

**A.Y:2020-21**

<b><u>S.No</u></b>	<b>Name of The Course</b>	<b>Dates</b>	<b>Year</b>	<b>No. of Students Attended</b>
1	JAVA PROGRAMMING	01.02.2021 to 01.03.2021	IV <u>B.Tech</u>	80
2	PYTHON TRAINING	29/03/2021 to 23/04/2021	IV <u>B.Tech</u>	75
3	PYTHON PROGRAMMING	14.06.2021 to 17.07.2021	IV <u>B.Tech</u>	85
4	DATA STRUCTURES	09-08-2021 to 11-09-2021	IV <u>B.Tech</u>	85



**Devineni Venkata Ramana & Dr.Hima Sekhar**  
**MIC College of Technology**  
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# DATA STRUCTURES TRAINING BY TRAINING & PLACEMENT CELL

**Date of the Event: 09/08/2021 - 11/09/2021**

Department Coordinators: Mr. M Tharun – EEE

Mr. K Veenanand - ECE

## Topics of the Program

Python for DS  
ASYMPTOTIC NOTATIONS  
LINKED LISTS  
STACKS  
QUEUES  
TREES

GRAPHS  
HEAPS & HASHING  
SEARCHING AND SORTINGS  
DYNAMIC PROGRAMMING &  
BACK TRACKING  
GREEDY ALGORITHMS



**DVR & Dr. HS**  
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**DEPARTMENT: Training and Placement**

**DATE: 07-08-2021**

**ACADEMIC YEAR: 2020-21**

<b>ORIGINATOR</b>	<b>Principal</b>
<b>CIRCULATED TO</b>	<b>HODs, Faculty and IV B. Tech Students – All Departments</b>

All the HOD's, staff and students are hereby informed that the training and placement section is conducting training classes on Data Structures for IV Year student's from 09-08-2021 to 11-09-2021. The training schedule is as follows.

**Timings: 9.15 AM to 12.30 PM (Forenoon)**

**1.15 PM to 4.30 PM (Afternoon)**

**Venues:**

**CSE Seminar Hall- CSE & ECE Batch 1**

**ECE Seminar Hall -CSE & ECE Batch 2**

**EEE Seminar Hall -IT, MECH, CIVIL, EEE**

HODs are hereby informed to depute their T&P Coordinator & faculty (as per timetable) at the venues.

**Principal**

**PRINCIPAL**  
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Kanchikacherla, Krishna Dt.  
Andhra Pradesh, India – Pin: 521180.



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**Name of the Event: DATA STRUCTURES**

**Date:13-09-2021**

**Department: EEE**

**Academic Year: 2020-21**

**Topic: DATA STRUCTURES**

**Date of the Event:09-08-2021 to 11-09-2021**

**Resource Person:**

**Name of the coordinator: M.Tharun**  
**Asst Professor, Dept of EEE**

**Target Audience: B. Tech EEE branch students**

**Total no of Participants:85**

**Learning Outcomes**

1. To understand basic data structures, their implementation and some of their standard applications.
2. To develop the ability to design and analyze basic algorithms and prove their correctness using the appropriate data structure learned in the course.

**Course Objectives**

- Be familiar with basic techniques of algorithm analysis
- Be familiar with writing recursive methods
- Master the implementation of linked data structures such as linked lists and binary trees
- Be familiar with advanced data structures such as balanced search trees, hash tables, priority queues and the disjoint set union/find data structure
- Be familiar with several sub-quadratic sorting algorithms including quick sort, merge sort and heap sort



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## Description:

