MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE, GWALIOR (M.P.)

A Govt. Added UGC Autonomous and NAAC Accredited Institute, Affiliated to R.G.P.V, Bhopal
DEPARTMENT OF ELECTRONICS ENGINEERING

Multiple Mode Teaching Learning Pattern

Name of Course with Code: Embedded System (900105)		Class: B. Tech. III Year	Session: Jan-June 2023

S. No.	Unit	Content to be Covered	Teaching Session	Mode
1.	Unit 1	Overview of Cyber Security	1	Online & Open discussions
2.		Introduction to Cyber Security, Cyber-crime	2	Online & problem solving based learning
3.		Types of Cyber Attacks	3	Online & problem solving based learning
4.		Cyber Vandalism (Hacking), Cyber Stalking, Internet Frauds and Software Piracy	4-6	Online & problem solving based learning
5.	Unit 2	Basics of Internet and Networking	7-8	Online & demonstration based learning
6.		Network Topologies	9	Offline & problem solving based learning
7.		Wired and Wireless networks, E-commerce	10	Offline & problem solving based learning
8.		OSI Model, Internetworking Devices, Firewall.	11-12	Online & demonstration based learning
9.	Unit 3	Security Principles and Attacks	13-14	Online & demonstration based learning
10.		Cryptography, Symmetric key Cryptography	15-16	Online & demonstration based learning
11.		Symmetric key Ciphers	17	Offline & problem solving based learning
12.		Public key cryptography, SSL	18-19	Offline & problem solving based learning
13.	Unit 4	Hacker, Types of Hacker	20-22	Online & demonstration based learning
14.		Malicious Softwares	23	Offline & problem solving based learning
15.	Unit 5	Introduction of Intellectual Property and patent	24	Offline & Open discussions
16.		More About Patent, Trademark, Design	25-26	Offline & problem solving based learning
17.		Geographical Indication, All about copyright, IT act 2000, Digital Crime Investigation	27-28	Offline & problem solving based learning

Offline	Online				
	Group based Learning	Learningthrough projects	Learning through demonstration	Learning through experimentation	Activity based Learning
28%	37.21 %	4.10 %	18.90 %	26.84 %	12.95 %

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