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MIC College of Technology
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Kanchikacherla - 521180, NTR Dist, A.P, India.
Phones: 08678 - 273535 / 94914 57799 / 73826 16824
E mail: office@mictech.ac.in, Website: www.mictech.edu.in

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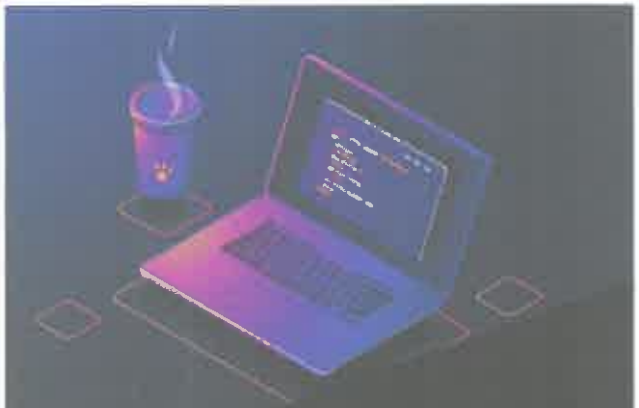
Department of Electrical & Electronics Engineering

1.3.2 Value Added Courses Boucher's, Circulars, Course Modules and Outcomes

A.Y:2022-23

S.No	Name of The Course	Dates	Year	No. of Students Attended
1	Data Structures with Python	28-11-2022 To 21-12-2022	II B.Tech	51
2	JAVA & C with DS	12.04.2023 To 06.05.2023	II B.Tech	51
3	JAVA& CPROGRAMMING	06.02.2023 To 04.03.2023	III B.Tech	106
4	PYTHON PROGRAMMING	12/9/2022 To 1/10/2022	III B.Tech	106
5	DATA STRUCTURES WITH PYTHON & C	22.08.22 To 1.09.22	IV B.Tech	78
6	Python Training	13.07.22 To 06.08.22	IV B.Tech	78
7	TCS NQT	08-08-2022 To 13-08-2022	IV B.Tech	78



RESOURCE PERSON FROM

BYTEXL India Private Limited
Software Company
Hyderabad,Telangana

Department Coordinators

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

Principal

Dr.K.Srinivas
M.Tech, PhD

TOPICS COVERED

1. INTRODUCTION
2. PYTHON DSA
3 BIT MAGIC
4. LISTS
5. RECURSION
6. SEARCHING
7. SORTING
8. HASHING
9. STRINGS
10. LINKED LIST
11. STACK
12. QUEUE
13. DEQUEUE
14. TREES
15. BINARY SEARCH TREE
16. HEAP
17. GRAPHS
18. GREEDY METHOD
19. BACK TRACKING
20. TRIE

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TRAINING & PLACEMENT CELL

DS WITH PYTHON & C TRAINING PROGRAM

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28-11-2023
TO
21-12-2022

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DEPARTMENT: Training and Placement

DATE: 25-11-2022

ACADEMIC YEAR: 2022-23

ORIGINATOR	Principal
CIRCULATED TO	HODs, Faculty and II B. Tech (CSE,ECE,IT,MECH,CIVIL,EEE,AIML,AIDS) Students – All Departments

Training Programme

All the HOD's, staff and students are here by informed that the training and placement section is conducting training classes on **Data Structures with python** for II B.Tech (CSE, ECE, IT, MECH, CIVIL, EEE, AIML, AIDS) student's from 28.11.2022 to 21.12.2022. The training schedule is as follows.

Training schedule:

Timings: 9.15AM to 12.30PM (Forenoon)

1.15 PM to 4.30PM (Afternoon)

Venues:

CSE Seminar Hall	CSE&ECE	Batch1
ECE Seminar Hall	CSE&ECE	Batch2
EEE Seminar Hall	IT, MECH, CIVIL, EEE	
Room no: 1108	AIDS, AIML	

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

Principal

PRINCIPAL
DVR & Dr. HS MIC College of Technology
Kanchikacherla, NTR Dt.
Andhra Pradesh, India - 521180

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Kanchikacherla – 521180, NTR Dist, A.P. India
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Name of the Event: Placement Training Programme **Date:22-12-2022**

Department: Electrical & Electronics Engineering **Academic Year: 2022-23**

Topic: Data Structures with Python

Date of the Event: 28-11-2022 TO 21-12-2022

Resource Person From: ByteXL India Pvt. Ltd, Hyderabad.