### DVR & Dr. HS MIC College of Technology

#### Syllabus for DATA STRUCTURES with Python

Topic	Sub Topic
Python for DS	Revision of Python and Problems on arrays
ASYMPTOTIC NOTATIONS	Introduction To Performance Analysis(Best, Average Worst). Introduction To Space And Time Complexities. Introduction To Asymptotic Notations, types Of Asymptotic Notations, Time Complexities Of Different Types Like (Constant Time, Logarithmic Time, Linear Time, Quasilinear Time, Quadratic Time, Exponential Time, Factorial Time), Master'S Theorem
LINKED LISTS	Introduction About Linked Lists, All Types(Single) And Its Operations Deletion Of Duplicates(Sorted And Unsorted),K Th Swapping Problem, Linkedlist Rotations
STACKS	Introduction To Stacks And Its Operations And Applications, Stacks As Linked List And Stack As Array, Balancing Parenthesis, Expression Conversion - (Infix, Prefix, Postfix), Expression Evaluation (Infix, Prefix, Postfix)
QUEUES	Introduction To Queue And Its Operations And Applications, Queue As Linked List And As Array. Types Of Queue and Circular Queue. , Priority Queue, Deque, Queue Implementation Using Stacks, Queue Programs
TREES	Introduction To Trees And Its Applications, Tree Terminologies And Its Types. Binary Tree representations - array, Linked List, Tree representations - Full, complete, binary, skewed, Formulae and programs Tree Traversals (Inorder, Preorder, Postorder, and Level Order), Tree Construction From Traversals, Depth Of Tree Binary Search Tree - Creation, Insertion(all types), BST construction from preorder, Binary tree to BST, array to BST(level order,preOrder), BST - deletion(all types), Traversals, all Standard Operations, BST Programs
GRAPHS	Introduction To Graphs And Its Applications Graph Terminologies And Types Of Graphs Graph Representation Using Adjacency List And Matrix Traversals( Bfs And Dfs) Cycle Detection In Graphs Programs, minimum spanning tree (kruskal's and Prim's algorithm)
HEAPS & HASHING	Implementation of Heaps, Binary Heap , Applications of hashing, Discussion on Direct Address Table, Collision handling, Problem on Heaps and Hashing
SEARCHING AND SORTINGS	Introduction To Searching And Sortings Linear Search And Binary Search Bubble Selection Insertion, Quick,Merge,Heap, Radix





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<b>DYNAMIC PROGRAMMING &amp; BACK TRACKING</b>	Greedy vs Dynamic programming. Top down and bottom up approach, Longest Common Subsequence, longest increasing subsequence, Edit distance, 0-1 Knapsack, Coin change problem and Problems on dynamic programming
<b>GREEDY ALGORITHMS</b>	Introduction to Greedy algorithms, Activity Selection problem, Fractional Knapsack and Problems on Greedy algorithms

Photograph:



  
Coordinator

  
HOD

  
Principal

1. INTRODUCTION

2. PYTHON DSA

3. BIT MAGIC

4. LISTS

5. RECURSION

6. SEARCHING

7. SORTING

8. HASHING

9. STRINGS

10. LINKED LISTS

11. STACK

12. QUEUE

13. DEQUE

14. TREE

15. BINARY SEARCH TREE

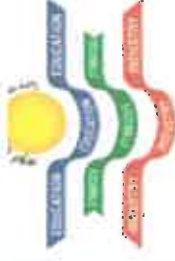
16. HEAP

17. GRAPHS

18. GREEDY METHODS

19. BACKTRACKING

20. TRIE



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## TRAINING AND PLACEMENT CELL

### TRAINING PROGRAMME ON JAVA PROGRAMME

#### RESOURCE PERSON FROM

**BYTEXL India Private Limited**

**Software Company**

**Hyderabad, Telangana**

#### Principal

**Dr.K.Srinivas M.Tech, PhD**

# byteXL

#### Department Coordinators

Mr. P. Anil Kumar (CSE)

Mr. K Veenanand (ECE)

Mrs. D. Divya (MECH)

Mr. M. Tharun (EEE)

Mr. A.V.V Sai Ram (CIVIL)

Mrs. S. Mounika (IT)

**01-02-2021 to 01-03-2021**



**REGISTRATION  
FREE**



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DEPARTMENT: Training and Placement

DATE: 20-01-2021

ACADEMIC YEAR: 2020-21

ORIGINATOR	Principal
CIRCULATED TO	HODs, Faculty and III B. Tech Students – All Departments

All the HOD's, staff and students are hereby informed that the training and placement section is conducting technical training classes on **JAVA PROGRAMMING** for III B.Tech(CSE,ECE & IT, MECH, CIVIL, EEE) student's from 01.02.21 to 01.03.21. The training schedule is as follows.

**Training schedule:**

**Timings:** 9.15 AM to 12.30 PM (Forenoon)

1.15 PM to 4.30 PM (Afternoon)

**Venues:**

CSE Seminar Hall	CSE & ECE Batch 1
ECE Seminar Hall	CSE & ECE Batch 2
EEE Seminar Hall	IT, MECH, CIVIL, EEE

HODs are hereby informed to depute their T&P Coordinator & faculty (as per time table) at the venues.

