JHARKHAND Rai University
UGC RECOGNISED UNIVERSITY
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Lesson Plan & Tracking

Programe : MCA	Session : 2022-2024	Year : I	Sem: I

Course: Advance Data Structure

Name of the Faculty: Dr. Ashish Kumar Sinha	Commencement Date:	Date of Closure:

Lecture No.	Week	Unit	Topics to be Covered	Blended Mode			Date	Duration	Tracking of Lectures	Related Course Outcome	Signature of Faculty	Signature of HoD	Remarl (if any
				ICT Tool/Platform/ LMS	Resources	Activity							
1	1	I	Introduction to data structure										
2		I	Type of data structure										
3		I	Array & its types										
4		I	Array & its types										
5		I	Linked list & its types										
6		I	Single linked list										
7	3	I	Circular linked list										
8		I	double linked list										
9		I	double linked list										
10		I	Asymptotic Analysis										

11	4	II	Stack and its implementation										
12		II	Simple Array Based Stack, Reversing an Array using Stack										
13	5	II	Queue & its types										
14		II	Circular queue										
15		III	Tree data structure & its terminology										
16	6	III	Difference between general tree & binary tree										
17		III	Tree traversal										
18		III	Binary Search Tree										
19	7	III	Binary Search Trees										
20		III	AVL Trees, B Trees										
21		IV	Sorting and its types										
22	8	IV	Sorting and its types										
23		IV	Searching & its types										
24		IV	Searching & its types										
25		V	Graph data structure										

26	9	V	Introduction to Graph data structure										
27		V	Types of graph data structure										
28	10	V	Graph terminology										
29		V	Graph traversal										
30		V	Graph shortest path algorithm										
31	11	V	Graph shortest path algorithm										
32		V	Minimum Spanning Trees										
33		V	Minimum Spanning Trees										
34	12		Revision										
35			Revision										
36			Revision										