Name of the coordinator: M.Tharun
Asst Professor, Training & Placement Coordinator
Department of EEE

Target Audience: B. Tech EEE II YEAR students

Total no of Participants: 51
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

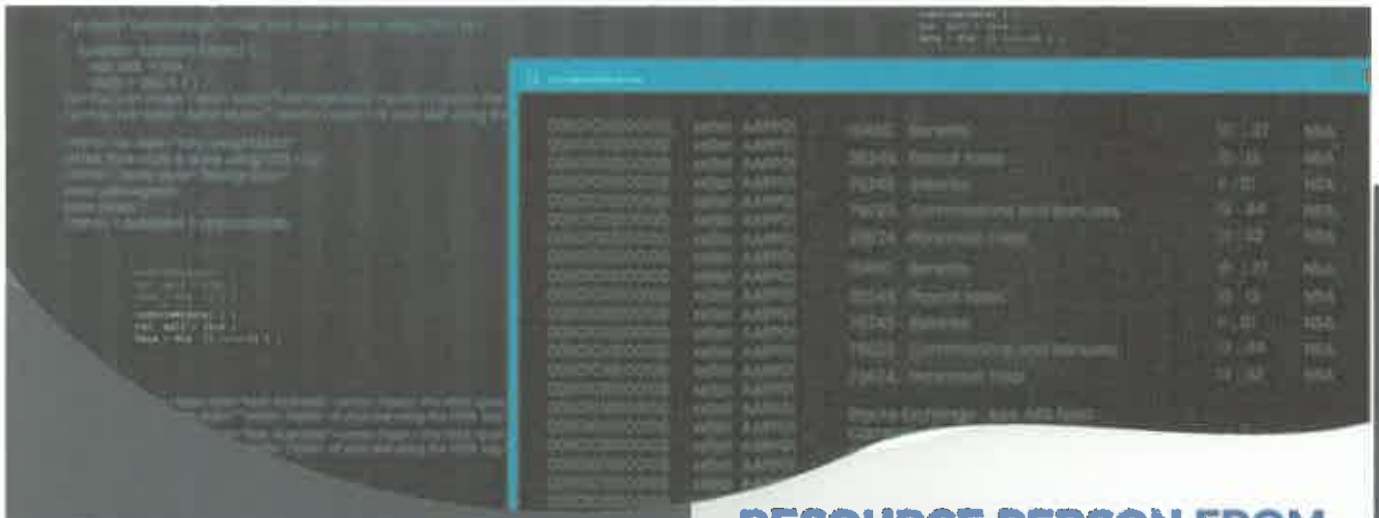
- Be familiar with basic techniques of algorithm analysis
- Be familiar with writing recursive methods
- Master the implementation of linked data structures such as linked lists and binary trees
- Be familiar with advanced data structures such as balanced search trees, hash tables, priority queues and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

Description:

Syllabus for DATA STRUCTURES with Python	
Topic	**Sub Topic**
Python for DS	Revision of Python and Problems on arrays
ASYMTOTIC 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 Sorting Linear Search And Binary Search Bubble Selection Insertion, Quick,Merge,Heap, Radix
DYNAMIC PROGRAMMING & BACK TRACKING	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
GREEDY ALGORITHMS	Introduction to Greedy algorithms, Activity Selection problem, Fractional Knapsack and Problems on Greedy algorithms

Photographs:

Signature of Coordinator **Signature of HOD** **Signature Of Principal**



DVR & Dr. HS

MIC College of Technology

TRAINING & PLACEMENT CELL

JAVA & C WITH DS

12-04-2023 TO 06-05-2023

TOPICS COVERED

1. INTRODUCTION
2. PYTHON DSA
3. BIT MAGIC
4. LISTS
5. RECURSION
6. SEARCHING
7. SORTING
8. HASHING
9. STRINGS
10. LINKED LIST
11. STACK
12. QUEUE
13. DEQUEUE
14. TREES
15. BINARY SEARCH TREE
16. HEAP
17. GRAPHS
18. GREEDY METHOD
19. BACK TRACKING
20. TRIE

RESOURCE PERSON FROM

BYTEXL India Private Limited

Software Company

Hyderabad,Telangana

Department Coordinators

Mr. A.V.V. Sairam (CIVIL)

Mr. M. Tharun (EEE)

Ms. D. Divya (MECH)

Mr. K. Veenanand (ECE)

Mr. P. Anil Kumar (CSE)

Mrs. S. Mounika (IT)

Principal

Dr.T.Vamsee Kiran

M.Tech, PhD

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E mail: office@mictech.ac.in, Website: www.mictech.edu.in

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DEPARTMENT: Training and Placement

DATE: 10-04-2023
ACADEMIC YEAR: 2022-23

ORIGINATOR	Principal
CIRCULATED TO	HODs, Faculty and II B. Tech (CSE, ECE, IT, MECH, CIVIL, EEE, AIML, AIDS) Students – All Departments

Training Programme

All the HOD's, staff and students are here by informed that the training and placement section is conducting technical training classes on Java and C with DS Training for II B. Tech (CSE,ECE,IT,MECH,CIVIL,EEE,AIML,AIDS) student's from 12.04.2023 to 06.05.2023. The training schedule is as follows.

