

GOVERNMENT POLYTECHNIC, GAJAPATI
Department of Mathematics&Science

Academic Lesson Plan for 1st Semester - 2025 (Winter)
Subject: INTRODUCTION TO IT SYSTEMS (Th.1b)(Credit-3)
Name of the teaching faculty- Dr. Sisira Kumar Kapat, Lecturer-II(CSE)

Semester from date: 06/08/2025	No. of periods per week: 3 No. of weeks: 15 Total periods: 45	Internal Exam. : 30 Marks End Semester Exam.: 70 Marks Total Marks: 100 Marks
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WEEK	CLASS DAY	THEORY/PRACTICAL TOPICS
1ST	1ST	Basic Internet skills (Definition of internet, applications), Understanding browser (Feature and constituent of Common browsers)
	2ND	Efficient use of search engines. (Definition, examples of search engine), Types of web search, working principle of search engine.
	3RD	Awareness about DigitalIndia portals (state and national portals) and college portals.
2ND	1ST	Awareness about DigitalIndia portals (state and national portals) and college portals.
	2ND	General understanding of various computer hardware components – Introduction to Hardware and Software (Input/output devices)
	3RD	General understanding of various computer hardware components – Working of CPU
3RD	1ST	General understanding of various computer hardware components – Memory (Primary and Secondary Memory)
	2ND	General understanding of various computer hardware components – Memory (Primary and Secondary Memory) – CPU (Central Processing Unit)
	3RD	General understanding of various computer hardware components – Memory (Primary and Secondary Memory) – CPU (Central Processing Unit)
4TH	1ST	General understanding of various computer hardware components – Display (Monitor – CRT, LCD, LED).
	2ND	General understanding of various computer hardware components – Overall working of Key- board, Mouse, HDD and other Peripheral Devices.
	3RD	General understanding of various computer hardware components – Overall working of Key- board, Mouse, HDD and other Peripheral Devices.
5TH	1ST	OS Installation: Definition of OS, types of OS
	2ND	OS Installation (Linux and MS Windows), Linux OS installation (Ubuntu)
	3RD	OS Installation (Linux and MS Windows), Linux OS installation (Ubuntu)
6TH	1ST	OS Installation (Linux and MS Windows), Linux OS installation (Ubuntu)
	2ND	OS Installation (Linux and MS Windows), Linux OS installation (Ubuntu)
	3RD	OS Installation (Linux and MS Windows), Windows 10
7TH	1ST	OS Installation (Linux and MS Windows), Windows 10
	2ND	OS Installation (Linux and MS Windows), Windows 10
	3RD	OS Installation (Linux and MS Windows), Windows 10
8TH	1ST	Unix Shell (Features and types)
	2ND	Shell Commands (Directory and File Manipulation Commands)
	3RD	Shell Commands (Directory and File Manipulation Commands)
9TH	1ST	Shell Commands (Terminal, Information & Utility Commands)
	2ND	Shell Commands (Terminal, Information & Utility Commands)
	3RD	VI Editor (Command mode, Insert mode)
10TH	1ST	HTML4 : Basics of webpage, basic tags of HTML, simple webpage design using HTML
	2ND	HTML4: List, tables

	3RD	HTML4: List, tables, linking web pages
11TH	1ST	HTML4: Form tags (input, text area, drop down box)
	2ND	HTML4: Form tags (input, text area, drop down box)
	3RD	CSS: CSS selectors and properties, including CSS to HTML Web pages
12TH	1ST	CSS: CSS selectors and properties, including CSS to HTML Web pages
	2ND	Making basic personal webpage using HTML and CSS.
	3RD	Office Tools: OpenOffice Writer
13TH	1ST	Office Tools: OpenOffice Spreadsheet (Calc)
	2ND	Office Tools: OpenOffice Impress.
	3RD	Office Tools: OpenOffice Writer, OpenOffice Spreadsheet (Calc), OpenOffice Impress.
14TH	1ST	Information security best practices: Definition of information, Introduction to InfoSec, Malware, Social Engg Attacks, Network Threats
	2ND	Information security best practices: Combating Infor Sec Threats (Firewall, Data Backup, VPN, Encryption, A/Vs, IDS, IPS
	3RD	Information security best practices: General computer usage, safe internet browsing, password management, removable information storage media.
15TH	1 ST	Information security best practices: safe internet browsing, password management, removable information storage media, Email Communication, avoiding Social Engg Attacks, Smart Device (Smart Phone, Tabs etc.)
	2 ND	Information security best practices: safe internet browsing, password management, removable information storage media, Email Communication, avoiding Social Engg Attacks, Smart Device (Smart Phone, Tabs etc.)
	3RD	Information security best practices: Social Networking, Instant Messaging, Online Transaction/ATM, Public Computer