

**Silver Oak College of Engineering and Technology**  
**Computer Engineering Department**  
**8<sup>th</sup> CE Mid Semester Syllabus, A. Y. 2019, Summer 2019 Session**

Subject Name	Subject Code	Syllabus(As per GTU)
IOS Programming	2180714	Unit 1 (Fundamentals) Unit 2 (Swift Basics) Unit 3 (iPhone Application Development)
Python Programming	2180711	Unit 1 (Introduction to Python), Unit 2 Functions, Scoping and Abstraction, Unit 3 Structured Types, Mutability and Higher-Order Functions, Unit 4 Testing, Debugging, Exceptions and Assertions, Unit 5 Classes and Object-Oriented Programming, Unit 6 Simple Algorithms and Data structures
Big Data Analytics	2180710	Unit 1(Introduction to Big Data), Unit 2(Introduction to Hadoop and Hadoop Architecture), Unit 3(HDFS, HIVE And HIVEQL, HBASE)
Artificial Intelligence	2180703	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

		<p>Satisfaction, Means-Ends Analysis.</p> <p>Unit 3: Knowledge Representation Issues: Representations And Mappings, Approaches To Knowledge Representatio.</p> <p>Unit 4: Using Predicate Logic : Representation Simple Facts In Logic, Representing Instance And Isa Relationships, Computable Functions And Predicates, Resolution.</p> <p>Unit 5: Representing Knowledge Using Rules : Procedural Versus Declarative Knowledge, Logic Programming, Forward Versus Backward Reasoning.</p> <p>Unit 6: Symbolic Reasoning Under Uncertainty : Introduction To Non- 4 monotonic reasoning, Logics For Non-monotonic Reasoning.</p> <p>Unit 7: Statistical Reasoning : Probability And Bays' Theorem, Certainty Factors And Rule-Base Systems, Bayesian Networks, Dempster-Shafer Theory, Fuzzy Logic.</p> <p>Unit 8: Weak Slot-and-Filler Structures : Semantic Nets, Frames.</p>