Silver Oak College of Engineering and Technology

Computer Engineering Department

MID SEM EXAM SYLLABUS

8th sem CE

Subject Code	Subject Name	Syllabus (As Per GTU)
2180703	Artificial Intelligence	**UNIT:1** What is AI? : The AI Problems, The Underlying Assumption, What Is An AI Techniques, The Level Of The Model, Criteria For Success, Some General References, One Final Word. **UNIT:2** Problems, State Space Search & Heuristic Search Techniques : Defining The Problems As A State Space Search, Production Systems, Production Characteristics, Production System Characteristics, And Issues In The Design Of Search Programs, Additional Problems. Generate-And-Test, Hill Climbing, Best-First Search, Problem Reduction, Constraint Satisfaction, Means-Ends Analysis. **UNIT:3** Knowledge Representation Issues : Representations And Mappings, Approaches To Knowledge Representation **UNIT:4** Using Predicate Logic : Representation Simple Facts In Logic, Representing Instance And Isa Relationships, Computable Functions And Predicates, Resolution. **UNIT:5** Representing Knowledge Using Rules : Procedural Versus Declarative Knowledge, Logic Programming, Forward Versus Backward Reasoning
2180711	Python Programming	**Unit-1:** Introduction to Python The basic elements of python, Branching Programs, Control Structures, Strings and Input **Unit-2:** Functions, Scoping and Abstraction Functions and scoping, Specifications, Recursion, Global variables, Modules, Files, System Functions and Parameters **Unit-3:** Structured Types, Mutability and Higher-Order Functions Strings, Tuples, Lists and Dictionaries, Lists and Mutability, Functions as Objects **Unit-4:** Testing, Debugging, Exceptions and Assertions Types of testing – Black-box and Glass-box, Debugging, Handling Exceptions, Assertions **Unit 5:** Classes and Object-Oriented Programming Abstract Data Types and Classes, Inheritance
2180714	iOS Programming	**UNIT-1**:Fundamentals: Overview of MAC OS and X-CODE, Introduction to iPhone Architecture, Essential COCOA Touch Classes, Interface Builder, Nib File, COCOA and MVC Framework, Overview of features of latest iOS. **UNIT-2**:Swift Basics: Basics of objective c, Need of transformation from objective c to swift, Data types, variables, constants, operators, Decision making statements, looping, arrays, dictionaries, functions, enumerations, structure, classes, inheritance.