**Principal**  
**PRINCIPAL**  
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**DEPARTMENT OF MECHANICAL ENGINEERING**  
**A REPORT ON TRAINING PROGRAMME ON JAVA PROGRAMMING**

**Date:02.03.21**

**Academic Year: 2020-21**

**Event Type** : **PLACEMENT TRAINING PROGRAMME**  
**Date / Duration** : **01.02.2021 to 01.03.2021**  
**Resource Person From** : **Byte XL India Private Ltd,**  
**Software Company, Hyderabad**  
**Name of Coordinator** : **Mr. M.Tharun**  
**Assistant Professor, Training & Placement Coordinator**  
**Department of EEE**

**Target Audience: B. Tech IV YEAR students**

**Total No of Participants: 80**

**Description:**

The Comprehensive Training Program for JAVA Programming for Placements was designed to equip participants with the essential skills and knowledge required to excel in technical interviews and secure placements in top-tier companies. This intensive program covers the fundamental concepts of Java and C programming languages, focusing on both theoretical understanding and practical application.

**Key Objectives:**

**Mastery of Core Concepts:** Develop a strong foundation in Java and C programming, covering topics such as variables, data types, operators, control structures, loops, functions, pointers, memory management, and more.

**Problem-Solving Skills:** Sharpen participants' ability to solve complex programming problems using Java and C. Emphasis will be placed on algorithmic thinking and efficient coding practices.

**Hands-on Practice:** Provide extensive hands-on coding exercises, assignments, and projects to reinforce theoretical concepts and enhance practical coding skills.

**Interview Preparation:** Offer guidance on common interview questions, coding challenges, and strategies for technical interviews conducted by top companies.

**Real-world Applications:** Demonstrate the application of Java and C in real-world scenarios, such as system-level programming, data structures, and object-oriented programming.

**Code Optimization:** Teach techniques for writing optimized and efficient code to improve program performance.



### **Course Structure:**

#### ***Week 1: Introduction to Programming and Java***

Introduction to programming concepts

Java syntax and fundamentals

Variables, data types, and operators

Control statements and loops

Methods and functions

Object-oriented programming (OOP) concepts

#### ***Week 2: Advanced Java Programming***

Inheritance, polymorphism, and encapsulation

Exception handling

File handling

Introduction to data structures in Java

Introduction to GUI programming (Swing or Java FX)

#### ***Week 3: C Programming and Problem Solving***

Introduction to C programming

Data types, operators, and expressions in C

Control structures and loops in C

Functions and pointers in C

Memory management and dynamic memory allocation

Introduction to algorithms and problem-solving techniques

#### ***Week 4: Advanced C Programming and Interview Prep***

File handling and manipulation in C

Data structures in C (arrays, linked lists, stacks, queues)

Algorithm design and analysis

Common coding interview questions and techniques

Mock technical interviews and feedback

### ***Additional Features:***

***Live Coding Sessions:*** Interactive coding sessions with instructors to solve problems in real-time.

***Q&A and Doubt Resolution:*** Regular Q&A sessions to address participants' doubts and queries.

***Online Coding Platforms:*** Introduce participants to popular coding platforms like LeetCode, HackerRank, and Code forces for further practice.



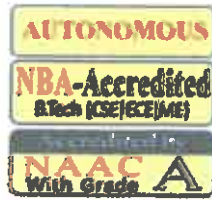
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**Certificate of Completion:** Provide participants with a certificate upon successfully finishing the program.

**Benefits:**

- Strong foundation in Java and C programming languages.
- Improved problem-solving skills and algorithmic thinking.
- Enhanced coding efficiency and optimization techniques.
- Confidently tackle technical interviews for placements.
- Access to a supportive learning community and expert instructors.

**Photographs:**



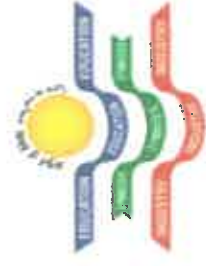
  
**Coordinator**

  
**HOD**

  
**Principal**

## TOPICS COVERED

1. INTRODUCTION TO SCRIPT
2. INTRODUCTION TO PYTHON
3. DIFFERENT MODELS IN PYTHON
4. PYTHON NEW IDEs
5. VARIABLES IN PYTHON
6. STRING HANDLING
7. PYTHON OPERATORS and  
OPERANDS
8. CONDITIONAL STATEMENTS &  
LOOPS
9. COLLECTIONS 'LISTS, TUPLE,  
SETS, DICTIONARY.
10. PYTHON MODULES
11. PACKAGES
12. FILE HANDLING
13. EXCEPTION HANDLING
14. OOPS PROGRAMMING



