JHARKHAND Rai University
UGC RECOGNISED UNIVERSITY
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Lesson Plan & Tracking

Programe : BCA	Session : 2022-25	Year : Ist Year	Sem: I

Course: Computer Fundamentals

Name of the Faculty: Shivangini Bihari	Commencement Date: 19/9/2022	Date of Closure: 30/12/2022

Lecture No.	Week	Unit	Topics to be Covered	Blended Mode			Date	Duration	Tracking of Lectures	Related Course Outcome	Signature of Faculty	Signature of HoD	Remarks (if any)
				ICT Tool/Platform/ LMS	Resources	Activity							
1	1	1	Overview of overall course with its objectives and outcomes, Introduction – Characteristics of Computer										
2			Evolution of Computer, Capabilities and Limitations of Computer										
3	2		Generations of Computer, Types of Computer (micro, mini, mainframe, supercomputer)										
4			Block Diagram of Computer, Basic components of a Computer system										
5		1	Memory – main memory organization, main memory capacity, RAM, ROM, EPROM, PROM, Cache Memory										

6	3		Input Devices: Keyboard direct entry (Card Reader), scanning devices (BAR CODE, OMR, MICR), Voice Input Device(Light pen, Mouse, Touch Screen, Digitizer, Scanner)										
7		1	Voice input devices, Light pen, Mouse, Touch Screen, Digitizer, Scanner										
8			Impact and Non-impact printers, CRT, LCD, CD-WRITTER, ZIP DRIVE										
9	4		DVD, Introduction to Web Camera, Modem										
10		2	Number System: Binary, Octal, Decimal, Hexadecimal										
11			Addition and Substraction of Number System										
12	5		Base Conversions, Other BCD Codes, Grey Code, ASCII, EBCDIC										
13		2	Boolean Algebra : Laws & Theoorems, De Morgan's Theorem, XOR & XNOR Gates										
14			Half & Full Adder & Substractor circuits										
15			Fundamentals: Products, SOP,POS										

16	6	2	Form of Boolean expressions, Truth tables & Karnaugh maps										
17			Pair reads, Octets & Karnaugh Simplification										
18	7		Mltiplexers, BCD to Decimal, BCD decoders & decoders charcteristics of digital integrated digitals										
19			Flip-Flop(RS, D, T, JK), Clock wave forms, shift										
20			Registers: Serial in Serial & out, Parllel in & Parlleout										
21	8		Counters:Asynchronous, Synchronous, Ring Counter										
22		2	Memories for Digital System: Semiconductor Memories, Memory Organization expansion, classification of memories on the basic principles of Operation										
23			Physical Characteristics & fabrication technology, ROM & basic memory cells.										
24			Test										
25			Software and its types,										

26	9	3	Compiler and Interpreter, , Assemblers, Linkers, Loaders, Different Programming Languages										
27			Test										
28	10	4	Data Communication and Computer Networks										
29			Data Transmission mode, Data transmission media										
30			Network: Network types, Network Topologies										
31	11		Communication Protocol, OSI Model,										
32			History, Basic Services, Email										
33	12		File Transfer Protocol, Telnet, Internet Search Tools, World Wide Web										
34		4	WWW Browsers : (Line, Graphical, Java Enabled Browsers)										
35			Uses of the Internet, Internet Service Providers										
36			And types of Internet Connection Direct/Leased line Connection										
37	13		Remote Dial up Connection, SLIP/PPP Connection										
38		4	Revision										
39			Revision										