Training schedule:

Timings: 9.15AM to 12.30 PM (Forenoon)

1.15 PM to 4.30 PM (Afternoon)

Venues:

CSE Seminar Hall	CSE&ECE Batch1
ECE Seminar Hall	CSE&ECE Batch2
EEE Seminar Hall	IT, MECH, CIVIL, EEE
Room No: 1108	AIDS, AIML

HODs are here by informed to depute their T&P Coordinator & faculty (as per time table)

Principal

Principal
DVR & Dr. HS MIC College of Technology
Kanchikacherla, N.T.R. Dt.
Andhra Pradesh, India – Pin: 521180

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A Report On Training Programme "JAVA & C with DS"

Date: 08.05.23

Academic Year: 2022-23

Name of the Event :Placement Training Programme

Department : Electrical & Electronics Engineering

Topic : JAVA & C with DS

Dates of the Event : 12.04.2023 to 06.05.2023

Resource PersonFrom : BYTEXL India Pvt Ltd, Hyderabad.

Name of the coordinator : M.Tharun

Asst Professor, Training & Placement Coordinator

Dept. of EEE

Target Audience : B. Tech EEE branch students

Total no of Participants : 51

Objective of the Course :To help students improve their C programming skills and also to help develop logic for the given problem. It will help students to face placement.

Outcome of the Course : Students will be able to develop C,JAVA AND DS programs for the given scenario.

DVR & Dr. HS MIC College of Technology		
15 HOURS Plan for C-Language		Hours
DAY 1	INTODUCTION TO C & DATA TYPES, Operators & CONDITIONAL STATEMENTS	3
DAY 2	LOOPS, JUMPING STATEMENTS and BASICS OF POINTERS	3
DAY 3	Pointers and FUNCTIONS, FUNCTIONS and STORAGE CLASES, Introduction to arrays, ARRAYS & DMA, INTRODUCTION TO STRINGS	3
DAY 4	STRINGS STRUTURS ,ENUMERATORS, TYPEDEF,FILES & PREPROCESSOR DIRECTIVES,	3
DAY 5	PREPROCESSOR DIRECTIVES Continued, COMMAND LINE ARGUMENTS	3

DVR & Dr. HS MIC College of Technology	
Syllabus for DATA STRUCTURES with Python(25Hrs)	
Topic	**Contents**
Python for DS	Revision of Python and Problems on arrays
ASYMTOTIC 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
DYNAMIC PROGRAMMING & BACK TRACKING	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
GREEDY ALGORITHMS	Introduction to Greedy algorithms, Activity Selection problem, Fractional Knapsack and Problems on Greedy algorithms

Photographs:

Signature of Coordinators **Signature of HOD** **Signature Of Principal**
(Dr. T.Vamsee Kiran)

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TRAINING & PLACEMENT CELL

TRAINING PROGRAM ON JAVA & C

RESOURCE PERSON FROM

BYTEXL India Private Limited
Software Company
Hyderabad,Telangana

byte XL

06-02-2023

TO

04-03-2023

REGISTRATION FREE

Department Coordinators

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

Principal
Dr.K.Srinivas
M.Tech, PhD

TOPICS COVERED

1. FUNDAMENTALS IN C
2. I/O LIBRARY FUNCTIONS
3. FUNCTIONS AND POINTERS
4. STORAGE CLASSES
5. ARRAYS
6. COMMAND LINE ARGUMENTS
7. STRUCTURES & UNIONS
8. FILE HANDLING
9. INTRODUCTION TO JAVA & OOPS
10. WORKING WITH JAVA EDITORS
11. CONSTRUCTORS
12. JVM
13. STATIC AND NON STATIC MEMBERS
14. FINAL VARIABLES
15. TYPES OF CLASSES
16. OOPS FUNDAMENTALS
17. MVC AND LCRP
18. GARBAGE COLLECTION
19. ARRAYS
20. JAVA API