Deviveni Venkata Ramana & Dr.Hima Sekhar

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## TRAINING AND PLACEMENT CELL

### TRAINING PROGRAMME ON PYTHON PROGRAMME

#### RESOURCE PERSON FROM

BYTEXL India Private Limited  
Software Company  
Hyderabad, Telangana



#### Department Coordinators

Mr. P. Anil Kumar (CSE)

Mr. K. Veenanand (ECE)

Mrs. D. Divya (MECH)

Mr. M. Tharun (EEE)

Mr. A.V.V Sai Ram (CIVIL)

Mrs. S. Mounika (IT)

29-03-2021 to 23-04-2021

**REGISTRATION  
FREE**

Principal

Dr.K.Srinivas M.Tech, PhD





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**Department: Training and Placement**

**Date: 22-03-2021**

**Academic Year: 2020-21**

ORIGINATOR	Principal
CIRCULATED TO	HODs, Faculty and IV B. Tech Students – All Departments

**Training Programme**

All the HOD's, staff and students are hereby informed that the training and placement cell is conducting technical training classes on **Python** for IV B. Tech (CSE, ECE, IT, MECH, CIVIL, EEE) student's from 29.03.2021 to 23.04.2021. All students should attend the training programme without fail. Attendance is mandatory.

**Training schedule:**

**Timings: 9.15AM to 12.30PM (Forenoon)**

**1.15PM to 4.30PM (Afternoon)**

**Venues:**

Hall	Session	Students
CSE Seminar Hall	Morning	CSE&ECE
ECE Seminar Hall	Afternoon	CSE&ECE
EEE Seminar Hall	Morning	IT, MECH,
EEE Seminar Hall	Afternoon	CIVIL, EEE

HODs are hereby informed to depute their T&P Coordinator & faculty (as per time table) at the venues.

**Principal**  
**PRINCIPAL**

Devineni Venkata Ramana & Dr Himasekhar  
MIC College of Technology  
Kanchikacherla, Krishna District





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## DEPARTMENT OF MECHANICAL ENGINEERING

### A REPORT ON TRAINING PROGRAMME ON PYTHON PROGRAMMING

Date:26/04/2021

Academic year:2020-21

**Name of the Event:** Python TrainingProgramme

**Date(s) of the Event:** 29/03/2021 to 23/04/2021

**Resource PersonFrom:**Byte XL India Pvt Ltd, Software Company, Telangana.

**Name of the coordinator:** Mr. M.Tharun

**Assistant Professor, T & P Coordinator**

**Dept of EEE**

**Target Audience:** IV B. Tech Students

**Total no of Participants:** 75

#### **Description:**

The Department of Training & placement cell organized “Byte XL”, and is specially meant for engineering final students. The sole objective of imparting aptitude training is to make students able to critically evaluate various real-life situations by resorting to an analysis of key issues and factors. This Aptitude Training helps them to demonstrate various principles involved in solving mathematical problems and thereby reducing the time taken for performing job functions. Logical reasoning is a test of a skill rather than a test of learned knowledge. This is used to determine a student's critical thinking skills, as well as their ability to use their own knowledge to solve a problem. Soft Skills (a vital portion of an individual's personality) is an intangible idea in which the qualities like attitude, ability, integrity, reliability, positivity, flexibility, dependability, punctuality, management, cooperation, habits and practices are combined proficiently to capitalize on a person's work efficacy. Soft Skills do the work of combining all these components in accurate share into skills and shaping them into competencies. The aim of the coding is to produce high quality system which can be performed in any situation. The programmer removes all the errors related to syntax and format and all the logical errors which find in the programmer during the coding phase.

**Outcome of event:**After completing this training course, students will be able to

1. Enhance the Aptitude Round Clearing ability in interview process
2. Solve the real-time problems for performing job functions easily
3. Interpret the concepts of LOGICAL REASONING Skills
4. Develop effective communication skills (spoken and written).



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**Feedback / Suggestions:** Students are participated in enthusiastic manner.

Planned to organize every year.

