

Maharashtra State Board of Technical Education, Mumbai

TUTORIAL PLANNING

Academic Year: 2026-27 (ODD)

Institute Code and Name: 0078- K K Wagh Polytechnic, Nashik

Semester: Third

Programme and Code: Information Technology (IF)

Course Index: 301

Course and Code: Data Structure Using C (DSU)

Course Code: 313301

Scheme: K Allocated Hrs. 15

Name of Faculty: Mr. S. S. Dhoot

Class: SYIF (Param)

COURSE LEVEL LEARNING OUTCOMES (COS)

- CO1 - Perform basic operations on Arrays.
- CO2 - Apply different Searching and Sorting methods.
- CO3 - Implement basic operations on Linked List.
- CO4 - Perform operations on Stack using Array and Linked List Implementations.
- CO5 - Perform operations on Queue using Array and Linked List Implementations.
- CO6 - Create and Traverse Tree to solve problems.

TEACHING-LEARNING & ASSESSMENT SCHEME

Course Code	Course Title	Abbr	Course Category	Learning Scheme					Credits	Paper Duration	Assessment Scheme										Total Marks
				Actual Contact Hrs/Week			SLH	NLH			Theory				Based on LL & TSL Practical				Based on SL		
				CL	TL	LL					FA - TH	SA - TH	Total		FA-PR		SA-PR		SLA		
													Max	Min	Max	Min	Max	Min	Max	Min	
313301	Data Structure using C	DSU	DSC	3	1	4	-	8	3	3	30	70	100	40	50	20	25#	20	-	-	175

Total IKS Hrs for Sem.: 0 Hrs

Abbreviations: CL- Classroom Learning , TL- Tutorial Learning, LL-Laboratory Learning, SLH-Self Learning Hours, NLH-Notional Learning Hours, FA - Formative Assessment, SA -Summative assessment, IKS - Indian Knowledge System, SLA - Self Learning Assessment Legends: @ Internal Assessment, # External Assessment, *# On Line Examination , @\$ Internal Online Examination.

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Sr. No.	LLO	Practical Title	Planned Date	Performance Date	Remarks	Related Self Learning
1	1.1	Implement C program to perform operations on array	11/07/26			NA
2	2.1 3.1 4.1 5.1	Implement C programs to implement searching algorithms	12/09/26			NA
3	6.1 7.1 8.1 9.1 10.1 11.1	Implement C programs to implement sorting algorithms	26/09/26			NA
4	12.1 13.1 15.1	Develop C program to implement linked list	03/10/26			NA
5	16.1 17.1 18.1 19.1	Develop C program to implement stack as ADT	08/08/26			NA
6	21.1 22.1	Develop C program to implement queue as ADT	29/08/26			NA
7	23.1	Develop C program to implement circular queue	05/09/26			NA
8	26.1	Develop C program to implement BST (Binary Search Tree).	25/07/26			NA

Mr. S. S. Dhoot
Name & Signature of Faculty

Ms. M. S. Karande
Name & Signature of HOD