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E mail: office@mictech.ac.in, Website: www.mictech.edu.in

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DEPARTMENT: Training and Placement

DATE: 04-02-2023

ACADEMIC YEAR: 2022-23

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

All the HOD's, staff and students are here by informed that the training and placement section is conducting technical training classes on **JAVA and C** for III B.Tech (CSE, ECE & IT,MECH,CIVIL,EEE) student's from 06.02.2023 to 04.03.2023. 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

DVR & Dr. HS MIC College of Technology
Kanchikacherla, NTR Dt.
Andhra Pradesh, India - 521180

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MIC College of Technology
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Kanchikacherla - 521180, NTR Dist, A.P, India.
Phones: 08678 - 273535 / 94914 57799 / 73826 16824
E mail: office@mictech.ac.in, Website: www.mictech.edu.in

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DEPARTMENT OF Electrical & Electronics Engineering
A REPORT ON TRAINING PROGRAMME ON JAVA& C

Date:06.03.23

Academic Year: 2022-23

Event Type	**: PLACEMENT TRAINING PROGRAMME**
Date / Duration	**: 06.02.2023 to 04.03.2023**
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 III YEAR students

Total No ofParticipants: 106

Description:

The Comprehensive Training Program for Java & C 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 JavaFX)

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.

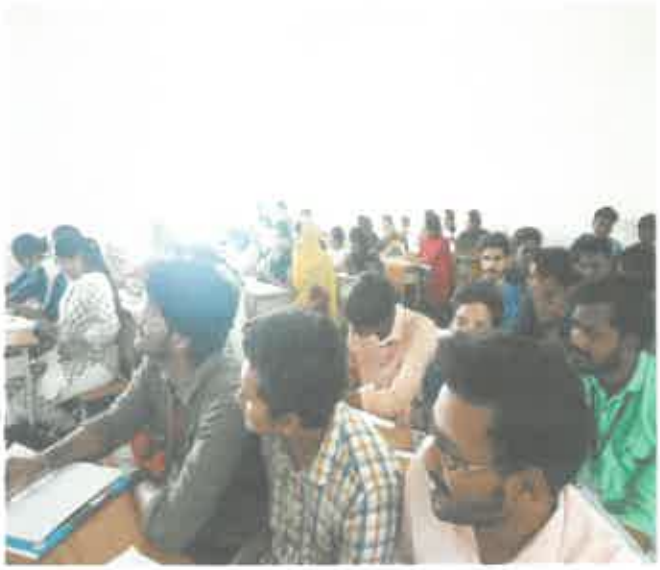
Online Coding Platforms: Introduce participants to popular coding platforms like LeetCode, HackerRank, and Codeforces for further practice.

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:



Signature of Coordinator **Signature of HOD** **Signature Of Principal**

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TRAINING & PLACEMENT CELL

PYTHON TRAINING PROGRAM

RESOURCE PERSON FROM

BYTEXL India Private Limited
Software Company
Hyderabad,Telangana

12-09-2022 to 01-10-2022

REGISTRATION FREE

Department Coordinators

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

Principal

Dr.K.Srinivas
M.Tech, PhD

byte XL

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 & 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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DEPARTMENT: Training and Placement

Date: 8-09-2022

Academic Year: 2022-23

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

Training Programme

All the HOD's, staff and students are here by informed that the training and placement section is conducting technical training classes on python for III B.Tech (CSE, ECE, IT, MECH, CIVIL, EEE) student's from 12-09-22 to 1-10-22. 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 1ECE
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
DVR & Dr. HS MIC College of Technology
Kanchikacherla, NTR Dt.
Andhra Pradesh, India - 521180

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AUTONOMOUS
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Tel.No : 08678-273535/9491457799/7382616824
Website : www.mictech.edu.in