**Photographs:**



**Program Coordinator**

**HOD**

**Principal**

1. INTRODUCTION TO SCRIPT

2. INTRODUCTION TO PYTHON

3. DIFFERENT MODELS IN PYTHON

4. PYTHON NEW IDEs

5. VARIABLES IN PYTHON

6. STRING HANDLING

7. PYTHON OPERATORS and

OPERANDS

8. CONDITIONAL STATEMENTS &  
LOOPS

9. COLLECTIONS 'LISTS, TUPLE,  
SETS, DICTIONARY.

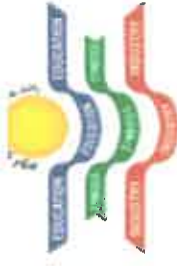
10. PYTHON MODULES

11. PACKAGES

12. FILE HANDLING

13. EXCEPTION HANDLING

14. OOPS PROGRAMMING



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## TRAINING AND PLACEMENT CELL

TRAINING PROGRAMME ON PYTHON PROGRAMME

### RESOURCE PERSON FROM

BYTEXL India Private Limited  
Software Company  
Hyderabad, Telangana



### Department Coordinators

Mr. P. Anil Kumar (CSE)  
Mr. K. Veenanand (ECE)  
Mrs. D. Divya (MECH)  
Mr. M. Tharun (EEE)  
Mr. A.V.V Sai Ram (CIVIL)  
Mrs. S. Mounika (IT)

14-06-2021 to 17-07-2021

**REGISTRATION  
FREE**

**Principal**  
Dr.K.Srinivas M.Tech, PhD





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DEPARTMENT: Training and Placement

DATE: 11-06-2021

ACADEMIC YEAR: 2020-21

ORIGINATOR	Principal
CIRCULATED TO	HODs, Faculty and III B. Tech Students -- All Departments

All the HOD's, staff and students are hereby informed that the training and placement section is conducting training classes on Python Programming for IV Year student's from 14.06.2021 To 17.07.2021. The training schedule is as follows.

**Training schedule:**

**Timings:** 9.15AM to 12.30PM (Forenoon)

1.15 PM to 4.30 PM (Afternoon)

**Venues:**

CSE Seminar Hall      CSE & ECE Batch 1  
ECE Seminar Hall      CSE & ECE Batch 2

HODs are hereby informed to depute their T&P Coordinator & faculty (as per time table) at the venues.

Principal

PRINCIPAL

Devineni Venkata Ramana & Dr. Himasekhar  
MIC College of Technology  
Kanchikacherla, Krishna District



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**Name of the Event: PYTHON PROGRAMMING**

**Date: 20.07.2021**

**Department: EEE**

**Academic Year: 2020-21**

**Topic: PYTHON PROGRAMMING**

**Date of the Event: 14.06.2021-17.07.2021**

**Resource Person:: BYTEXL**

**Name of the coordinator: M.Tharun,  
Asst Professor, Dept of EEE**

**Target Audience: B. Tech EEE branch students**

**Total no of Participants: 85**

#### **OBJECTIVE:**

The course is designed to provide basic knowledge of Python. Python programming is intended for software engineers, system analysts, program managers and user support personnel who wish to learn the Python programming language.

#### **OVERVIEW:**

Python is a widely used general-purpose, high level programming language. It was created by Guido van Rossum in 1991 and further developed by the Python Software Foundation. It was designed with an emphasis on code readability, and its syntax allows programmers to express their concepts in fewer lines of code.

#### **WHY TAKE THIS COURSE:**

Python has been voted for the most favorite programming language of all time. It is undoubtedly beating other programming languages. It has been used for developing almost every kind of applications whether it is web applications or game applications. Numerous programmers have increased the use of Python programming languages and it is certainly used worldwide. Python programmers would be the most demandable in the future of IT industries which makes Python future brighter.





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## LEARNING OUTCOMES

After completing this course the students will be able to demonstrate the knowledge and ability :

- To understand why Python is a useful scripting language for developers.
- To learn how to design and program Python applications.
- To learn how to use lists, tuples, and dictionaries in Python programs.
- To learn how to identify Python object types.
- To learn how to use indexing and slicing to access data in Python programs.

## COURSE OUTLINE:

MODULE	TOPICS
Module 1 - Introduction to Python and Computer Programming	• Python - a fool, not a reptile
	• There is more than one Python
	• Let's start our Python adventure
Module 2 - Data Types, Variables, Basic Input-Output Operations, Basic Operators	• Your first program
	• Python literals
	• Operators - data manipulation tools
	• Variables - data-shaped boxes
Module 3 - Boolean Values, Conditional Execution, Loops, Lists and List Processing, Logical and Bitwise Operations	• Making decisions in Python
	• Python's loops
	• Logic and bit operations in Python
	• Lists - collections of data
	• Sorting simple lists - the bubble sort algorithm
Module 4 - Functions, Tuples, Dictionaries, and Data Processing	• Writing functions in Python
	• How functions communicate with their environment?
	• Returning a result from a function
	• Scopes in Python



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