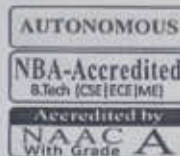




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E mail: office@micttech.ac.in, Website: www.micttech.edu.in



Department of Artificial Intelligence

List of Value Added Courses

A.Y:2022-23

S.No	Name of The Course	Dates	Year	No. of Students Attended
1	Training Programme On DS with Python and C	28-11-2022 to 21-12-2022	II B. Tech AIML III Semester	70
2	Training Programme on JAVA and C with DS	12-04-2023 to 06-05-2023	II B. Tech AIML IV Semester	70

Signature of Coordinator

Signature of HoD



DEPARTMENT: Training and Placement

DATE: 25-12-2022

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 hereby 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, AIDL, AIDS) student's from 28.11.22 to 21.12.22. 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 1
EC Seminar Hall	CSE & ECE Batch 2
EE Seminar Hall	IT, MECH, CIVIL, EEE
Room no: 1108	AIDS, AIDL

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


Principal

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Kanchikacherla, N.T.R. Dt.
Andhra Pradesh, India – Pin: 521180

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

13DEQUE

14 TREE

15 BINARY SEARCH TREE

16 HEAP

17 GRAPH

18 GREEDY METHOD

19 BACKTRACKING

20 TRIE

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Department of AI

DS WITH PYTHON AND C

RESOURCE PERSON FROM

BYTEXL India Private Limited

Software Company

Hyderabad, Telangana



28-11-2022

to

21-12-2022

Coordinator

Mr.G.RAMAMOHANA RAO

Assistant Professor

Department of IT

Principal

Dr.K.Srinivas

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Kanchikacherla, NTR Dt
Andhra Pradesh, India - 521180

Registration
Free



Name of the Event: DATA STRUCTURES

Date: 28-11-2022-21-12-2022

Department: AIML

Academic Year: 2022-23

Topic: DATA STRUCTURES WITH PYTHON

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

Resource Person:

Name of the coordinator: G.RAMAMOohana RAO

Asst Professor, Dept of AI

Target Audience: B. Tech AIML II YEAR students

Total no of Participants: 70

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:

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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
	Introduction To Graphs And Its Applications Graph Terminologies And Types Of Graphs Graph Representation Using Adjacency List And Matrix



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GRAPHS	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 dynamicprogramming
GREEDY ALGORITHMS	Introduction to Greedy algorithms, Activity Selection problem, Fractional Knapsack and Problems on Greedy algorithms

Photographs:




Signature of Coordinators
(Mr.G.Ramamohana Rao)


Signature of HOD
(Mrs.A.Anuradha)


Signature of Principal
(Dr.K.Srinivas)



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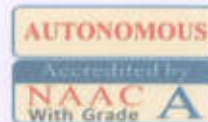
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DEPARTMENT: Training and Placement

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

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

Training Programme

All the HOD's, staff and students are hereby informed that the training and placement section is conducting technical training classes on Data Structures using Java and C Programming Training for II B. Tech (CSE,ECE,IT,MECH,CIVIL,EEE,AIML,AIDS) student's from 12.4.23 to 06.05.23. 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
ECE Seminar Hall
EEE Seminar Hall
Room No: 1108

CSE & ECE Batch 1
CSE & ECE Batch 2
IT, MECH, CIVIL, EEE
AIDS, AIML

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


Principal

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Andhra Pradesh, India – Pin: 521180

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. TRIES



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Department of AI

JAVA AND C WITH DS

RESOURCE PERSON FROM

BYTEXL India Private Limited
Software Company
Hyderabad, Telangana



12-04-2023

to

06-05-2023

Coordinator

Mr.K.Mahanti

Assistant Professor
Department of AI

Principal

Dr.T.Vamsee Kiran

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Andhra Pradesh, India - 521180

M.Tech, Ph.D

Registration
Free



Name of the Event: Java & C with DS

Date: 12-04-2023 to 06-05-2023

Department: AIDS

Academic Year: 2022-23

Topic: JAVA & C with DS

Date of the Event: 12-04-2023 to 06-05-2023

Resource Person: BYTEXL

Name of the coordinator: K.Mahanthi

Asst Professor, Dept of AI

Target Audience: B. Tech AIDS II YEAR students

Total no of Participants: 70

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 problem.

Contents:

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40 HOURS Plan for C-Language

DAY 1	INTRODUCTION TO C & DATA TYPES	3
DAY 2	Operators & CONDITIONAL STATEMENTS	3
DAY 3	LOOPS	3


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DAY 4	JUMPING STATEMENTS and BASICS OF POINTERS	3
DAY 5	Pointers and FUNCTIONS	3
DAY 6	FUNCTIONS and STORAGE CLASSES	3
DAY 7	Introduction to arrays	3
DAY 8	ARRAYS & DM	3
DAY 9	DMA and INTRODUCTION TO STRINGS	3
DAY 10	STRINGS	3
DAY 11	STRUCTURES, ENUMERATORS	3
DAY 12	TYPEDDEF, FILES & PREPROCESSOR DIRECTIVES	3
DAY 13	PREPROCESSOR DIRECTIVES Continued	3
DAY 14	COMMAND LINE ARGUMENTS	3

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DVR & Dr. HS MIC College of Technology
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	Introduction About Linked Lists, All Types(Single) And Its Operations


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LINKED LISTS	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
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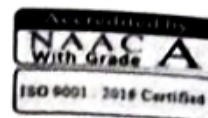
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Photographs:




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(K. Mahanthi)


Signature of HOD
(Mrs.A.Anuradha)


Signature of Principal
(Dr.T.Vamsee Kiran)