DEPARTMENT OF Electrical & Electronics Engineering

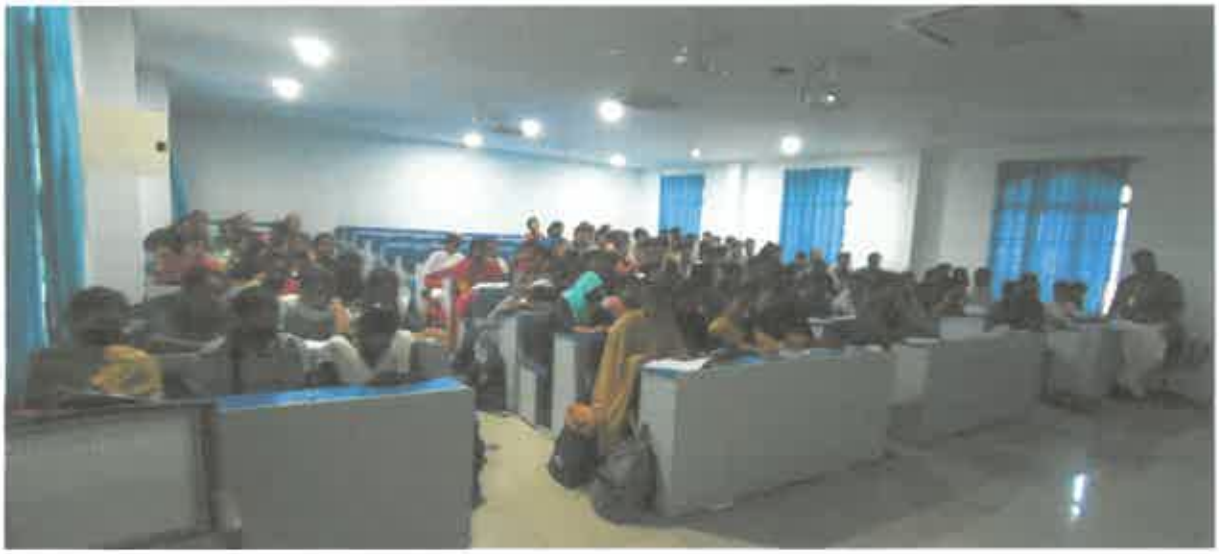
A REPORT ON TRAINING PROGRAMME ON PYTHON

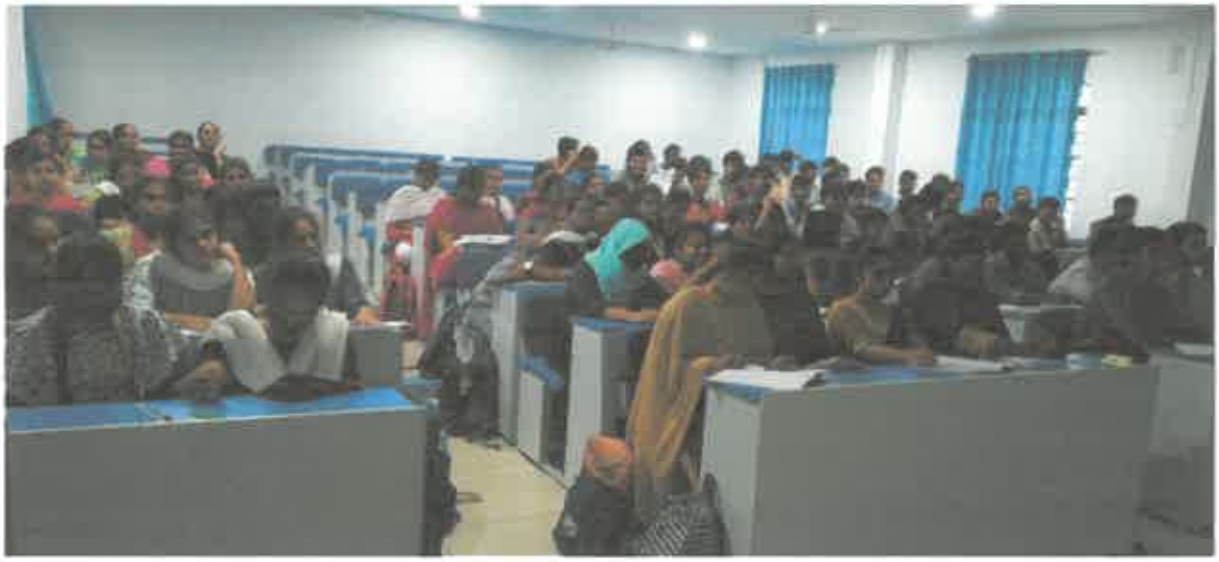
Event Type	**: PLACEMENT TRAINING PROGRAMME**
Date / Duration	**: 12/9/2022 TO 1/10/2022**
Resource Person From	: Byte XL India Private Ltd, Software Company, Hyderabad
Name of Coordinators	: Mr. M.Tharun, Assistant Professor, Department of EEE
Target Audience	: III B.Tech EEE Students
Total no of Participants	: 106
Objective of the event	: The learning objectives of this course are:

- Develop a strong command of Python programming language, mastering its syntax, data structures, and core concepts.
- Acquire skills to efficiently solve real-world problems using Python, including algorithm design and implementation.
- Learn to build diverse applications, from web development and data analysis to automation, leveraging Python's versatility.
- Gain the ability to collaborate on projects, write clean and maintainable code, and contribute effectively to software development teams.

