SRINIVASA EDUCATIONAL SOCIETY'S
PACE INSTITUTE OF TECHNOLOGY & SCIENCES
(AUTONOMOUS)
Approved by AICTE, Accredited by NBA & NAAC(A Grade), Recognized under 2(f) & 12(B) of UGC
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DEPARTMENT OF TRAINING & PLACEMENTS

TECHNICAL SYLLABUS- SEM WISE TOPICS

S.NO	B.TECH I YEAR- I SEM
	C PROGRAMMING
1	Orientation Classes :
	Motivation Classes
	Significance of TechnicalTraining
2	FUNDAMENTALS AND BASIC IDEA ABOUT C LANGUAGE
3	VARIABLES, DATA TYPES, KEYWORDS AND STORAGE CLASSES
4	OPERATORS IN C
5	POINTERS IN C
6	STATEMENTS IN C
7	ARRAYS IN C
8	STRINGS IN C
9	FUNCTIONS IN C
S.NO	B.TECH I YEAR- II SEM
	PYTHON PROGRAMMING
1	PYTHON LANGUAGE INTRODUCTION,VARIBLES, KEYWORDS
2	DATA TYPES, EXPRESSIONS, STATEMENTS, OPERATORS
3	TYPES OF OPERATORS AND SAMPLE PROGRAMS USING OPERATORS
4	CONTROL STATEMENTS, LOOPING STATEMENTS, SAMPLE PROGRAMS USING DIFFERENT TYPES OF STATEMENTS
5	LIST, TUPLES AND SAMPLE PROGRAMS USING LIST AND TUPLE
6	SET, MAP, DICTIONARIES AND SAMPLE PROGRAMS USING SET AND DICTIONARIES
7	STRINGS IN PYTHON AND PROGRAMS TO BE COVERED ONSTRINGS
8	FUNCTIONS IN PYTHON AND SAMPLE PROGRAMS USING FUNCTIONS IN PYTHON
S.NO	B.TECH II YEAR- I SEM
	DATA STRUCTURES & ALGORITHMS
1	POINTERS, DYNAMIC MEMORY ALLOCATIONS(DMA), STRUCTURES WITH EXAMPLE PROGRAMS
2	ARRAYS, LINKED LIST, ADVANTAGES OVER ARRAYS AND DIFFERENT OPERATIONS USING SINGLY LINKED LIST (INSERTION OF NODES, DISPLAYING NODES, AND FINDING LENGTH OF LINKED LIST)

3	SINGLY LINKED LIST OPERATIONS (DELETION OF NODES, DISPLAYING DATA IN REVERSE ORDER, AND SWAPING TWO NODES USING SINGLE LINKED LIST
4	STACKS AND ITS OPERATIONS (PUSH(), POP(), PEEK() AND TRAVERSE() OPERATIONS)
5	QUEUES AND ITS OPERATIONS (INSERT(), DELETE() AND DISPLAY())
6	SEARCHING TECHINQUES USING LINEAR SEARCH AND BINARY SEARCH WITH EXAMPLE PROGRAMS
7	SORTING TECHNIQUES USING DIFFERENT PROGRAMS
8	TREES AND DIFFERENT TYPES OF TREES
S.NO	B.TECH II YEAR- II SEM
DATA BASE MANAGEMENT SYSTEM	
1	Relational Database Basics
2	Data Definition Language (DDL)
3	Data Manipulation Language (DML)
4	Transaction Control Language
5	Data Control Language (DCL)
6	Clauses, Operators & Aggregation Functions
7	Sub Queries & Co-Related Queries
8	Relations & Keys in DBMS
9	Normalization
10	Joins
S.NO	B.TECH III YEAR- I SEM
OOPs Through Python	
1	Need of Object Oriented Programming.
2	Importance of Object Oriented Programming through Python programming.
3	Object Oriented Programming Features
4	General Concepts(Instance Variables , Class Variables, Instance Methods , Class Methods, & Static Methods, Self Variable,Usage of Super() Method, Operator Overloading,Example Programs, Objective Questions)
5	Exception Handling
6	Data Hiding and Data Abstractions in Python.
7	Data Encapsulation in python.
8	Inheritance in Python
9	Polymorphism in Python.
S.NO	B.TECH III YEAR- II SEM
1	Company Specific Training On Python Programming
2	Company Specific Training On Advanced Python Programming

3	Company Specific Training On SQL & NOSQL
4	Company Specific Training On Advanced Data Structures
S.NO	B.TECH IV YEAR- I SEM
1	Company Specific Training On Core JAVA & Advanced JAVA
2	HackerRank Problem Challenges Solving
3	Mini Projescts