Semester Lecture Plan

Name of Fa	aculty: Pooja	Bhanudas N	aik	Su	bject: Computer Science		
Paper code and Paper name: CSC-202:Data Structures and Algorithms			ures and Algorithms Pr	ogram/Course: SYBSc	Division:		
Academic year: 2024 - 2025			Se	mester: IV	Total Lectures: 30		
2. To develop Course Lea On c • 1. Un • 2. An • 3. De	arning Outcon ompletion of th nderstand basic nalyze space-tin esign and analy	choose the app me: ne course, stuc data structure ne complexity ze basic algorit	propriate dat lents will be es, their imp of basic algo thms using a	lementation and some of their standa			
Month	-	tures To:	No. of lectures allotted	Topic, Subtopic to be covered	Exercise/Assignment	ICT Tools	Reference books
December	09/12/2024		2	Multi-dimensional arrays. Singly linked list. Multi-dimensional arrays. Singly linked list.	Practice problems at home and during practicals. Practice problems at home and during practicals.	Smart Board LCD Projector	Richard F. Gilberg, Behrouz A. Forouzan (2007). Data Structures: pseudocode Approach with C. Cengage Learning
December	16/12/2024	21/12/2024	2	Doubly linked list, sorted list, multithreaded and circular linked	Practice problems at home and during	Smart Board	Richard F. Gilberg, Behrouz A. Forouzan (2007). Data Structures: pseudocode Approach with C.

						LCD Projector	
January	06/01/2025	11/01/2025	2	Doubly linked list, sorted list, multithreaded and circular linked list	Practice problems at home and during practicals.	Smart Board LCD Projector	Richard F. Gilberg, Behrouz A. Forouzan (2007). Data Structures: A pseudocode Approach with C. Cengage Learning
January	13/01/2025	18/01/2025	2	Stack using arrays and linked list and applications of stacks	Practice problems at home and during practicals.	Smart Board LCD Projector	Richard F. Gilberg, Behrouz A. Forouzan (2007). Data Structures: A pseudocode Approach with C. Cengage Learning
January	20/01/2025	25/01/2025	2	Stack using arrays and linked list and applications of stacks	Practice problems at home and during practicals.	Smart Board LCD Projector	Richard F. Gilberg, Behrouz A. Forouzan (2007). Data Structures: A pseudocode Approach with C. Cengage Learning
			2	Queues using arrays and linked list. Sorting Algorithms	Practice problems at home and during practicals.	Smart Board LCD Projector	Richard F. Gilberg, Behrouz A. Forouzan (2007). Data Structures: A pseudocode Approach with C. Cengage Learning
January February	27/01/2025	01/02/2025	2	Queues using arrays and linked list. Sorting Algorithms	Practice problems at home and during practicals.	Smart Board LCD Projector	Richard F. Gilberg, Behrouz A. Forouzan (2007). Data Structures: A pseudocode Approach with C. Cengage Learning
February	10/02/2025	15/02/2025	2	Queues using arrays and linked list. Sorting Algorithms	Practice problems at home and during practicals.	Smart Board LCD Projector	Richard F. Gilberg, Behrouz A. Forouzan (2007). Data Structures: A pseudocode Approach with C. Cengage Learning
February	17/02/2025	22/02/2025	2	Searching algorithms, Recursion.	Practice problems at home and during practicals.	Smart Board LCD Projector	Richard F. Gilberg, Behrouz A. Forouzan (2007). Data Structures: A pseudocode Approach with C. Cengage Learning

					Practice problems at home and during	Smart Board	Richard F. Gilberg, Behrouz A.
February	24/02/2025	01/03/2025	2	Searching algorithms, Recursion.	practicals.	LCD Projector	Forouzan (2007). Data Structures: A pseudocode Approach with C. Cengage Learning
March	03/03/2025	08/03/2025	2	Trees with traversals.	Practice problems at home and during practicals.	Smart Board LCD Projector	Richard F. Gilberg, Behrouz A. Forouzan (2007). Data Structures: A pseudocode Approach with C. Cengage Learning
March	10/03/2025	15/03/2025	2	Trees with traversals.	Practice problems at home and during practicals.	Smart Board LCD Projector	Richard F. Gilberg, Behrouz A. Forouzan (2007). Data Structures: A pseudocode Approach with C. Cengage Learning
March	17/03/2025	22/03/2025	2	Heaps and graphs with traversals.	Practice problems at home and during practicals.	Smart Board LCD Projector	Richard F. Gilberg, Behrouz A. Forouzan (2007). Data Structures: A pseudocode Approach with C. Cengage Learning
March	24/03/2025	29/03/2025	2	Heaps and graphs with traversals.	Practice problems at home and during practicals.	Smart Board LCD Projector	Richard F. Gilberg, Behrouz A. Forouzan (2007). Data Structures: A pseudocode Approach with C. Cengage Learning
March	31/03/2025	05/04/2025	2	Revision	Practice problems at home and during practicals.	Smart Board LCD Projector	Richard F. Gilberg, Behrouz A. Forouzan (2007). Data Structures: A pseudocode Approach with C. Cengage Learning

## \*Assessment Rubrics

Component	Max Marks
ISA 1	7.5
ISA 2	7.5
Practical	25
Project	-
Semester End	60
Examination	