Topics covered : Introduction to Python, Python Basics, Data Structures, Functions, Object-Oriented Programming (OOP), Exception Handling, File Handling, Modules and Packages, Python Standard Library.

Photographs:

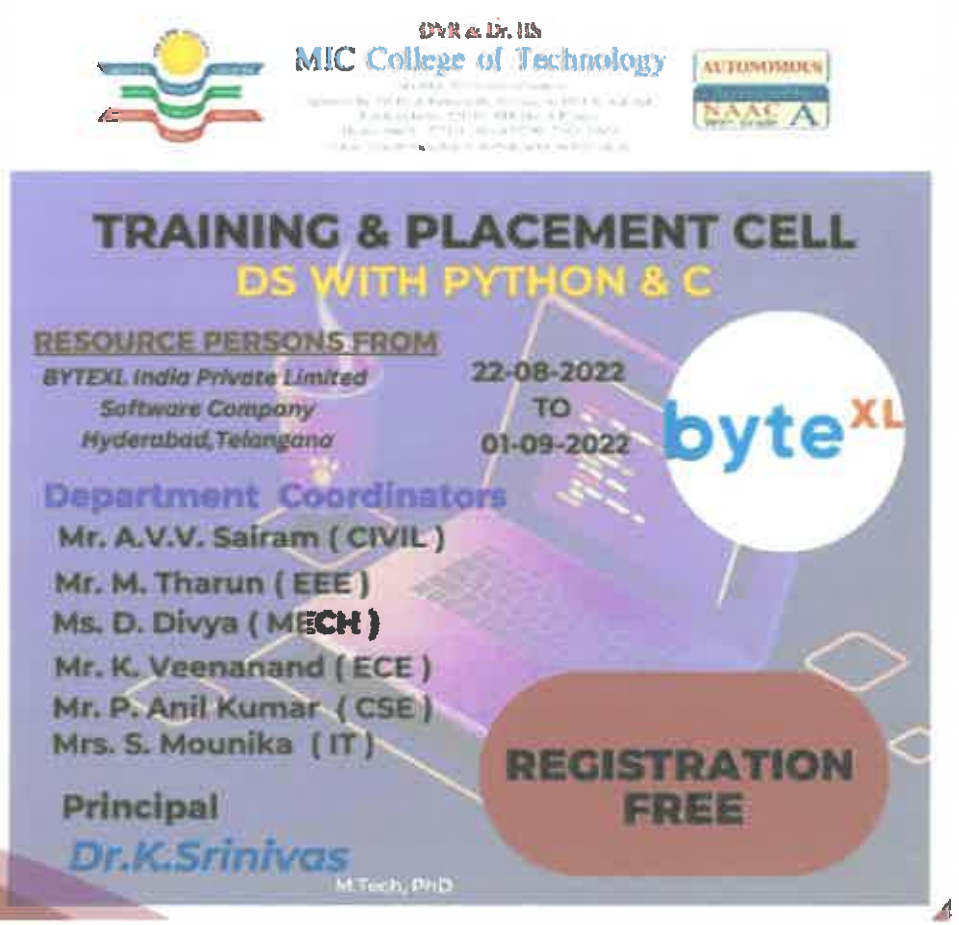




Signature of Coordinator **Signature of HOD** **Signature of Principal**

TOPICS COVERED

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.DEQUEUE
14.TREE
15.BINARY SEARCH TREE
16.HEAP
17.GRAPH
18.GREEDY METHOD
19.BACKTRACKING
20.TRIE



DVR & Dr. HS
MIC College of Technology
ISO 9001:2015 Certified Institute
(Approved by AICTE & Permanently Affiliated to JNTUK, Kakinada)
Kanchikacherla - 521180, NTR Dist, A.P, India
Phones: 08678 - 273535 / 94914 57799 / 73826 16824
E-mail: office@mictech.ac.in, Website: www.mictech.edu.in

AUTONOMOUS
Accredited by NAAC A With Grade

Department: Training and Placement

Date: 20-08-2022
Academic Year: 2022-23

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

Training Programme

All the HOD's, staff and students are here by informed that the training and placement cell is conducting technical training classes on **DATA Structures with Python & C** for IV B.Tech (CSE, ECE, IT, MECH, CIVIL, EEE) student's from 22-08-22 to 1-09-22. All the 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
DVR & Dr. HS MIC College of Technology
Kanchikacherla, NTR Dt.
Andhra Pradesh, India - 521180

