ARISE & SHINE

ST. VINCENT PALLOTTI COLLEGE OF ENGINEERING & TECHNOLOGY, NAGPUR
(An autonomous institution affiliated to Rashtrasant Tukadoji Maharaj Nagpur University)
B.VOC. Scheme of Examination & Syllabus 2024-25
SOFTWARE DEVELOPMENT

FIFTH SEMESTER

COURSE CODE	COURSE NAME	TH	TU	PR	CREDITS	EVALUATION		
						CA	ESE	TOTAL
BV502P	Employability Skills-II Lab	-	-	3	3	25	25	50

COURSE OBJECTIVES	COURSE OUTCOMES
• To understand Data Structures & Algorithms • To learn a practical approach of Data structures. .	**At the end of the course, students will be able to:** **CO1.** Understand Data Structures & Algorithms **CO2.** Understand Linked Lists & searching techniques **CO3.** Understand Structures sorting **CO4:** Understand Graph and Tree Data Structure

List of Practical :

1.Write a program using data structure arrays for Insertion in an array element
   a) At the beginning
   b) At the end
   c) At any given index of an array.
2.Write a program using data structure arrays for deletion in an array element
   a) At the beginning
   b) At the end
3. Write a function that will concatenate two circularly linked lists,producing one circularly liked list.
4. Write a class that implements Bubble sorting algorithm on a set of 25 numbers.
5. Write a template class for sorting method. Using this class write a test program for sorting using different datatypes.
6. Implement the following Tree class member function Bool empty () const;
7. Program on Tree traversal.
8. Program on linear search and Binary search.

TEXT/ REFERENCE BOOKS

S.N	Title	Authors	Edition	Publisher
1	Introduction to Algorithms	Thomas H. Cormen, Charles E. Leiserson, Ronald L. Rivest and Clifford Stein.	3rd	PHI
2.	Data strctures & Algorithms made easy	Narsimha Karumanchi	1st	Career monk
3.	Data Structure & algorithms	Prof. Dippanita Mondal	1st	Everest publishing house

		**OCT-2022**	1.0	**APPLICABLE 2024-25**
CHAIRMAN- BoS	**DEAN (ACADEMICS)**	**DATE OF RELEASE**	**VERSION**	