetworking with TCP/IP, vol. 1,2,3 Douglas E. Croner, 4th Edition Pearson Education (PHI).

E-RESOURCES:

- https://faculty.ksu.edu.sa/sites/default/files/computer_networks a_tanenbaum -5th edition.pdf
- https://csc-knu.github.io/sys-prog/books/Andrew%20S.%20Tanenbaum%20-%20Computer%20Networks.pdf

PART - D: Assessment and Evaluation

Suggested Continuous Evaluation Methods: 100 Marks Maximum Marks: 20 Marks Continuous Comprehensive Evaluation (CCE): Semester End Exam (SEE): 80 Marks

Internal Assessment: Class Test: 02 of 10 Marks each Average of the marks obtained in both test (out of 10) and marks obtained in assignment Continuous Assignment: 01 of 10 Marks (out of 10) shall be considered against 20 Comprehensive Marks of Internal assessment Evaluation (CCE)

Paper (Two section - A & B) Semester End Section A: Objective and Short answer type questions : 10 + 10 = 20 Marks Exam (SEE):

Section B: Descriptive answer type questions unit wise : $15 \times 04 = 60$ Marks