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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

A REPORT ON TRAINING PROGRAMME ON DATA STRUCTURES WITH PYTHON & C

Event Type : **PLACEMENT TRAINING PROGRAMME**

Date / Duration : **22.08.22 to 1.09.22**

Resource Person From : Byte XL India Private Ltd,
Software Company, Hyderabad

Name of Coordinator : Mr. M.Tharun
Assistant Professor, T & P Coordinator
Department of EEE

Target Audience : IV B.Tech EEE Students

Total no of Participants : 78

Objective of the event : The learning objectives of this course are:

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

Syllabus for DATA STRUCTURES with Python	
Topic	**Sub Topic**
Python for DS	Revision of Python and Problems on arrays
ASYMTOTIC 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 Queues, Circular Queue , Priority Queue, Dequeue, Queue Implementation
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 (In order, Preorder, Post order, 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, pre Order), 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

DYNAMIC PROGRAMMING & BACK TRACKING	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
GREEDY ALGORITHMS	Introduction to Greedy algorithms, Activity Selection problem, Fractional Knapsack and Problems on Greedy algorithms

C Programming

- Introduction to Programming
- Constants, Variables, and Data Types
- Managing Input and Output Operations
- Operators and Expressions
- Decision Making and Branching
- Decision Making and Looping
- Arrays
- Character Arrays and Strings
- Pointers
- User-defined Functions

Feedback / Suggestions : Students are participated in enthusiastic manner. Planned to organize every year.

Photographs:

Signature of Coordinator **Signature of HOD** **Signature Of Principal**

TOPICS COVERED

1.INTRODUCTION TO SCRIPT

2.INTRODUCTION TO PYTHON

3.DIFFERENT MODELS INPYTHON

4.PYTHON NEW IDEs

5.VARIABLES IN PYHON

6.STRING HANDLING

7.PYTHON OPERATORS &OPERANDS

8.CONDITIONAL STATEMENTS & LOOPS

9.COLLECTIONS 'LISTS, TUPLE, SETS ,DICTIONARY

10.PYTHON MODULES

11.PACKAGES

12.FILE HANDLING

13.EXCEPTION HANDLING

14.OPPS PROGRAMMING

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TRAINING & PLACEMENT CELL

TRAINING PROGRAMME ON PYTHON PROGRAMMING

RESOURCE PERSONS FROM

BYTEXL India Private Limited
Software Company
Hyderabad,Telangana

13-07-2022 TO 06-08-2022

byteXL

Department Coordinators

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

Principal
Dr.K.Srinivas
M.Tech, PhD

REGISTRATION FREE

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Department: Training and Placement

Date: 11-07-2022
Academic Year: 2022-23

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

Training Programme

All the HOD's, staff and students are here by 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 13.7.2022 to 6.8.2022. All the 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

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DVR & Dr. HS MIC College of Technology
Kanchikacherla, NTR Dt.
Andhra Pradesh, India - 521180

DVR & Dr. HS
MIC College of Technology
AUTONOMOUS
(Approved by AICTE & Permanently Affiliated to JNTUK. Kakinada)
Kanchikacherla-521180. NTR Dist. A.P. India.
Tel.No : 08678-273535/9491457799/7382616824
Website : www.micetech.edu.in

A.Y:2022-23
08/08/2022

Name of the Event: Python Training Programme

Date(s) of the Event: 13.7.22 to 6.8.22

Resource Person From: 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: 78

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).

Feedback / Suggestions: Students are participated in enthusiastic manner.

Planned to organize every year.

Photographs:

Program Coordinator **HOD** **Principal**

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E-mail: office@mictech.ac.in, Website: www.mictech.edu.in

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TRAINING & PLACEMENT CELL

TCS NQT TRAINING PROGRAM

RESOURCE PERSONS FROM

BYTEXL India Private Limited
Software Company
Hyderabad,Telangana

8-08-2022
TO
13-08-2022

Department Coordinators

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

REGISTRATION FREE

Principal
Dr.K.Srinivas
M.Tech, PhD

TOPICS COVERED

1. FOUNDATION SECTION

- **VERBAL ABILITY**
- **REASONING ABILITY**
- **NUMERICAL ABILITY**

2. ADVANCED SECTION

- **ADVANCED QUANTITATIVE ABILITY**
- **ADVANCED REASONING ABILITY**
- **ADVANCED CODING ABILITY**

byteXL

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Tel.No : 08678-273535/9491457799/7382616824
Website : www.micceh.edu.in

DEPARTMENT: Training and Placement

DATE: 04-08-2022

ACADEMIC YEAR: 2022-23

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

Training Programme

All the HOD's, staff and students are here by informed that the training and placement cell is conducting technical training classes on **TCS NQT** for IV B.Tech (CSE, ECE, IT, MECH, CIVIL, EEE) student's from 08.08.2022 to 13.8.2022. All the 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.

