

| Course Number and Name   |   |   |   |   |   |               |   |   |   |   |   |   |
|--|---|---|---|---|---|---------------|---|---|---|---|---|---|
| BCS406-OBJECT ORIENTED PROGRAMMING AND DATA STRUCTURES   |   |   |   |   |   |               |   |   |   |   |   |   |
| Course Objectives  |   |   |   |   |   |               |   |   |   |   |   |   |
| <ul style="list-style-type: none"> <li>To develop solutions to given problems using class object concepts.</li> <li>To understand the concepts of overloading, inheritance and polymorphism</li> <li>To learn the basic data structures and its operations.</li> </ul> |   |   |   |   |   |               |   |   |   |   |   |   |
| Prerequisites  |   |   |   |   |   | Co-requisites |   |   |   |   |   |   |
| BCS101-Fundamentals of Computing and Programming   |   |   |   |   |   | Nil           |   |   |   |   |   |   |
| Course Outcomes (COs)  |   |   |   |   |   |               |   |   |   |   |   |   |
| CO1: Develop solutions to a given problems using class object concepts.  |   |   |   |   |   |               |   |   |   |   |   |   |
| CO2 : Illustrate overloading, inheritance and polymorphism concepts with example.  |   |   |   |   |   |               |   |   |   |   |   |   |
| CO3 : Explain the basic data structures and its operations   |   |   |   |   |   |               |   |   |   |   |   |   |
| CO4 : Make use of basic data structures to solve problems.   |   |   |   |   |   |               |   |   |   |   |   |   |
| CO5: To develop programs using C++ which forms the basic for advanced programming?   |   |   |   |   |   |               |   |   |   |   |   |   |
| CO6 : Outline various searching and sorting algorithms.  |   |   |   |   |   |               |   |   |   |   |   |   |
| Student Outcomes (SOs) from Criterion 3 covered by this Course   |   |   |   |   |   |               |   |   |   |   |   |   |
| COs/SOs  | a | b | c | d | e | f             | g | h | i | j | k | L |
| CO1  | M | H |   |   |   | M             |   |   |   |   |   |   |
| CO2  | M |   |   | H | M |               |   |   | M |   |   | M |
| CO3  | M | M |   |   | M |               |   |   |   |   |   |   |
| CO4  | L |   |   |   |   |               | M |   |   |   |   | M |
| CO5  | H | H | L | M |   |               | M |   | M | M |   | M |
| CO6  | M |   |   |   |   | H             |   |   |   |   |   | H |