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Website : www.mictech.edu.in

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

A REPORT ON TRAINING PROGRAMME ON TCS NQT

Event Type : **PLACEMENT TRAINING PROGRAMME**

Date / Duration : 08-08-2022 TO 13-08-2022

Resource Person From : Byte XL India Private Ltd,
Software Company, Hyderabad

Name of Coordinators : Mr.M.Tharun
Assistant Professor, Training & Placement Coordinator, Department of EEE

Target Audience : IV B.Tech EEE Students

Total no of Participants : 78

Objective of the event : The learning objectives of this course are:

Topics covered : **Foundation Section**

- Verbal Ability
- Reasoning Ability
- Numerical Ability

Advance Section

- Advanced Quantitative Ability
- Advanced Reasoning Ability
- Advanced Coding Ability

Outcome of event : Students are familiar with Quantitative Aptitude, Reasoning And Coding Abilities.

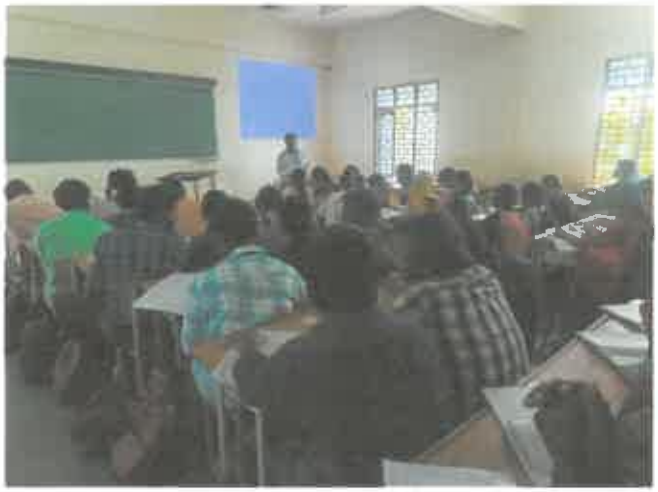
Description / Report on Event : Department of Information technology conducted a Training Programme for the benefit of IV B.Tech IT students on TCS NQT in association with Byte XL India Private Limited, Software Company, and Hyderabad. **TCS NQT has updated its TCS NQT Syllabus 2022 batches. They have introduced a new curriculum for this year hiring. Some new sections have been added in their selection process.**

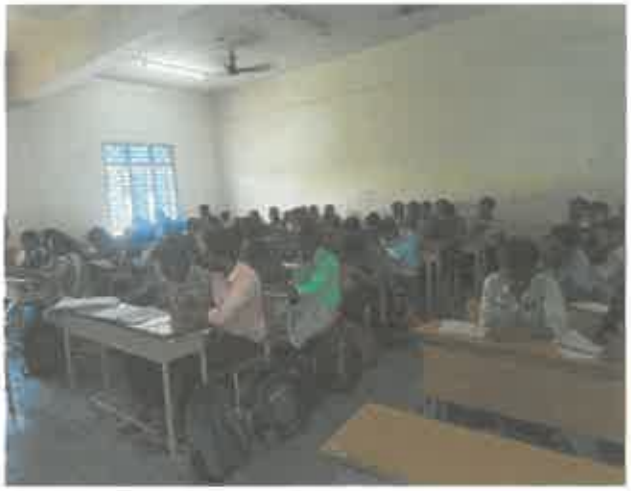
IMPORTANT NOTE:

1. **There will be no negative marking.**
2. **TCS NQT is Non-adaptive this year**
3. **You will not get any extra rough paper in the exam as a calculator and Rough Paper will be available on your Desktop Screen. You are not allowed to move your eyes down while giving the examination.**

Feedback / Suggestions : Students are participated in enthusiastic manner.
Planned to organize every year.

Photographs





Signature of Coordinator **Signature of HOD** **Signature Of Principal**